

**SITE INVESTIGATION**



**TOWN OF JACKSON GARAGE  
3685 DIVISION ROAD  
JACKSON, WISCONSIN**

**WDNR BRRTS #~~02-60-513564~~  
WDNR FID# 267111350  
COMM #53037-9705-85**

02-67-533502

March 14, 2007


Prepared For:

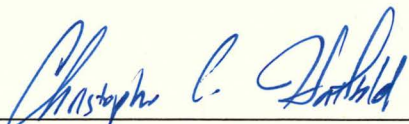
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Project Number: TOJ 01-2200-2830

  
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## 1.0 EXECUTIVE SUMMARY

The Town of Jackson (the Town) garage is located at 3685 Division Road, Jackson, Wisconsin (the Site). The Site has been used by the Town since at least the mid-1960s for storage, maintenance, and refueling of Town vehicles and equipment. The Wisconsin Department of Natural Resources (WDNR) also used the Site during the past to refuel fleet vehicles.

During 1986, a 500-gallon gasoline underground storage tank (UST) was removed from the Site. This UST was registered to and reportedly used by the WDNR between the mid-1960s and 1969. A closure assessment was not required, and soil sampling was not conducted beneath the WDNR's tank during its removal. During August 1993, a 550-gallon UST and a 1000-gallon diesel fuel UST were removed from the Site. These USTs were used by the Town to fuel vehicles and equipment. No closure assessment or soil sampling was completed during the removal of the USTs.

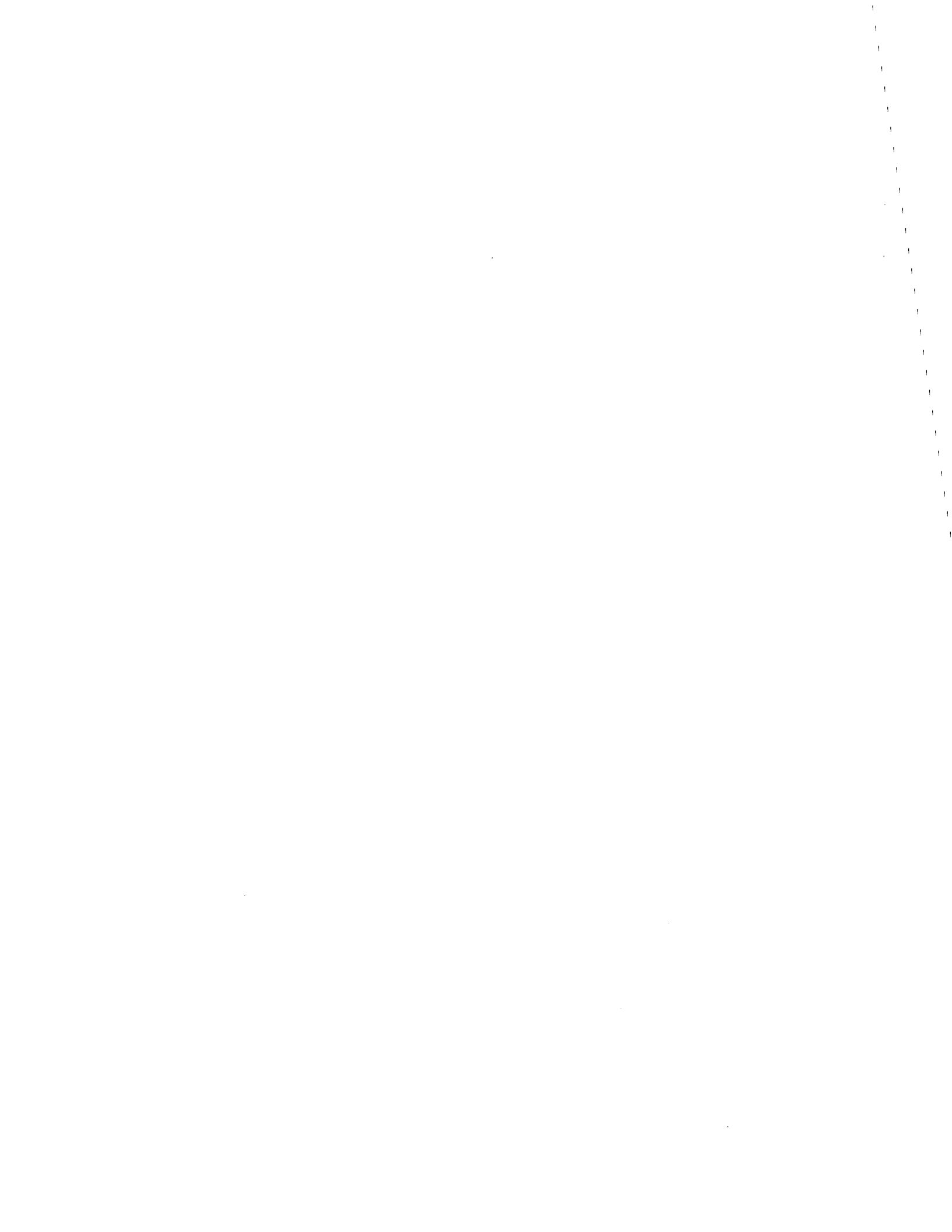
During fall 2003, petroleum odors were noted in the Bourgeois Property water supply well, which is a shared well that also serves the Laverenz residence at 3665 Division Road. The Bourgeois/Laverenz private water well was sampled during November and December 2003 to evaluate water quality. Various volatile organic compounds were detected in the well.

During November 2004, the Town retained Northern Environmental Technologies, Incorporated (Northern Environmental) to perform a site investigation. Northern Environmental submitted a site investigation workplan to the WDNR during December 2004. Later that month, an investigation consisting of the installation of one borehole and one monitoring well was performed to determine if groundwater had been affected by the petroleum release and to provide hydrogeologic information. During 2005, an additional eight boreholes and six monitoring wells were installed at and adjacent to the Site.

Based on the investigation results, approximately 2 to 8.5 feet of unconsolidated sediments overlies dolomite bedrock at the Site. No soil was detected with concentrations of petroleum exceeding the Wisconsin Administrative Code generic residual contaminant levels.

Groundwater was observed approximately 9.5 to 22 feet below grade and flows generally west-southwest across the Site. In addition, groundwater with petroleum concentrations exceeding the enforcement standard was present in monitoring well MW1, MW3, and MW4. Groundwater contamination has migrated to the west-southwest to the Bourgeois Property.

Northern Environmental believes that the extent of petroleum-contaminated soil and groundwater is defined and recommends additional groundwater monitoring to document contaminant trends. If stable and/or decreasing contaminant trends are observed, Northern Environmental will request case closure on behalf of the Town. Case closure will likely include registration of the Site in the WDNR Geographic Information System database.



## 2.0 BACKGROUND INFORMATION

The Town of Jackson (the Town) garage is located at 3685 Division Road, Jackson, Wisconsin (the Site). The Site is in the northeast quarter of the northeast quarter of Section 21, Township 10 north, Range 20 east, Town of Jackson, Wisconsin as shown in Figure 1 (USGS, 1994). The Site has been used by the Town since at least the mid-1960s for storage, maintenance, and refueling of town vehicles and equipment. The Wisconsin Department of Natural Resources (WDNR) also used the Site during the past to refuel fleet vehicles. The Site layout is shown in Figure 2.

Three underground storage tanks (USTs) are known to have been used at the Town property (Northern Environmental, 2004). During 1986, a 500-gallon gasoline UST was removed (COMM, 2006). This UST was registered to and used by the WDNR between the mid-1960s and at least 1969 (Schwengel, 2004). During August 1993, a 550-gallon gasoline UST and a 1000-gallon diesel fuel UST were removed from the Town property (COMM, 2006). These USTs were used by the Town to fuel vehicles and equipment. The approximate location of the USTs is shown in Figure 2. No USTs remain at the Site

During fall 2003, petroleum odors were noted in the Bourgeois Property water supply well, which is a shared well that also serves the Laverenz residence at 3665 Division Road. The Bourgeois/Laverenz private water well was sampled during November and December 2003 to evaluate water quality. Various volatile organic compounds (VOCs) were detected in the well, with concentrations of benzene and methyl-tert-butyl-ether (MTBE) reported above the Chapter NR 809, Wisconsin Administrative Code (NR 809, Wis. Adm. Code) maximum contaminant level (MCL) and NR140, Wis. Adm. Code enforcement standard (ES).

During December 2003, the Town property private water supply well was sampled for VOCs. Various petroleum-related VOCs were detected. MTBE was detected above the ES and MCL. Benzene and 1,2-dichloroethane was detected above the NR 140, Wis. Adm. Code preventive action limit (PAL).

During April and May 2004, the water supply wells at the Town property and the Bourgeois/Laverenz residences were replaced. The WDNR collected water samples from five neighboring water supply wells and the three newly installed replacement wells during May 2004. Low concentrations of gasoline-related compounds were detected in the Bourgeois and Laverenz replacement wells. The concentration of detected petroleum compounds did not exceed the MCL, ES, or PAL.

During August 2004, the WDNR retained Moraine Environmental, Inc. to collect soil samples from six boreholes (B1 through B6) installed near the former Town USTs. One soil sample was collected from each borehole and submitted for laboratory analysis. A soil sample collected within 1 foot of the bedrock surface in B-2 contained 260 milligrams per kilogram (mg/kg) diesel range organics (DRO). Soil samples from the remaining five boreholes did not contain detectable concentrations of petroleum compounds. Based on the additional results, a petroleum release was confirmed and the extent of petroleum compounds in soil was defined.

The WDNR subsequently required an investigation to define the extent of the release and possible corrective action to restore the environment. During October 2004, the Town was granted a waiver from the three consultant bid process by the Wisconsin Department of Commerce (COMM) and retained Northern Environmental Technologies, Incorporated (Northern Environmental) to perform the site investigation. During December 2004, Northern Environmental prepared and submitted the Site investigation workplan to the WDNR (Northern Environmental, 2004)





### **3.0 DESCRIPTION OF INVESTIGATION**

The methods used to define the extent of released petroleum in soil and groundwater are briefly described below. A list of project contacts is included in Appendix A. Investigative methods used to sample and analyze soil and groundwater are described in detail in Appendix B.

#### **3.1 Soil**

During December 2004, Northern Environmental collected soil samples from borehole (B7). The borehole was drilled and continuously sampled from the ground surface to the bedrock surface (up to 6.5 feet below grade [fbg]) by Badger State Drilling (BSD). On April 2005, Northern Environmental collected soil samples from four additional boreholes (B8 through B11). The boreholes were drilled and continuously sampled from the ground surface to the bedrock surface (up to 4 fbg) by Environmental Drilling Services (EDS).

During September 2005, Northern Environmental collected soil samples from two soil boreholes (B12 and B13) to determine if released petroleum fuel in soil extended onto the adjacent property. Probe Technologies, Incorporated completed the boreholes using direct-push soil sampling (GeoProbe®). During the installation of borehole B12, the top of a UST was encountered. Borehole B13 was drilled adjacent to the UST and continuously sampled from the ground surface to the bedrock surface (4.5 fbg). Also during September 2005, two additional boreholes (B14 and B15) were drilled using air-rotary and split-spoon sampling techniques by EDS. Borehole locations are illustrated in Figure 2. WDNR borehole logs and abandonment forms are included in Appendix C.

Soil samples were examined, described, and field screened for VOCs using a photoionization detector (PID). Based on field screening results, samples were submitted under chain-of-custody for analysis by Synergy Environmental Lab, Incorporated. The samples were laboratory analyzed for DRO, gasoline range organics (GRO), VOCs, and total lead.

#### **3.2 Groundwater**

During December 2004, BSD installed groundwater monitoring well MW1 in borehole B7 to determine if released petroleum was present in groundwater at the Site. EDS installed wells MW2 through MW5 in boreholes B8 through B11, respectively, during April 2005 to evaluate groundwater quality, flow direction, and horizontal hydraulic gradient. EDS installed wells MW6 and MW7 in boreholes B14 and B15, respectively, during September 2005. All groundwater monitoring wells were completed into bedrock. WDNR monitoring well construction forms are included in Appendix C.

Before well purging and sampling, Northern Environmental personnel measured the depth to water in all the monitoring wells to evaluate groundwater flow direction and horizontal hydraulic gradient. The depth-to-water measurements were converted to elevations that are relative to mean sea level. The monitoring wells were also surveyed, developed, and purged in accordance with state requirements (NR 141, Wis. Adm. Code) and WDNR guidelines (WDNR, 1996) before collecting water samples for laboratory analyses.

MW1 was sampled on January 7, 2005 and laboratory analyzed for VOCs, polynuclear aromatic hydrocarbons (PAHs), and dissolved lead by a WDNR-certified laboratory. MW1 through MW5 were sampled on April 6, 2005 and laboratory analyzed for petroleum volatile organic compounds (PVOCs), VOCs, and/or dissolved lead. On February 2, 2006, MW1 through MW5 were sampled for PVOCs and naphthalene. MW1, MW6, and MW7 were sampled for VOCs and dissolved lead.



#### 4.0 APPLICABLE CLEANUP CRITERIA

The WDNR action level for soil used to trigger a site investigation is 10 mg/kg DRO or GRO (WDNR, 1995). The DRO and GRO concentrations detected in samples collected at the Site exceeded this “trigger” level. The Wisconsin Spill Law (NR 706, Wis. Adm. Code) requires the owner or operator of the facility to report the release to the WDNR and to investigate and remediate the release, if necessary. The release was reported to the WDNR on October 7, 2004 (WDNR, 2007).

##### 4.1 NR 720, Wis. Adm. Code Residual Contaminant Levels (RCLs)

In compliance with state regulations, the following generic RCLs for unsaturated petroleum-contaminated soil (NR 720, Wis. Adm. Code) apply.

▲	100 mg/kg GRO/DRO for sediments having hydraulic conductivity greater than $1 \times 10^{-6}$ centimeters per second (cm/sec)
▲	250 mg/kg GRO/DRO for sediments having hydraulic conductivity less than $1 \times 10^{-6}$ cm/sec
▲	Benzene 5.5 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ )
▲	1,2-dichloroethane 4.9 $\mu\text{g}/\text{kg}$
▲	Ethylbenzene 2900 $\mu\text{g}/\text{kg}$
▲	Toluene 1500 $\mu\text{g}/\text{kg}$
▲	Xylenes 4100 $\mu\text{g}/\text{kg}$

##### 4.2 S. NR 746.06, Wis. Adm. Code Table 1 Values

In compliance with section NR 746.06, Wisconsin Administrative Code (s. NR 746.06, Wis. Adm. Code), the following risk screening criteria as indicators of residual petroleum product in soil pores also apply at the Site (Table 1 values).

▲	Benzene	8.5 mg/kg
▲	1,2 dichloroethane	0.6 mg/kg
▲	Ethylbenzene	4.6 mg/kg
▲	Toluene	38 mg/kg
▲	Xylenes	42 mg/kg
▲	1,2,4 trimethylbenzene	83 mg/kg
▲	1,3,5 trimethylbenzene	11 mg/kg
▲	Naphthalene	2.7 mg/kg

##### 4.3 S. NR 746.06, Wis. Adm. Code Table 2 Values

Risk screening criteria outlined in s. NR 746.06, Wis. Adm. Code defines direct-contact hazards (Table 2 values). The risk criteria states that benzene or 1,2 dichloroethane concentrations in soil within 4 feet of the ground surface cannot exceed 1.1 or 0.54 mg/kg, respectively, without requiring active remediation and/or a impermeable ground surface cap.

##### 4.4 NR 140, Wis. Adm. Code Groundwater Quality Standards

Public health-related groundwater quality standards are set forth by NR 140, Wis. Adm. Code. Standards are listed for substances of public health concern (defined as substances having carcinogenic, mutagenic, or teratogenic properties or interactive effects) and substances of public welfare concern (defined as having a



negative aesthetic value, but with little threat to human health). Two levels of standards are listed, the PAL and the ES. The ES represents a concentration above which action generally must be taken to improve the quality of groundwater. The PAL represents a lower concentration (usually 10 to 20 percent of the ES) above which groundwater quality should be monitored.

## **5.0 RESULTS OF INVESTIGATION**

### **5.1 Hydrogeology**

Native sediments consist of till from the Waubeka Member of the Holy Hill Formation. The Waubeka Member deposited by the readvancing Lake Michigan Lobe (Mickelson, et al., 1984). Depth to bedrock at the Site is approximately 2 to 8.5 fbg. The stratigraphic units are illustrated in Figure 3 and 4 using geologic cross section along line A to A' and line B to B' respectively, as shown on Figure 2. The units are described below in descending order.

**TILL:** The till consists of discontinuous units of yellowish-brown to brown silty sand and sandy clay. Dolomite cobbles were observed in the till near the bedrock surface.

**BEDROCK:** The bedrock consists of a tan dolomite.

Shallow groundwater elevation is often a subdued expression of local topography. Wetlands, rivers, and lakes typically act as groundwater discharge areas. Local highlands typically act as recharge areas. Nearby cultural influences such as buried sewers and utilities can alter local natural groundwater flow. The observed water table elevation data are provided in Table 1. The water table is approximately 10 to 20 fbg and flows west across the Site with a horizontal hydraulic gradient of 0.04 foot per foot toward an intermittent creek. The intermittent creek flows toward the north into Cedar Creek approximately 2000 feet northwest of the Site. The groundwater flow on July 12, 2005 and February 2 and 7, 2006 are illustrated in Figures 5, 6, and 7 respectively.

Residents in the area obtain potable water from private water-supply wells. The locations of in-use private supply wells adjacent to the Site are shown in Figure 2. All of their wells are cement-cased to at least 223 fbg.

### **5.2 Soil**

Low to no PID responses (i.e., 2 instrument units as isobutylene or less) or petroleum odors were detected in samples collected from the boreholes. Petroleum-contaminated soil was not detected in laboratory analyzed soil samples. Laboratory reports and chain-of-custody records are included in Appendix D.

### **5.3 Groundwater**

Groundwater at the Site is present within fractured Niagaran dolomite bedrock. Groundwater flow within a fractured bedrock aquifer can result in a flow direction different than the hydraulic gradient. However, groundwater flow between the Town property and the Bourgeois property boundary have varied by less than 30 degrees and have a consistent west to west-southwest flow across the Site, which mimics regional groundwater flow in the area (Young, et al., 1980).



Based on the analytical results, petroleum concentrations exceeding the NR 140, Wis. Adm. Code ES are present in monitoring wells MW1, MW3, and MW4. No VOCs, PVOCs or PAHs were detected above the NR 140, Wis. Adm. Code PAL in the other monitoring wells. Groundwater quality results are summarized in Tables 2 and 3. The estimated vertical and horizontal extent of released petroleum in groundwater is shown in Figures 3 and 4, respectively. Laboratory reports and chain-of-custody records are included in Appendix E. Previously reported sample results from the former and replacement private supply wells on Site and adjacent sites are summarized on Table 4.

#### **5.4 Contaminant Source and Migration Pathways**

Three USTs were formerly used at the Site to store gasoline or diesel fuel. Based upon the results of the site investigation, petroleum was released from the USTs. Significant surface spillage of petroleum was not apparent. Released petroleum migrated downward through soil and bedrock to the groundwater table. Dissolved petroleum migrated via groundwater flow. Additional dissolved contaminant migration may have been caused by groundwater withdrawal from the former private water supply wells that were only cased up to 6 fbg and extended to approximately 86 fbg. The replacement private supply wells are all cased and sealed to at least 223 fbg. Therefore, the new wells are unlikely to provide a migration pathway for contaminated groundwater. Utility corridors are potential migration pathways for petroleum contamination. However, no buried utilities are present at the Site.

### **6.0 RISK SCREENING**

The Site was evaluated by Northern Environmental using risk criteria in accordance with s. NR 746.06, Wis. Adm. Code. Based on a risk assessment to measure the environmental, safety, and health risks associated with the petroleum release, the following conclusions are made.

- ▲ Private potable wells that attained or exceeded the PAL were replaced with deeper cased wells (at least 223 fbg). Petroleum concentrations were not detected in the replacement wells, except for trace levels of toluene (less than 36 ppb). Former and replacement well locations are shown in figure 2.
- ▲ Bedrock was encountered between 2 and 8.5 fbg at the Site. Petroleum contaminated soil was only encountered directly below the former UST system and extended to the bedrock surface. Petroleum-contaminated soil was not encountered in any other borehole completed at the Site. Released petroleum is also present in the shallow bedrock aquifer beneath and downgradient of the former USTs.
- ▲ No release of a petroleum product to the soil or groundwater at the site has occurred since the USTs were removed during 1993.
- ▲ No utility corridor exists at the Site for migration of petroleum product contamination along which vapors, free product or contaminated water may flow.
- ▲ Petroleum contamination in soil was not present, except directly below the former USTs. Groundwater was encountered at least 15 fbg in monitoring wells completed near existing houses. Therefore there is no risk of migration of petroleum vapors or contaminated groundwater into building foundation drain tile, sumps, or other points of entry into a basement or other enclosed structure.





- ▲ Petroleum concentrations exceeding the NR 140, Wis. Adm. Code ES were detected in monitoring wells MW1, MW3, and MW4. No petroleum concentrations exceeding the NR 140, Wis. Adm. Code ES were detected in the remaining wells. The extent of contaminated groundwater in the shallow aquifer has been defined.

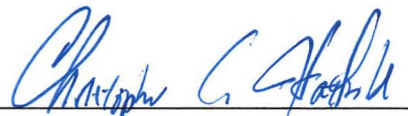
## 7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the site investigation results, Northern Environmental believes that the extent of petroleum contamination in soil and groundwater is defined. Petroleum-contaminated soil is limited to the immediate vicinity of the USTs. In addition, groundwater with petroleum concentrations exceeding the ES was present in monitoring wells MW1, MW3, and MW4.

Northern Environmental recommends additional groundwater monitoring to document long-term dynamics of the contamination plume and contaminant trends. If stable and/or decreasing contaminant trends are observed, Northern Environmental will request case closure on behalf of Town of Jackson. Case closure will likely include registration of the Site in the WDNR Geographic Information System database for sites with contaminated soil and/or groundwater.

## 8.0 PROFESSIONAL CERTIFICATION

“I, Christopher C. Hatfield, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.”

  
\_\_\_\_\_  
Christopher C. Hatfield  
Hydrogeologist

3/15/07  
\_\_\_\_\_  
Date

## 9.0 REFERENCES

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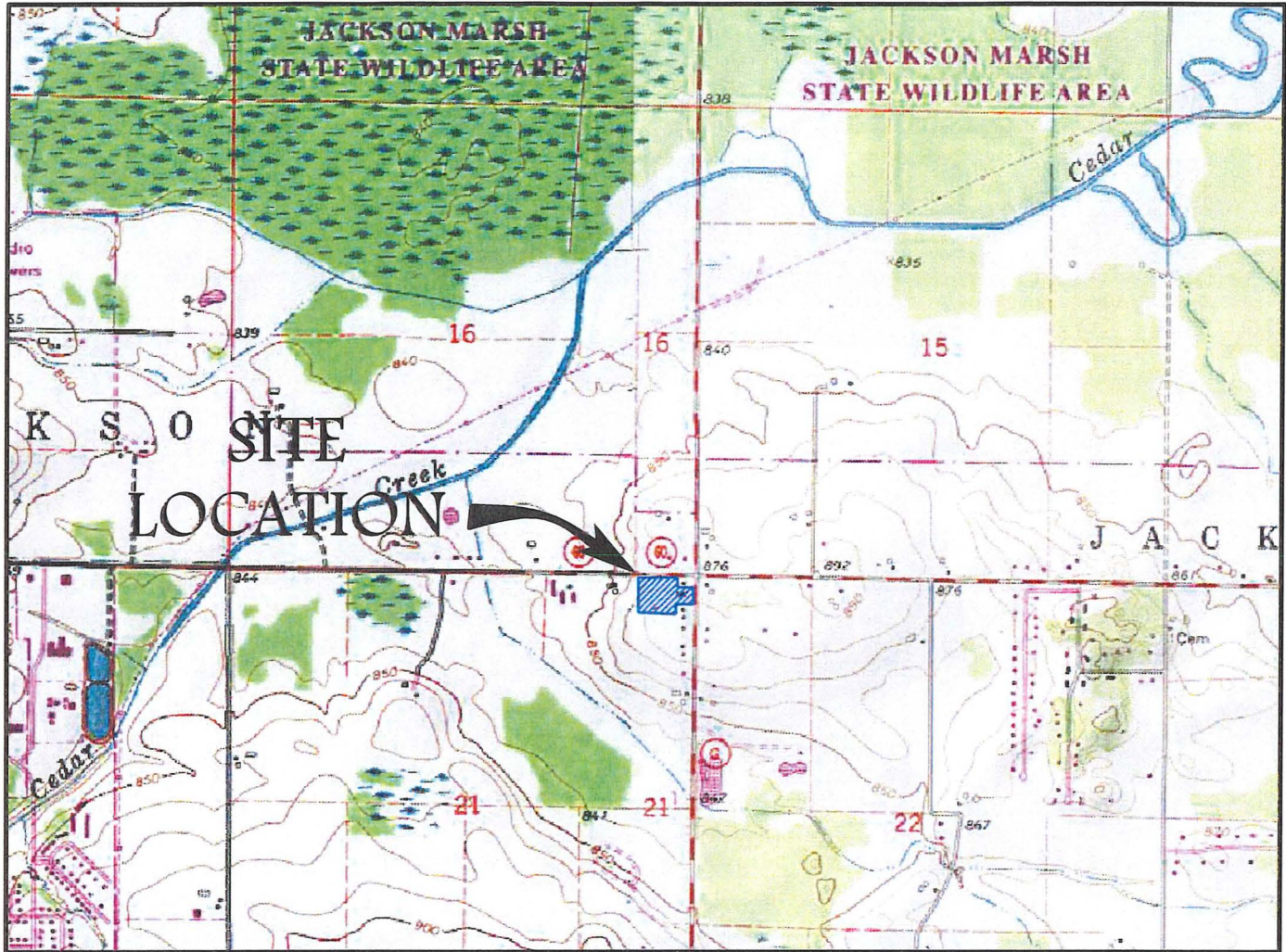
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<http://botw.dnr.state.wi.us/botw/Welcome.do>

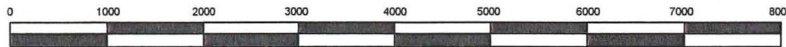
Young, H. L. and W. G. Batten (U.S. Geological and Natural History Survey), *Groundwater Resources and Geology of Wisconsin and Ozaukee Counties, Wisconsin*, Information Circular No. 38, February 1980.





SCALE IN FEET

1" = 2000'



CONTOUR INTERVAL 10 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION

BASE MAP SOURCE: USGS 7.5 MINUTE QUADRANGLE, FIVE CORNERS, WISCONSIN, 1994 (NATIONAL GEOGRAPHIC HOLDINGS, INC.)

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WISCONSIN ▲ MICHIGAN ▲ ILLINOIS ▲ IOWA

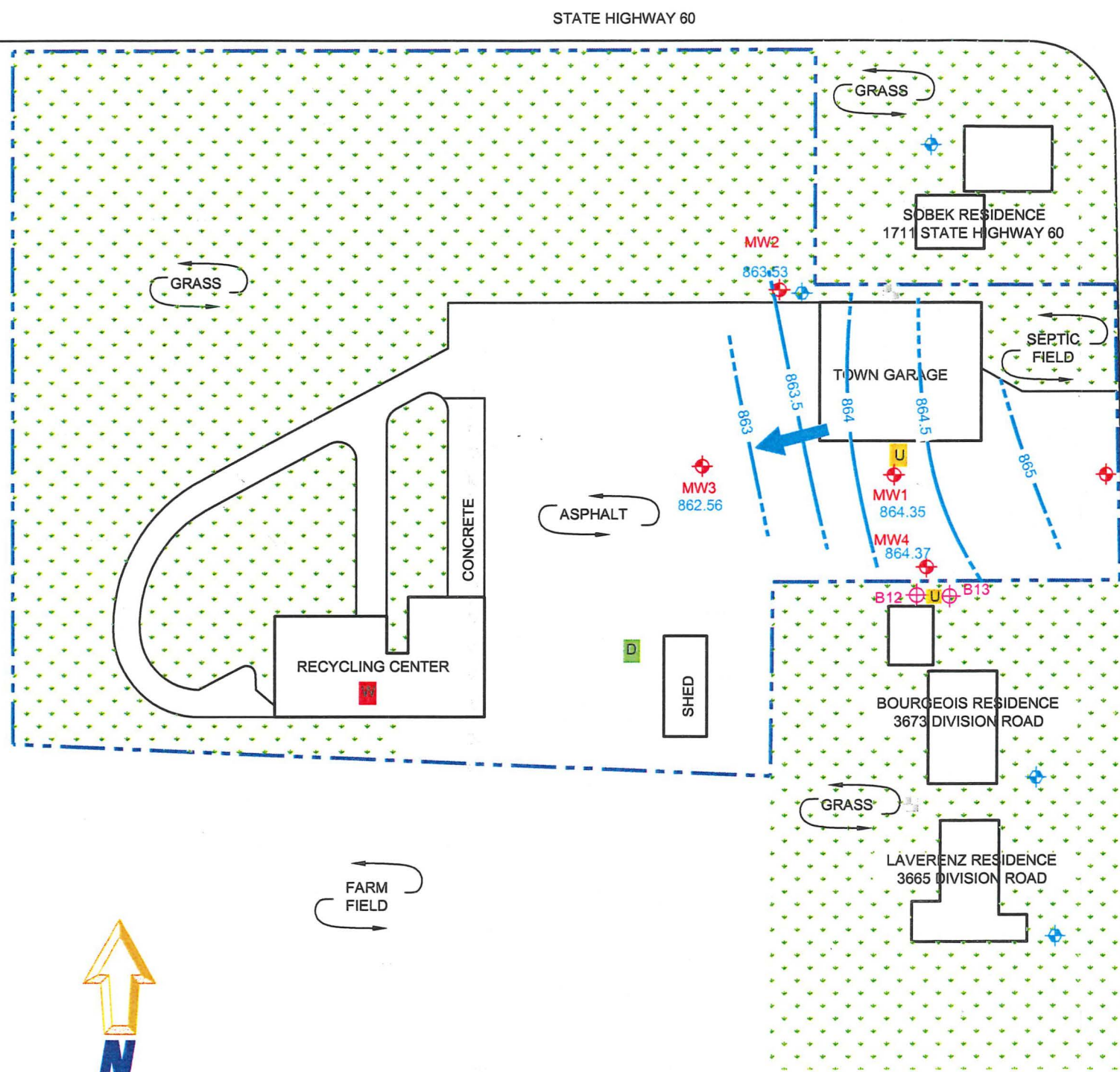
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## SITE LOCATION & LOCAL TOPOGRAPHY

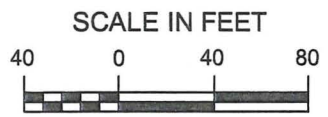
TOWN OF JACKSON GARAGE  
3685 DIVISION ROAD  
JACKSON, WISCONSIN

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- LEGEND**
- ◆ B7/MW1 864.35 MONITORING WELL LOCATION & IDENTIFICATION WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
  - ◆ ACTIVE WATER SUPPLY WELL
  - ◆ FORMER WATER SUPPLY WELL (LOCATIONS APPROXIMATE)
  - ▲ USGS BENCHMARK ELEVATION 876.06 (FEET ABOVE MEAN SEA LEVEL)
  - 864 GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (DASHED WHERE INFERRED)
  - GENERAL GROUNDWATER FLOW DIRECTION
  - PROPERTY BOUNDARY
  - WASTE OIL AST
  - DIESEL FUEL AST
  - FORMER UST AREA



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**GROUNDWATER ELEVATION**  
 JULY 12, 2005

WISCONSIN ▲ MICHIGAN ▲ ILLINOIS ▲ IOWA

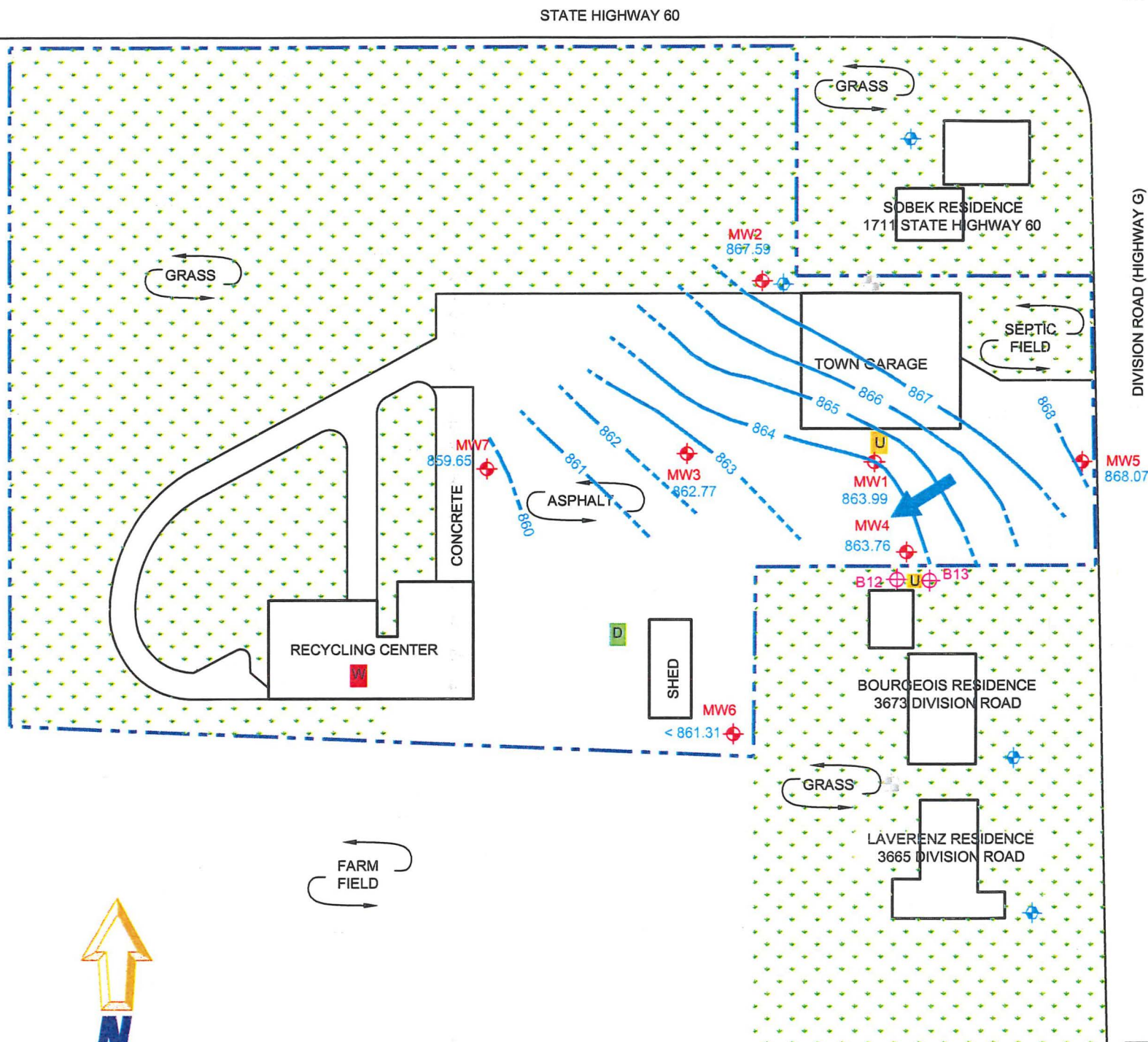
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 JACKSON, WISCONSIN

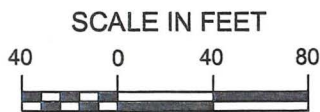
DATE: 01/08/07	DRAWN BY: BMP	TASK NUMBER: 100	PROJECT NUMBER: TOJ 01-2200-2830	FIGURE 5
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- LEGEND**
- ◆ **B7/MW1** 863.99 ◆ MONITORING WELL LOCATION & IDENTIFICATION WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
  - ◆ ACTIVE WATER SUPPLY WELL
  - ◆ FORMER WATER SUPPLY WELL (LOCATIONS APPROXIMATE)
  - ▲ USGS BENCHMARK ELEVATION 876.06 (FEET ABOVE MEAN SEA LEVEL)
  - 864 - - - GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (DASHED WHERE INFERRED)
  - ➔ GENERAL GROUNDWATER FLOW DIRECTION
  - - - PROPERTY BOUNDARY
  - WASTE OIL AST
  - DIESEL FUEL AST
  - FORMER UST AREA



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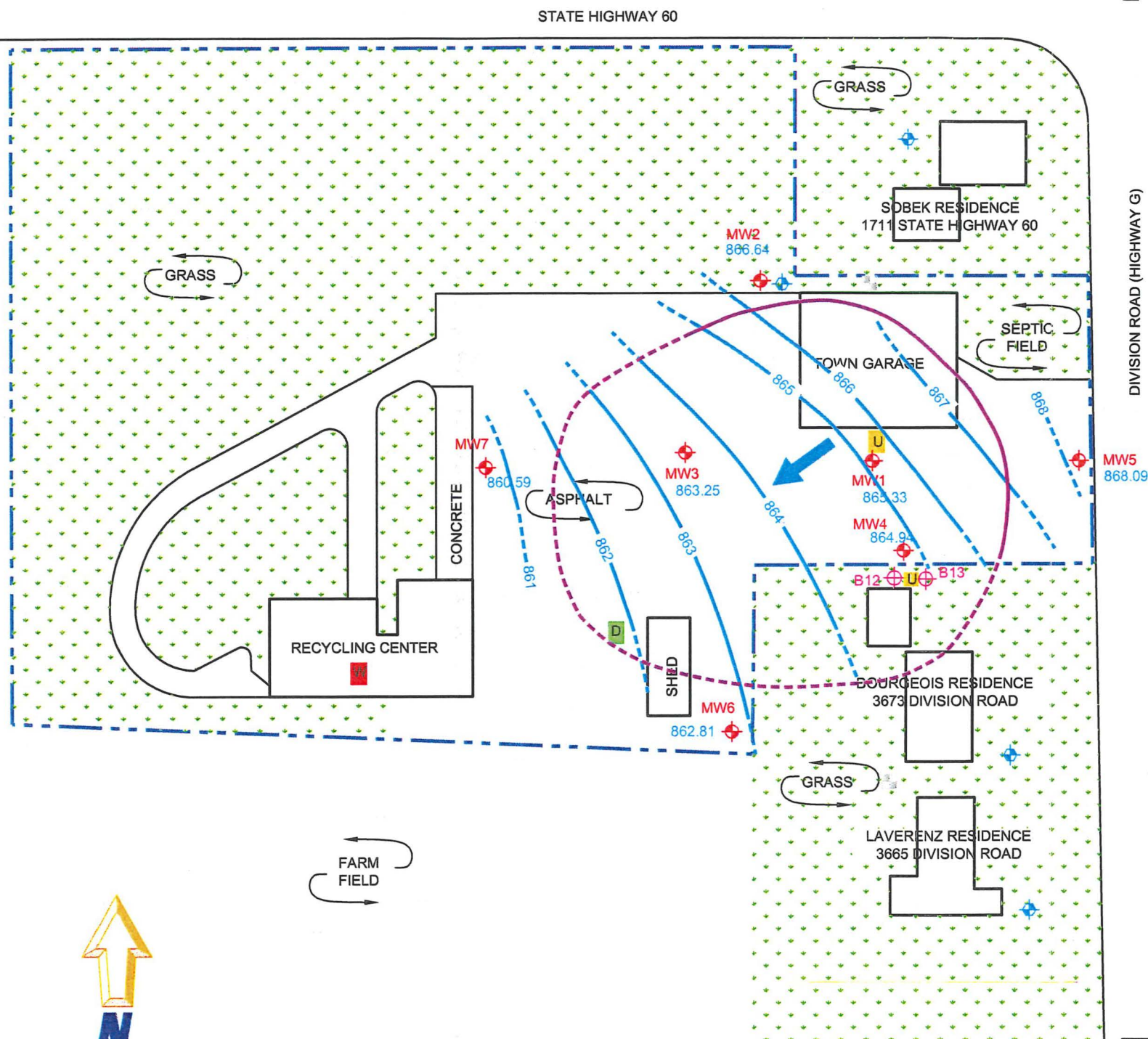
GROUNDWATER ELEVATION  
 FEBRUARY 2, 2006

WISCONSIN ▲ MICHIGAN ▲ ILLINOIS ▲ IOWA

TOWN OF JACKSON GARAGE  
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**LEGEND**

- B7/MW1 ◆ MONITORING WELL LOCATION & IDENTIFICATION WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- ◆ ACTIVE WATER SUPPLY WELL
- ◆ FORMER WATER SUPPLY WELL (LOCATIONS APPROXIMATE)
- ▲ USGS BENCHMARK ELEVATION 876.06 (FEET ABOVE MEAN SEA LEVEL)
- 864 - - - GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (DASHED WHERE INFERRERD)
- EXTENT OF GROUNDWATER WITH BENZENE CONCENTRATIONS EXCEEDING THE NR140 ENFORCEMENT STANDARDS
- ➔ GENERAL GROUNDWATER FLOW DIRECTION
- - - PROPERTY BOUNDARY
- W WASTE OIL AST
- D DIESEL FUEL AST
- U FORMER UST AREA



SCALE IN FEET



**Northern Environmental**

Hydrologists • Engineers • Surveyors • Scientists  
12075 North Corporate Parkway, Suite 210, Mequon, Wisconsin 53092  
Phone: 800-776-7140 Fax: 262-241-8222

WISCONSIN ▲ MICHIGAN ▲ ILLINOIS ▲ IOWA

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DATE: 03/02/07 DRAWN BY: BMP TASK NUMBER: 100 PROJECT NUMBER: TOJ 01-2200-2830 FIGURE 7

**GROUNDWATER ELEVATION  
FEBRUARY 7, 2006**

TOWN OF JACKSON GARAGE  
3685 DIVISION ROAD  
JACKSON, WISCONSIN



**Table 1 Groundwater Elevation Data, Town of Jackson Garage, Jackson, Wisconsin**

Well ID	Ground Surface Elevation (feet, msl)	Reference Point Elevation * (feet, msl)	Top/Bottom Well Screen Elevation (feet, msl)	Date	Depth to Water (feet)		Water Table Elevation (feet msl)
					Below Riser	Below Grade	
MW1	880.47	880.22	850.22 to 860.22	01/07/05	20.55	20.80	859.67
				04/06/05	10.75	11.00	869.47
				07/12/05	15.87	16.12	864.35
				02/02/06	16.23	16.48	863.99
				02/07/06	14.89	15.14	865.33
MW2	879.56	882.11	855.11 to 865.11	04/06/05	13.79	11.24	868.32
				07/12/05	18.58	16.03	863.53
				02/02/06	14.52	11.97	867.59
				02/07/06	15.47	12.92	866.64
MW3	881.19	880.66	853.66 to 863.66	04/06/05	13.13	13.66	867.53
				07/12/05	18.10	18.63	862.56
				02/02/06	17.89	18.42	862.77
				02/07/06	17.41	17.94	863.25
MW4	881.18	880.71	853.71 to 863.71	04/06/05	11.03	11.50	869.68
				07/12/05	16.38	16.85	864.33
				02/02/06	16.95	17.42	863.76
				02/07/06	15.77	16.24	864.94
MW5	879.55	879.06	852.06 to 862.06	04/06/05	9.10	9.59	869.96
				07/12/05	13.63	14.12	865.43
				02/02/06	10.99	11.48	868.07
				02/07/06	10.97	11.46	868.09
MW6	884.04	883.56	861.04 to 871.04	02/02/06	>22.25	>22.74	<861.31
				02/07/06	20.75	21.23	862.81
MW7	880.51	880.25	857.51 to 867.51	02/02/06	20.60	20.86	859.65
				02/07/06	19.66	19.92	860.59

**Key:**

msl = mean sea level

fbg = feet below grade

\* = reference point is the north of PVC riser

**Note:**

1) Bench mark is USGS monument at the center of Highway 60 and Highway G intersection (876.06' msl)



**Table 2 Groundwater Analytical Results - Volatile Organic Compounds, Town of Jackson Garage, Jackson, Wisconsin**

Well ID	Date Sampled	Groundwater Elevation	Lead milligrams per liter)	Detected Volatile Organic Compounds (micrograms per liter)											
				Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methyl-tertiary-butyl-ether	Naphthalene	n-Propylbenzene	Toluene	Trimethylbenzenes	Xylenes
Chapter NR 140, Wisconsin Administrative Code PAL			5	0.5	NE	NE	140	NE	NE	12	8	NE	200	96	1000
Chapter NR 140, Wisconsin Administrative Code ES			15	5	NE	NE	700	NE	NE	60	40	NE	1000	480	10,000
MW1	01/07/05	859.67	16	14,000	<4.0	6.0	1400	40	5.6	2200	330	90	3800	980	4400
	04/06/05	869.47	14	6700	-	-	1500	-	-	<36	350	-	9000	1260	6400
	04/06/05	869.47	-	6900	-	-	1500	-	-	<39	370	-	9200	1360	6600
	02/07/06	865.33	-	9600	-	-	1710	-	-	268	490	-	10,000	1512	7370
MW2	04/06/05	868.32	<0.44	1.1	<0.20	<0.25	<0.50	<0.20	<0.20	2.4	<0.25	<0.50	<0.20	<0.40	<0.50
	02/07/06	866.64	-	<0.12	-	-	<0.50	-	-	<0.11	<1.2	-	<0.13	<1.11	<2.0
MW3	04/06/05	867.53	<0.44	100	0.41	0.33	15	1.1	<0.20	10	4.6	1.7	4.6	15.6	24
	02/07/06	863.25	-	7.3	-	-	<0.50	-	-	17.8	<1.2	-	<0.13	<1.11	<2.0
MW4	04/06/05	869.68	<0.44	70	<0.20	<0.25	25	0.85	0.21	7.4	6.8	1.9	19	26.5	99
	02/07/06	864.94	-	2760	-	-	1040	-	-	118	302	-	1400	778	2900
	02/07/06	864.94	-	2540	-	-	1050	-	-	88	330	-	1910	994	4220
MW5	04/06/05	869.96	<0.44	<0.20	<0.20	<0.25	<0.50	<0.20	<0.20	<0.50	0.43	<0.50	0.29	0.27	<0.50
	02/07/06	868.09	-	<0.12	-	-	<0.50	-	-	<0.11	<1.2	-	<0.13	<1.11	<2.0
MW6	02/07/06	862.81	-	<0.26	<0.61	<0.25	<0.30	<0.56	<0.50	<0.36	<0.85	<0.56	<0.52	<1.15	<1.17
MW7	02/07/06	860.59	-	<0.26	<0.61	<0.25	<0.30	<0.56	<0.50	<0.36	<0.85	<0.56	<0.52	<1.15	<1.17

Key:

NE = not established by Wisconsin Administrative Code

XXX = exceeds Chapter NR 140, Wisconsin Administrative Code (NR 140, Wis. Adm. Code preventive action limit (PAL))

\* = duplicate sample

<x = detected analyte is less than the limit of detection

**XXX** = exceeds NR 140, Wis. Adm. Code enforcement standard (ES)





**Table 3 Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons, Town of Jackson Garage, Jackson, Wisconsin**

Well ID	Date Sampled	Groundwater Elevation	Detected Polynuclear Aromatic Hydrocarbons (micrograms per liter)							
			Acenaphthylene	Anthracene	Fluorene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
Chapter NR 140, Wisconsin Administrative Code PAL			NE	600	80	NE	NE	10	NE	NE
Chapter NR 140, Wisconsin Administrative Code ES			NE	3000	400	NE	NE	100	NE	NE
MW1	01/07/05	859.67	1.2	0.41	4.3	65	86	<b>230</b>	2.7	0.19

Key:

NE = not established by Wisconsin Administrative Code

XXX = exceeds Chapter NR 140, Wisconsin Administrative Code (NR 140, Wis. Adm. Code preventive action limit (PAL))

**XXX** = exceeds NR 140, Wis. Adm. Code enforcement standard (ES)



**Table 2 Water Supply Well Groundwater Analytical Results, Village of Jackson, Jackson, Wisconsin**

Well ID	Casing Depth (feet below grade)	Open Borehole Interval (feet below grade)	Date Sampled	Detected Volatile Organic Compounds (micrograms per liter)													
				1,2-Dichloroethane	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	Methyl-tertiary-butyl-ether	Naphthalene	n-Propylbenzene	Styrene	Toluene	Trimethylbenzenes	Xylenes	
Chapter NR 140, Wisconsin Administrative Code Preventive Action Limit				0.5	0.5	NE	NE	140	NE	12	10	NE	10	200	96	1000	
Chapter NR 140, Wisconsin Administrative Code Enforcement Standard				5	5	NE	NE	700	NE	60	100	NE	100	1000	480	10,000	
Sobek	50	50-190	07/06/04	0.68	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	120	<0.15	<0.15	<0.15	<0.15	<0.15	<0.30
Bourgeois/Laverenz Old Well	31	31-86	12/04/03	0.36	220	0.3	0.17	7.4	1.0	140	4.5	0.97	<0.15	2.2	7.28	7.4	
Bourgeois - New Well	223	223-265	05/04/04	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	3.4	<0.15	<0.30	
Laverenz - New Well	224	224-265	05/04/04	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	0.45	<0.15	<0.15	<0.15	3.8	<0.15	<0.30	
Town of Jackson Garage - Old Well	28	28-184	12/04/03	1.1	0.54	<0.15	<0.15	0.54	<0.15	190	<0.15	<0.15	<0.15	<0.15	0.29	<0.30	
Town of Jackson Garage - New Well	224	224-285	05/04/04	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	0.38	36	<0.15	<0.30	

**Key:**

msl = mean sea level

fbg = feet below grade

NE = Not established by Wisconsin Administrative Code

<x = not detected above laboratory Limit of Detection of X

**XXX** = exceeds Chapter NR 140, Wisconsin Administrative Code (NR 140, Wis. Adm. Code preventive action limit (PAL))

**XXX** = exceeds NR 140, Wis. Adm. Code enforcement standard (ES)

Note: water supply well samples collected by Wisconsin Department of Natural Resources



**APPENDIX A**  
**PROJECT CONTACTS**



PROJECT CONTACTS

Property Owner/  
Contact: Town of Jackson  
Mr. Russell Hanson  
3146 Division Road  
Jackson, Wisconsin 53037

Project Consultant: Northern Environmental Technologies, Incorporated  
Mr. Christopher C. Hatfield, Project Geologist  
12075 North Corporate Parkway, Suite 210  
Mequon, Wisconsin 53092  
(262) 241-3133

Regulatory Agency: Wisconsin Department of Natural Resources  
Remediation and Redevelopment Program  
Mr. David Volkert  
2300 North Martin Luther King Drive  
Milwaukee, Wisconsin 53212

Wisconsin Department of Commerce  
ERS Division  
Ms. Monica L. Weis  
Post Office Box 7838  
Madison, Wisconsin 53707-7838

Drilling Services Environmental Drilling Services  
Mr. Craig LaPlant  
3671 Monroe Road  
DePere, Wisconsin 54115

Badger State Drilling  
Mr. Mark Garwick  
930 West Silver Beach Road  
Belgium, Wisconsin 53004

Probe Technologies, Inc  
Mr. Dan Bendorf  
W1225 South Shore Drive  
Palmyra, Wisconsin 53156

Laboratory Services: Test America Laboratories, Incorporated  
Mr. Dan Milewsky  
602 Commerce Drive  
Watertown, Wisconsin 53094  
(800) 833-7036

Synergy Environmental Lab, LLC  
Mr. Michael Ricker  
1990 Prospect Court  
Appleton, Wisconsin 54914  
(920) 830-2455





**APPENDIX B**  
**PROJECT METHODS**



## PROJECT METHODS

### Soil Sampling

Badger State Drilling drilled and sampled borehole B7. Environmental Drilling Services drilled and sampled boreholes B8 through B11, B14 and B15. The boreholes were drilled using a truck-mounted drill rig equipped with 4.25-inch inside diameter hollow-stem augers and sampled at 2½-foot intervals. Drilling was performed in general conformance with American Society for Testing and Materials (ASTM) designation D-1452 (ASTM, 1980). Soil samples were obtained using standard split-barrel techniques (ASTM, 1984). Boreholes B12 and B13 were sampled using direct push methods by Probe Technologies, Incorporated.

Soil sampling was performed under the supervision of a Northern Environmental Technologies, Incorporated hydrogeologist who maintained a log of the boreholes. Each sample was split into two representative portions: one for field screening and the other for laboratory analysis. Field screening consisted of classifying the soil according to the Unified Soil Classification System, identifying obvious odors and staining, and analyzing photoionization detector (PID) headspace. The PID headspace analysis sample was sealed in a sealable plastic bag. Care was taken to maintain a relatively constant soil volume to headspace volume ratio for all samples. The sealed headspace sample was agitated to break up soil before being left in a warm environment for at least 15 minutes to allow time for volatilization to occur. The PID probe was then carefully inserted into the plastic bag and the highest-stable response occurring in 10 to 20 seconds was recorded as instrument units as isobutylene. The PID used was a Thermo Environmental Instruments® Model 580A Organic Vapor Meter equipped with a 10.6 eV lamp. The PID was checked before use for direct response to isobutylene.

Soil samples collected for laboratory analysis were placed in laboratory-supplied vials. Three 25-gram portions of each sample were placed into 2-ounce glass jars, and sealed with Teflon®-lined threaded caps. The 25-gram portions were preserved with methanol. A 4-ounce plastic container was filled with soil for dry-weight analysis.

Soil samples collected for laboratory analysis were labeled and stored on ice in a cooler where they were maintained in a chilled condition for possible laboratory analysis. Soil samples selected for laboratory analysis were transported by courier under chain-of-custody to a Wisconsin Department of Natural Resources (WDNR)-certified laboratory. Soil samples were laboratory analyzed for diesel range organics and gasoline range organics using the WDNR-Modified Method, petroleum volatile organic compounds (PVOCs) using the Environmental Protection Agency (EPA) Method 8020, and lead using EPA Method 7420.

### Groundwater Monitoring Well Construction

All groundwater monitoring wells were constructed in accordance with WDNR requirements (Chapter NR 141, Wisconsin Administrative Code [NR 141, Wis. Adm. Code]). Each well was constructed using 2-inch inside diameter flush-threaded schedule 40 polyvinyl chloride (PVC) casing. A 10-foot length of 0.010-inch mill-slotted well screen placed from the approximate total depth of the borehole to approximately 5 to 10 feet below grade. The well screen was positioned so that the screen extended above the apparent water table to allow potential floating hydrocarbon product to be identified. No glue, solvent, lubricant, or similar substances were used to construct the wells. Pointed flush-threaded PVC end caps were placed at the bottom of each casing. All wells were capped with locking expandable caps.

Correct placement of the sand filter-pack, filter-pack seal/annular-space seal, and surface seal was verified by frequently measuring their position using a weighted measuring tape. Clean silica sand was used for filter-pack material and placed from total depth of the well up to 1 foot above the top of the well screen. Fine sand was placed between the filter-pack material and the well seal. Hydrated bentonite chips/granules were used



to form the well seal. Monitoring wells MW1, MW3, MW4, MW5, MW6, and MW7 were completed using a steel flush-mount pipe placed in a 1-foot thick concrete surface seal. MW2 and MW4 were completed using 5-foot steel “stick-up” protective standpipes.

### **Monitoring Well Development, Sampling, and Analysis**

Each groundwater monitoring well was developed and purged before collecting water samples for laboratory analysis in general accordance with the WDNR requirements (NR 141 Wis. Adm. Code). Each monitoring well was developed using a new clean disposable bottom-filling polyethylene bailer to remove soil that entered the well during installation. The bailer was used to surge groundwater in and out of the well screen, filter-pack, and surrounding formation to stabilize the formation and filter pack around the well. The bailer was used again to remove additional soil that entered the well from the surging procedure. The wells were then purged using a purge pump. Surging and pumping continued until water removed from the well was relatively free of soil, if possible. Wells MW6 and MW7 purged dry. Odor, and color of the purged water was recorded.

Groundwater sampling was conducted in general accordance with WDNR protocols (WDNR, 1996). Groundwater quality samples were collected from each well using a new disposable polyethylene bailer when wells had recharged sufficiently for sampling. Water samples were obtained by gently lowering the bailer into the water in the well to a depth approximately equal to the length of the bailer. The water was transferred directly from the bailer using a bottom-emptying device into appropriate laboratory-prepared sample containers. Water samples collected for organic analysis were preserved with hydrochloric acid. Samples were immediately labeled and placed on ice and maintained chilled during fieldwork through courier delivery to the analytical laboratory. Chain-of-custody records documenting sample preparation and handling accompanied the samples to the laboratory for analysis. Groundwater samples were analyzed for VOCs, lead, and/or PVOCs using the above-referenced methods and polynuclear aromatic hydrocarbons using EPA Method 8310 by Test America or Synergy Environmental.

### **Monitoring Well Location and Elevation Survey**

Northern Environmental personnel surveyed the location and elevation of each well. Horizontal well locations were measured to the nearest foot. Ground surface, top of protective casing, and top of riser elevations were measured to the nearest 0.01 foot at each well. Elevations were referenced to USGS monument at the center of Highway 60 and County Highway G intersection (876.06' msl.)

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American Society for Testing and Materials, *Standard Practice for Soil Investigation and Sampling by Auger Borings*, Designation D1452, August 1980.

American Society for Testing and Materials, *Standard Method for Penetration Test and Split-Barrel Sampling of Soils*, Designation D1586, November 1984.

Wisconsin Department of Natural Resources, *Groundwater Sampling Procedures, Field Manual, Publication No. DG-96*, September, 1996.

Wisconsin Department of Natural Resources, “Groundwater Monitoring Well Requirements,” *Wisconsin Administrative Code*, Chapter NR 141, March 2000.



**APPENDIX C**  
**WDNR FORMS**





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

Facility/Project Name <b>Town of Jackson Garage</b>		License/Permit/Monitoring Number -		Boring Number <b>B7</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Jim Badger State Drilling</b>		Date Drilling Started <b>12/29/2004</b>		Date Drilling Completed <b>12/29/2004</b>	
Drilling Method <b>rotary (air or mud)</b>		WI Unique Well No. <b>PP561</b>		DNR Well ID No.	
Common Well Name <b>MW1</b>		Final Static Water Level <b>Feet Site</b>		Surface Elevation <b>Feet Site</b>	
Borehole Diameter <b>14.0 inches</b>		Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane <b>NE 1/4 of NE 1/4 of Section 21, T 10 N, R 20 E</b>		Lat _____ ' _____"		<input type="checkbox"/> N <input type="checkbox"/> E	
Long _____ ' _____"		Feet <input type="checkbox"/> S		Feet <input type="checkbox"/> W	
Facility ID <b>267111350</b>		County <b>Washington</b>		County Code <b>67</b>	
Civil Town/City/ or Village <b>Jackson</b>					

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S701 SS	24 16	20 28 17 50	1 2	ASPHALT SAND, well graded, few dolomite fragments, yellowish brown (10YR 5/6), moist, loose (Glacial Till of the New Berlin Formation)				0							
S702 SS	24 14	18 16 10 11	3 4		SW			0							
S703 SS	6 0	>50	6	fractured dolomite BEDROCK				0							
			7												
			8												
			9												
			10												
			11	dolomite BEDROCK											
			12												

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

Signature *Chris Schmidt* Firm **Northern Environmental Technologies** Tel: 262-241-3133  
12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Fax: 262-241-8222

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

Boring Number **B7**

Use only as an attachment to Form 4400-122.

Page **2** of **3**




Sample		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
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			13	dolomite BEDROCK <i>(continued)</i>										
			14											
			15											
			16											
			17											
			18											
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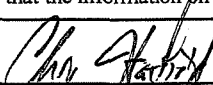


Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Town of Jackson Garage</b>		License/Permit/Monitoring Number -		Boring Number <b>B8</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Craig LaPlant EDS</b>			Date Drilling Started <b>4/4/2005</b>	Date Drilling Completed <b>4/4/2005</b>	Drilling Method rotary (air or mud)
WI Unique Well No. <b>PH494</b>	DNR Well ID No.	Common Well Name <b>MW2</b>	Final Static Water Level <b>868.3 Feet Site</b>	Surface Elevation <b>879.6 Feet Site</b>	Borehole Diameter <b>14.0 inches</b>
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b> <b>NE 1/4 of NE 1/4 of Section 21, T 10 N, R 20 E</b>			Local Grid Location Lat _____" Long _____" Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID <b>267111350</b>	County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/ or Village <b>Jackson</b>		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S801 SS	24 12	5 11 50 -	1	SANDY CLAY, some silt, low plasticity, very dark grayish brown (10YR 3/2), moist (Glacial Till of the Waubeka Member of the Holy Hill Formation)	CLS			2						
			2											
			4	DOLOMITE BEDROCK										
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

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

Signature 	Firm <b>Northern Environmental Technologies</b> 12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092	Tel: 262-241-3133 Fax: 262-241-8222
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.



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

Facility/Project Name <b>Town of Jackson Garage</b>		License/Permit/Monitoring Number -		Boring Number <b>B9</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Craig LaPlant EDS</b>		Date Drilling Started <b>4/4/2005</b>		Date Drilling Completed <b>4/4/2005</b>	
Drilling Method <b>rotary (air or mud)</b>		WI Unique Well No. <b>PH493</b>		DNR Well ID No.	
Common Well Name <b>MW3</b>		Final Static Water Level <b>867.5 Feet Site</b>		Surface Elevation <b>881.2 Feet Site</b>	
Borehole Diameter <b>14.0 inches</b>		Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane <b>N, E S/C/N</b>		Lat _____ ' _____ "		<input type="checkbox"/> N <input type="checkbox"/> E	
<b>NE 1/4 of NE 1/4 of Section 21, T 10 N, R 20 E</b>		Long _____ ' _____ "		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID <b>267111350</b>		County <b>Washington</b>		County Code <b>67</b>	
				Civil Town/City/ or Village <b>Jackson</b>	

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		
S901 SS	24 8	3 6 50	1	CLAYEY SAND, few silt, very dark gray (10YR 3/1), moist (Glacial Till of the Waubeka Member of the Holy Hill Formation)	SW-SC			2							
			2												
			3	DOLOMITE BEDROCK											
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												

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



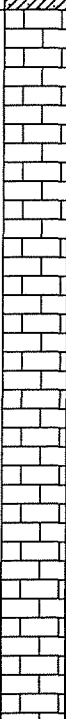

Signature 	Firm <b>Northern Environmental Technologies</b> 12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092	Tel: 262-241-3133 Fax: 262-241-8222
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Town of Jackson Garage</b>		License/Permit/Monitoring Number -		Boring Number <b>B10</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Craig LaPlant EDS</b>		Date Drilling Started <b>4/4/2005</b>		Date Drilling Completed <b>4/4/2005</b>	
Drilling Method <b>rotary (air or mud)</b>		WT Unique Well No. <b>PH492</b>		DNR Well ID No.	
Common Well Name <b>MW4</b>		Final Static Water Level <b>869.7 Feet Site</b>		Surface Elevation <b>881.2 Feet Site</b>	
Borehole Diameter <b>14.0 inches</b>		Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane <b>NE 1/4 of NE 1/4 of Section 21, T 10 N, R 20 E</b>		Lat _____"		Feet <input type="checkbox"/> N <input type="checkbox"/> E	
Long _____"		Feet <input type="checkbox"/> S <input type="checkbox"/> W			
Facility ID <b>267111350</b>		County <b>Washington</b>		County Code <b>67</b>	
				Civil Town/City/ or Village <b>Jackson</b>	

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	
S100 SS	24 6	8 8 50	1	SANDY CLAY, some silt, low plasticity, very dark brown (10YR 2/2), moist (Glacial Till of the Waubeka Member of the Holy Hill Formation)	CLS			1						
S1002 SS	24 6	4 4 50	3	DOLOMITE BEDROCK				0						

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

Signature  Firm **Northern Environmental Technologies** Tel: 262-241-3133  
12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Fax: 262-241-8222



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

Facility/Project Name <b>Town of Jackson Garage</b>		License/Permit/Monitoring Number -		Boring Number <b>B11</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Craig LaPlant EDS</b>		Date Drilling Started <b>4/4/2005</b>		Date Drilling Completed <b>4/4/2005</b>	
Drilling Method <b>rotary (air or mud)</b>		WI Unique Well No. <b>PH491</b>		DNR Well ID No.	
Common Well Name <b>MW5</b>		Final Static Water Level <b>870.0 Feet Site</b>		Surface Elevation <b>879.6 Feet Site</b>	
Borehole Diameter <b>14.0 inches</b>		Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane <b>NE 1/4 of NE 1/4 of Section 21, T 10 N, R 20 E</b>		Lat _____ ° ' "		Feet <input type="checkbox"/> N <input type="checkbox"/> E	
Long _____ ° ' "		Feet <input type="checkbox"/> S <input type="checkbox"/> W			
Facility ID <b>267111350</b>		County <b>Washington</b>		County Code <b>67</b>	
		Civil Town/City/ or Village <b>Jackson</b>			

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	
S110 SS	24 20	3 5 7 50	1	SILTY SAND, well graded, trace clay, yellowish brown (10YR 5/4), moist (Glacial Till of the Waubeka Member of the Holy Hill Formation)	SW-SM			2						
			2											
			3	DOLOMITE BEDROCK										
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

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

Signature 	Firm <b>Northern Environmental Technologies</b> 12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092	Tel: 262-241-3133 Fax: 262-241-8222
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.



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

Facility/Project Name <b>Town of Jackson Garage</b>		License/Permit/Monitoring Number -		Boring Number <b>B12</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Dan Bendorf Probe Technologies</b>		Date Drilling Started <b>9/9/2005</b>		Date Drilling Completed <b>9/9/2005</b>	
Drilling Method <b>direct push</b>		WI Unique Well No.		DNR Well ID No.	
Common Well Name <b>B12</b>		Final Static Water Level Feet Site		Surface Elevation Feet Site	
Borehole Diameter <b>2.0 inches</b>		Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane <b>NE 1/4 of NE 1/4 of Section 21, T 10 N, R 20 E</b>		N, E S/C/N		Lat _____ ' _____ "	
Long _____ ' _____ "		Feet <input type="checkbox"/> N		Feet <input type="checkbox"/> E	
Feet <input type="checkbox"/> S		Feet <input type="checkbox"/> W		Facility ID <b>267111350</b>	
County <b>Washington</b>		County Code <b>67</b>		Civil Town/City/ or Village <b>Jackson</b>	

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		
S120	SS	24	0	1	TOPSOIL to 1 foot then the top of a UST is encountered	ML										
				2												

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

Signature Firm **Northern Environmental Technologies** Tel: 262-241-3133  
12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Fax: 262-241-8222

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

Facility/Project Name <b>Town of Jackson Garage</b>		License/Permit/Monitoring Number -		Boring Number <b>B13</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Dan Bendorf Probe Technologies</b>			Date Drilling Started <b>9/9/2005</b>	Date Drilling Completed <b>9/9/2005</b>	Drilling Method <b>direct push</b>
WI Unique Well No.	DNR Well ID No.	Common Well Name <b>B13</b>	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter <b>2.0 inches</b>
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>			Local Grid Location		
NE 1/4 of NE 1/4 of Section 21, T 10 N, R 20 E			Lat _____ ° _____ ' _____ "	<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID <b>267111350</b>		County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/ or Village <b>Jackson</b>	

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	
S130 SS	24 20		1	SILTY SAND, well graded, trace gravel, dark grayish brown (10YR 4/2), moist, loose	SM			0						
S1302 SS	24 20		2											
			3											
			4											
				BEDROCK										

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

Signature 	Firm <b>Northern Environmental Technologies</b> 12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092	Tel: 262-241-3133 Fax: 262-241-8222
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Town of Jackson Garage</b>		License/Permit/Monitoring Number -		Boring Number <b>B14</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Craig LaPlant EDS</b>			Date Drilling Started <b>9/12/2005</b>	Date Drilling Completed <b>9/12/2005</b>	Drilling Method <b>rotary (air or mud)</b>
WI Unique Well No.	DNR Well ID No.	Common Well Name <b>MW6</b>	Final Static Water Level <b>Feet Site</b>	Surface Elevation <b>Feet Site</b>	Borehole Diameter <b>14.0 inches</b>
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <b>NE 1/4 of NE 1/4 of Section 21, T 10 N, R 20 E</b>			Lat _____ "	<input type="checkbox"/> N <input type="checkbox"/> E	
			Long _____ "	<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID <b>267111350</b>		County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/ or Village <b>Jackson</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S140 SS	24 18	4 8 11 8	1	SILTY SAND, trace gravel, well graded, light yellowish brown (10YR 6/4), moist, loose	SM			0						
			2	BEDROCK										
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
			11											
			12											

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

Signature 	Firm <b>Northern Environmental Technologies</b> 12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092	Tel: 262-241-3133 Fax: 262-241-8222
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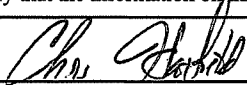


Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Town of Jackson Garage</b>		License/Permit/Monitoring Number -		Boring Number <b>B15</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Craig LaPlant EDS</b>		Date Drilling Started <b>9/12/2005</b>		Date Drilling Completed <b>9/12/2005</b>	
Drilling Method <b>rotary (air or mud)</b>					
WI Unique Well No.	DNR Well ID No.	Common Well Name <b>MW7</b>	Final Static Water Level Feet Site	Surface Elevation Feet Site	Borehole Diameter <b>14.0 inches</b>
Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <b>NE 1/4 of NE 1/4 of Section 21, T 10 N, R 20 E</b>			Lat _____ ° _____ ' _____ "		
			Long _____ ° _____ ' _____ "		
Facility ID <b>267111350</b>		County <b>Washington</b>	County Code <b>67</b>	Civil Town/City/ or Village <b>Jackson</b>	

Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	SILTY SAND	SM									
			2											
			3											
			4											
			5											
			6											
			7	BEDROCK										
			8											
			9											
			10											
			11											
			12											

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

Signature  Firm **Northern Environmental Technologies** Tel: 262-241-3133  
12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Fax: 262-241-8222



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

Facility/Project Name Town of Jackson Garage		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 MW1	
Facility License, Permit or Monitoring No.		Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>		Wis. Unique Well No.   DNR Well Number	
Facility ID 267111350		St. Plane _____ ft. N, _____ ft. E. S / C / N		Date Well Installed 12/29/2004	
Type of Well Well Code 71/dw		Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 21, T. 10 N, R. 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Jim	
Distance from Waste/Source 80 ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	
Enf. Stds. Apply <input checked="" type="checkbox"/>				Badger State Drilling	

A. Protective pipe, top elevation _____ ft. Site	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>880.22</u> ft. Site	2. Protective cover pipe: a. Inside diameter: <u>10.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. Site	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. Site or _____ ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input 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 checked="" type="checkbox"/>	
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input checked="" type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. <u>Badger Mining #40</u> b. Volume added <u>0.66</u> ft <sup>3</sup>
Describe _____ none	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Badger Mining #30</u> b. Volume added <u>5.6</u> ft <sup>3</sup>
17. Source of water (attach analysis, if required):	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. Site or <u>1.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. Site or <u>16.0</u> ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top _____ ft. Site or <u>18.0</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
H. Screen joint, top _____ ft. Site or <u>20.0</u> ft.	
I. Well bottom _____ ft. Site or <u>35.0</u> ft.	
J. Filter pack, bottom _____ ft. Site or <u>35.0</u> ft.	
K. Borehole, bottom _____ ft. Site or <u>35.0</u> ft.	
L. Borehole, diameter <u>14.0</u> in.	
M. O.D. well casing <u>2.00</u> in.	
N. I.D. well casing <u>2.00</u> in.	

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

Signature Chris [Signature] Firm Northern Environmental Technologies  
12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Tel: 262-241-3133 Fax: \_\_\_\_\_

Please complete both Forms 4400-113A and 4400-113B and return them 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

**MONITORING WELL CONSTRUCTION**  
Form 4400-113A Rev. 7-98

Facility/Project Name Town of Jackson Garage	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW2
Facility License, Permit or Monitoring No.	Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>	Wis. Unique Well No. PH494
Facility ID 267111350	St. Plane _____ ft. N, _____ ft. E. S/C/N	DNR Well Number
Type of Well Well Code 71/dw	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 21, T. 10 N, R. 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Date Well Installed 04/04/2005
Distance from Waste/Source 5 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) Craig LaPlant
Enf. Stds. Apply <input checked="" type="checkbox"/>	Gov. Lot Number	EDS

A. Protective pipe, top elevation _____ ft. Site	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>882.11</u> ft. Site	2. Protective cover pipe: a. Inside diameter: <u>10.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>879.6</u> ft. Site	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. Site or _____ ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input 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 checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input checked="" type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>Badger Mining #40</u> b. Volume added <u>0.66</u> ft <sup>3</sup>
16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe <u>none</u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Badger Mining #30</u> b. Volume added <u>5.6</u> ft <sup>3</sup>
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>878.6</u> ft. Site or <u>1.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>866.6</u> ft. Site or <u>13.0</u> ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top <u>864.6</u> ft. Site or <u>15.0</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
H. Screen joint, top <u>862.6</u> ft. Site or <u>17.0</u> ft.	
I. Well bottom <u>849.6</u> ft. Site or <u>30.0</u> ft.	
J. Filter pack, bottom <u>849.6</u> ft. Site or <u>30.0</u> ft.	
K. Borehole, bottom <u>849.6</u> ft. Site or <u>30.0</u> ft.	
L. Borehole, diameter <u>14.0</u> in.	
M. O.D. well casing <u>2.00</u> in.	
N. I.D. well casing <u>2.00</u> in.	

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

Signature [Signature] Firm Northern Environmental Technologies  
12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Tel: 262-241-3133 Fax: \_\_\_\_\_

Please complete both Forms 4400-113A and 4400-113B and return them 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 Town of Jackson Garage	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>MW3</b>
Facility License, Permit or Monitoring No.	Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or	Wis. Unique Well No. PH493   DNR Well Number
Facility ID 267111350	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04/04/2005
Type of Well Well Code 71/dw	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 21, T. 10 N, R. 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Craig LaPlant
Distance from Waste/Source 90 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number EDS

A. Protective pipe, top elevation _____ ft. Site	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>880.66</u> ft. Site	2. Protective cover pipe: a. Inside diameter: <u>10.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>881.2</u> ft. Site	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. Site or _____ ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input 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 checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input checked="" type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>Badger Mining #65</u> b. Volume added <u>0.66</u> ft <sup>3</sup>
16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe <u>none</u>	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Badger Mining #45-55</u> b. Volume added <u>5.6</u> ft <sup>3</sup>
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>880.2</u> ft. Site or <u>1.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>868.2</u> ft. Site or <u>13.0</u> ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top <u>866.2</u> ft. Site or <u>15.0</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
H. Screen joint, top <u>864.2</u> ft. Site or <u>17.0</u> ft.	
I. Well bottom <u>853.2</u> ft. Site or <u>28.0</u> ft.	
J. Filter pack, bottom <u>854.2</u> ft. Site or <u>27.0</u> ft.	
K. Borehole, bottom <u>853.2</u> ft. Site or <u>28.0</u> ft.	
L. Borehole, diameter <u>14.0</u> in.	
M. O.D. well casing <u>2.00</u> in.	
N. I.D. well casing <u>2.00</u> in.	

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

Signature Chris Arnold Firm Northern Environmental Technologies Tel: 262-241-3133  
12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Fax:

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

Facility/Project Name Town of Jackson Garage	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW4
Facility License, Permit or Monitoring No.	Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or	Wis. Unique Well No. PH492   DNR Well Number
Facility ID 267111350	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 04/04/2005
Type of Well Well Code 71/dw	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 21, T. 10 N, R. 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Craig LaPlant
Distance from Waste/Source 60 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number EDS

A. Protective pipe, top elevation \_\_\_\_\_ ft. Site  
B. Well casing, top elevation 880.71 ft. Site  
C. Land surface elevation 881.2 ft. Site  
D. Surface seal, bottom \_\_\_\_\_ ft. Site or \_\_\_\_\_ ft.

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

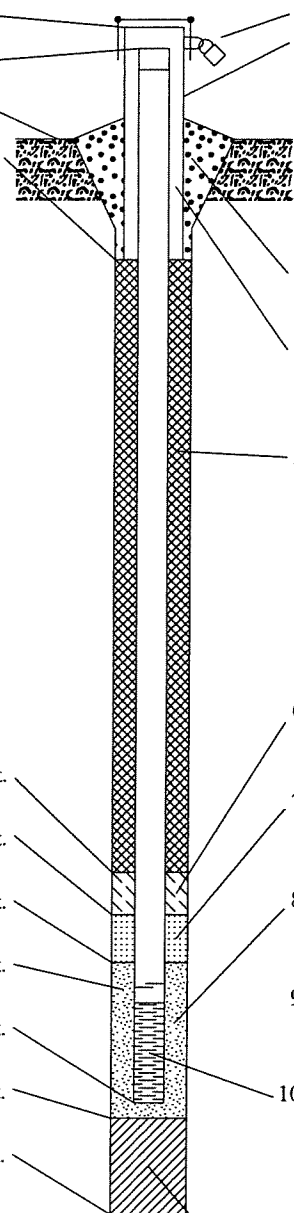
13. Sieve analysis attached?  Yes  No

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 none

17. Source of water (attach analysis, if required):



1. Cap and lock?  Yes  No

2. Protective cover pipe:  
a. Inside diameter: 10.0 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  
Other

5. Annular space seal:  
a. Granular/Chipped 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. \_\_\_\_\_ Ft<sup>3</sup> 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 chips  3 2  
c. \_\_\_\_\_ Other

7. Fine sand material: Manufacturer, product name & mesh size  
a. Badger Mining #65  
b. Volume added 0.66 ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name & mesh size  
a. Badger Mining #45-55  
b. Volume added 5.6 ft<sup>3</sup>

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 \_\_\_\_\_  
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 880.2 ft. Site or 1.0 ft.  
F. Fine sand, top 868.2 ft. Site or 13.0 ft.  
G. Filter pack, top 866.2 ft. Site or 15.0 ft.  
H. Screen joint, top 864.2 ft. Site or 17.0 ft.  
I. Well bottom 853.2 ft. Site or 28.0 ft.  
J. Filter pack, bottom 854.2 ft. Site or 27.0 ft.  
K. Borehole, bottom 853.2 ft. Site or 28.0 ft.  
L. Borehole, diameter 14.0 in.  
M. O.D. well casing 2.00 in.  
N. I.D. well casing 2.00 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature Chris Stachwid Firm Northern Environmental Technologies  
12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Tel: 262-241-3133 Fax: \_\_\_\_\_

Please complete both Forms 4400-113A and 4400-113B and return them 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 Town of Jackson Garage		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 <b>MW5</b>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>		Wis. Unique Well No. PH491	
Facility ID 267111350		St. Plane _____ ft. N, _____ ft. E. S/C/N		Date Well Installed 04/04/2005	
Type of Well Well Code 71/dw		Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 21, T. 10 N, R. 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Craig LaPlant	
Distance from Waste/Source 110 ft.	Enf. Stds. Apply <input checked="" type="checkbox"/>	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number	
EDS					

A. Protective pipe, top elevation _____ ft. Site	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>879.06</u> ft. Site	2. Protective cover pipe: a. Inside diameter: <u>10.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>879.6</u> ft. Site	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. Site or _____ ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input 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 checked="" type="checkbox"/>	
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input checked="" type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe <u>none</u>	7. Fine sand material: Manufacturer, product name & mesh size a. <u>Badger Mining #65</u> b. Volume added <u>0.66</u> ft <sup>3</sup>
17. Source of water (attach analysis, if required): _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Badger Mining #45-55</u> b. Volume added <u>5.6</u> ft <sup>3</sup>
E. Bentonite seal, top <u>878.6</u> ft. Site or <u>1.0</u> 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"/>
F. Fine sand, top <u>866.6</u> ft. Site or <u>13.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
G. Filter pack, top <u>864.6</u> ft. Site or <u>15.0</u> ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
H. Screen joint, top <u>862.6</u> ft. Site or <u>17.0</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
I. Well bottom <u>851.6</u> ft. Site or <u>28.0</u> ft.	
J. Filter pack, bottom <u>852.6</u> ft. Site or <u>27.0</u> ft.	
K. Borehole, bottom <u>851.6</u> ft. Site or <u>28.0</u> ft.	
L. Borehole, diameter <u>14.0</u> in.	
M. O.D. well casing <u>2.00</u> in.	
N. I.D. well casing <u>2.00</u> in.	

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

Signature *Chris LaPlant* Firm Northern Environmental Technologies Tel: 262-241-3133  
12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Fax: \_\_\_\_\_

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

**MONITORING WELL CONSTRUCTION**  
Form 4400-113A Rev. 7-98

Facility/Project Name Town of Jackson Garage		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW6	
Facility License, Permit or Monitoring No.		Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>		Wis. Unique Well No.   DNR Well Number	
Facility ID 267111350		St. Plane _____ ft. N, _____ ft. E. S/C/N		Date Well Installed 09/12/2005	
Type of Well Well Code 71/dw		Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 21, T. 10 N, R. 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Craig LaPlant	
Distance from Waste/Source 160 ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number EDS	

- A. Protective pipe, top elevation \_\_\_\_\_ ft. Site
- B. Well casing, top elevation 883.56 ft. Site
- C. Land surface elevation \_\_\_\_\_ ft. Site
- D. Surface seal, bottom \_\_\_\_\_ ft. Site or \_\_\_\_\_ ft.

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

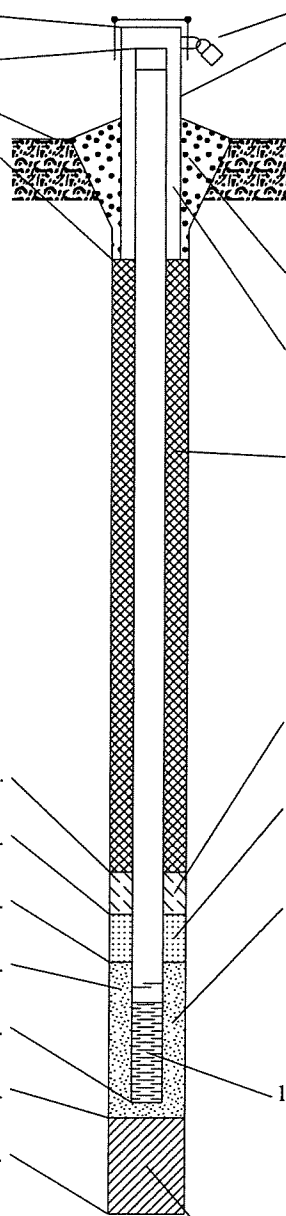
13. Sieve analysis attached?  Yes  No

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 none

17. Source of water (attach analysis, if required):  
 \_\_\_\_\_



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: 10.0 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  
Other
- 5. Annular space seal:
  - a. Granular/Chipped 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. \_\_\_\_\_ Ft<sup>3</sup> 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 chips  3 2
  - c. \_\_\_\_\_ Other
- 7. Fine sand material: Manufacturer, product name & mesh size  
 a. Badger Mining #65  
 b. Volume added 0.66 ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name & mesh size  
 a. Badger Mining #45-55  
 b. Volume added 5.6 ft<sup>3</sup>
- 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 \_\_\_\_\_
  - 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 \_\_\_\_\_ ft. Site or 1.0 ft.
- F. Fine sand, top \_\_\_\_\_ ft. Site or 9.0 ft.
- G. Filter pack, top \_\_\_\_\_ ft. Site or 11.0 ft.
- H. Screen joint, top \_\_\_\_\_ ft. Site or 13.0 ft.
- I. Well bottom \_\_\_\_\_ ft. Site or 23.0 ft.
- J. Filter pack, bottom \_\_\_\_\_ ft. Site or 23.0 ft.
- K. Borehole, bottom \_\_\_\_\_ ft. Site or 23.0 ft.
- L. Borehole, diameter 14.0 in.
- M. O.D. well casing 2.00 in.
- N. I.D. well casing 2.00 in.

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

Signature [Signature] Firm Northern Environmental Technologies Tel: 262-241-3133  
 12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Fax:



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

Facility/Project Name Town of Jackson Garage	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW7
Facility License, Permit or Monitoring No.	Local Grid Origin <input checked="" type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or	Wis. Unique Well No. DNR Well Number
Facility ID 267111350	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 09/12/2005
Type of Well Well Code 71/dw	Section Location of Waste/Source NE 1/4 of NE 1/4 of Sec. 21, T. 10 N, R. 20 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Craig LaPlant
Distance from Waste/Source 200 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number EDS

A. Protective pipe, top elevation _____ ft. Site	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>880.25</u> ft. Site	2. Protective cover pipe: a. Inside diameter: <u>10.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. Site	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. Site or _____ ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input 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 checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input checked="" type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ none	7. Fine sand material: Manufacturer, product name & mesh size a. _____ Badger Mining #65 b. Volume added <u>0.66</u> ft <sup>3</sup>
17. Source of water (attach analysis, if required):	8. Filter pack material: Manufacturer, product name & mesh size a. _____ Badger Mining #45-55 b. Volume added <u>5.6</u> ft <sup>3</sup>
E. Bentonite seal, top _____ ft. Site or <u>1.0</u> 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"/>
F. Fine sand, top _____ ft. Site or <u>9.0</u> ft.	10. Screen material: _____ PVC
G. Filter pack, top _____ ft. Site or <u>11.0</u> ft.	a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. Site or <u>13.0</u> ft.	b. Manufacturer _____
I. Well bottom _____ ft. Site or <u>23.0</u> ft.	c. Slot size: <u>0.010</u> in.
J. Filter pack, bottom _____ ft. Site or <u>23.0</u> ft.	d. Slotted length: <u>10.0</u> ft.
K. Borehole, bottom _____ ft. Site or <u>23.0</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
L. Borehole, diameter <u>14.0</u> in.	
M. O.D. well casing <u>2.00</u> in.	
N. I.D. well casing <u>2.00</u> in.	

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

Signature Chris Stalder Firm Northern Environmental Technologies Tel: 262-241-3133  
12075 N. Corporate Parkway, Suite 210 Mequon, Wisconsin, 53092 Fax:

Please complete both Forms 4400-113A and 4400-113B and return them 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.



**APPENDIX D**

**SOIL LABORATORY ANALYTICAL REPORTS  
AND CHAIN-OF-CUSTODY RECORDS**



## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

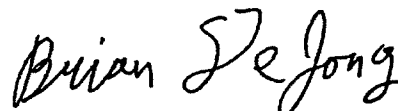
01/10/2005  
Job No: 04.13403  
Page 1 of 3

The following samples were received by TestAmerica for analysis:

TOJ-01-2201-2830 Jackson

Sample Number	Sample Description	Date Taken	Date Received
602014	S702	12/29/2004	12/30/2004

Soil results reported  
on a dry weight basis.



Brian DeJong  
Organic Operations Manager

NORTHERN ENVIRONMENTAL  
Job No: 04.13403

01/10/2005  
Page 2 of 3

## KEY TO DATA FLAGS

The attached sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed/extracted past hold time	B = Blank is contaminated
C = Standard outside of control limits	D = Diluted for analysis
E = TCLP extraction outside of method required temperature range	
F = Sample filtered in lab	G = Received past hold time
H = Late eluting hydrocarbons present	I = Improperly handled sample
J = Estimated concentration	L = Common lab solvent
M = Matrix interference	P = Improperly preserved sample
Q = Result confirmed via re-analysis	S = Sediment present
T = Does not match typical pattern	W = BOD re-set due to missed dilution
X = Unidentified compound(s) present	Z = Internal standard outside limits
* = See Case Narrative	

## KEY TO ANALYST INITIALS

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that certification is not required for the work performed):

Lab Code	Certification Number
008	WDNR - 999766900
009	WDNR - 241293690
020	WDNR - 999447680
030	ILNELAC - 100230; WDNR - 998294430
060	ILNELAC - 100221; WDNR - 999447130
070	IA - 007; ILNELAC - 000668; MDH - 019-999-319; WDNR - 999917270
090	ILNELAC 200006; WDNR - 399031270
130	WDNR - 632021390
147	WDNR - 721026460
148	WDNR - 399017190
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
520	WDNR - 999518190; ILNELAC - 100439
700	WDNR - 113289110

TestAmerica Watertown Certifications: WI DNR - 128053530; IL NELAC - 100453; IA DNR - 294; MN DoH - 055-999-366; ND DoH R-046; AR DEQ - 88-0808

Unless sub-contracted (see above), volatiles analyses (including VOC, PVOC, GRO, BTEX and TPH Gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at 602 Commerce Drive, Watertown WI 53094.

Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

For questions regarding this report, please contact Dan Milewsky or Warren Topel.

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

01/10/2005  
Job No: 04.13403  
Sample No: 602014  
Account No: 53480  
Page 3 of 3

JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Soil Analysis  
SAMPLE DESCRIPTION: S702  
Rec'd on ice

Date/Time Taken: 12/29/2004 UNKNOWN Date Received: 12/30/2004

Parameter	Results	Units	Reporting	Method	Date	Prep/Run	
			Limit		Analyzed	Analyst	Batch
Solids, Total	95.0	%	n/a	SW 5035	01/06/2005	ecl	5922
Lead, AA	10	mg/kg	4.0	SW 7420	01/10/2005	gaf	2900 1474
DRO Extraction	01/05/2005			WDNR	01/05/2005	jvk	2112
PVOC - NONAQUEOUS	J						
Benzene	<26	ug/kg	25	SW 8020	01/05/2005	pju	5085
Ethylbenzene	<26	ug/kg	25	SW 8020	01/05/2005	pju	5085
Methyl-t-butyl ether	<26	ug/kg	25	SW 8020	01/05/2005	pju	5085
Toluene	<26	ug/kg	25	SW 8020	01/05/2005	pju	5085
1,2,4-Trimethylbenzene	<26	ug/kg	25	SW 8020	01/05/2005	pju	5085
1,3,5-Trimethylbenzene	<26	ug/kg	25	SW 8020	01/05/2005	pju	5085
Xylenes, Total	<79	ug/kg	75	SW 8020	01/05/2005	pju	5085
Surr: Bromofluorobenzene	101	%	80-	SW 8020	01/05/2005	pju	5085
TPH-GRO-NONAQUEOUS	<5.3	mg/kg	5.0	Mod GRO	01/05/2005	pju	1266
TPH-DRO-NONAQUEOUS	<5.3	mg/kg	5.0	Mod DRO	01/05/2005	jts	2112 3699

Check office originating request

954 Circle Drive  
Green Bay, WI 54304  
920-592-8400  
FAX 920-592-8444

330 South 4th Avenue  
Park Falls, WI 54552  
715-762-1544  
Fax 715-762-1844

647 Academy Drive  
Northbrook, IL 60062  
847-562-8577  
FAX 847-562-8552

3349 Southgate Court SW #102  
Cedar Rapids, IA 52404  
319-365-0466  
FAX 319-365-0464

1214 W. Venture Ct.  
Mequon, WI 53092  
262-241-3133  
FAX 262-241-8222

1203 Storbeck Drive  
Waupun, WI 53963  
920-324-8600  
FAX 920-324-3023

203 West Upham Street  
Marshfield, WI 54449  
715-486-1300  
FAX 715-486-1313

15851 S. U.S. 27 - Bldg. 30, Suite 318  
Lansing, MI 48906  
517-702-0470  
FAX 517-702-0477

4.13403

Project No: <u>TOJ-01-2201-2830</u> Task No: _____		Laboratory: <u>Test America</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input type="checkbox"/> yes <input type="checkbox"/> no															
Project Location: <u>JACKSON</u> (city)		Wisconsin DNR Certification #:		Method of shipment _____ Contents Temperature _____ °C Refrigerator No. _____															
Project Manager: <u>ROB SANBORN</u>		Laboratory Contact: <u>Dan M</u>		<b>ANALYSES REQUESTED</b>															
Sampler: (name) <u>CHRIS HATFIELD</u>		Price Quote:																	
Sampler: (Signature) <u>Chris Hatfield</u>		<b>TURNAROUND TIME REQUIRED</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush																	
Sampling Date(s): <u>12/29/04</u>																			
Reports to be Sent to: <u>Chris H</u>		Date Needed _____		<table border="1"> <tr> <td>DFO (WI Modified Method)</td> <td>GPO (WI Modified Method)</td> <td>BETX (EPA Method 8020)</td> <td>PVOC (EPA Method 8020)</td> <td>VOC (EPA Method 8021)</td> <td>PAH (EPA Method )</td> <td>Pb (EPA Method 7421)</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>		DFO (WI Modified Method)	GPO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method )	Pb (EPA Method 7421)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DFO (WI Modified Method)	GPO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)			VOC (EPA Method 8021)	PAH (EPA Method )	Pb (EPA Method 7421)											
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
Lab ID No.	Sample No.	Collection Date / Time				No. of Containers, Size & Type	Description			Preservative									
	<u>5702</u>	<u>12/29</u>				<u>3 - 2oz jugs</u>	<u>Water</u>	<u>Soil</u>	<u>Other</u>	<u>Meth, ice</u>									

Packed for Shipping by: <u>Chris H</u>		Comments: <u>juice</u>			
Shipment Date: <u>12/30/04</u>					
Relinquished By: <u>Chris H</u>	Date: <u>12/30/04</u>	Relinquished By: <u>[Signature]</u>	Date: <u>12/30/04</u>	Relinquished By: _____	Date: _____
Company: <u>NET</u>	Time: _____	Company: <u>T.A.</u>	Time: <u>1:33p</u>	Company: _____	Time: _____
Received By: <u>[Signature]</u>	Date: <u>12/30/04</u>	Received By: <u>Schedik</u>	Date: <u>12/30/04</u>	Received By: _____	Date: _____
Company: <u>T.A.</u>	Time: <u>10:10</u>	Company: _____	Time: <u>1425</u>	Company: _____	Time: _____

2.1.01.37.12.11



# Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

CHRIS HATFIELD  
 NORTHERN ENVIRONMENTAL  
 12075 N. CORPORATE PARKWAY  
 MEQUON WI 53092

Report 28-Feb-07

Project Name JACKSON  
 Project # TOJ 01-2200-2830  
 Lab 5012296A  
 Sample ID S1302  
 Sample Soil  
 Sample Date 9/9/2005

Invoice # E12296

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
General									
General									
Solids Percent	91.0	%			1	5021	9/14/2005	CJR	1
Inorganic									
Metals									
Lead, Total	40	mg/kg	0.035	5	1	6010B	9/19/2005	SE	1
Organic									
General									
Diesel Range Organics	< 10	mg/kg	0.72	2.3	1	DRO95	9/16/2005	MJR	1
Gasoline Range Organics	< 10	mg/kg	3	9.5	1	GRO95/8021	9/15/2005	CJR	1
VOC's									
Benzene	< 25	ug/kg	8.2	26	1	8260B	9/15/2005	CJR	1
Bromobenzene	< 25	ug/kg	20	62	1	8260B	9/15/2005	CJR	1
Bromodichloromethane	< 25	ug/kg	16	50	1	8260B	9/15/2005	CJR	1
Bromoform	< 25	ug/kg	24	76	1	8260B	9/15/2005	CJR	1
tert-Butylbenzene	< 25	ug/kg	7.7	24	1	8260B	9/15/2005	CJR	1
sec-Butylbenzene	< 25	ug/kg	6.7	21	1	8260B	9/15/2005	CJR	1
n-Butylbenzene	< 25	ug/kg	4.3	14	1	8260B	9/15/2005	CJR	1
Carbon Tetrachloride	< 25	ug/kg	14	44	1	8260B	9/15/2005	CJR	1
Chlorobenzene	< 25	ug/kg	14	46	1	8260B	9/15/2005	CJR	1
Chloroethane	< 25	ug/kg	23	74	1	8260B	9/15/2005	CJR	1
Chloroform	< 25	ug/kg	8.2	26	1	8260B	9/15/2005	CJR	1
Chloromethane	< 25	ug/kg	19	60	1	8260B	9/15/2005	CJR	1
2-Chlorotoluene	< 25	ug/kg	4.7	15	1	8260B	9/15/2005	CJR	1
4-Chlorotoluene	< 25	ug/kg	4.3	14	1	8260B	9/15/2005	CJR	1
1,2-Dibromo-3-chloropropane	< 25	ug/kg	19	61	1	8260B	9/15/2005	CJR	1
Dibromochloromethane	< 25	ug/kg	18	56	1	8260B	9/15/2005	CJR	1
1,4-Dichlorobenzene	< 25	ug/kg	7.1	22	1	8260B	9/15/2005	CJR	1
1,3-Dichlorobenzene	< 25	ug/kg	17	53	1	8260B	9/15/2005	CJR	1

**Project Name** JACKSON  
**Project #** TOJ 01-2200-2830  
**Lab** 5012296A  
**Sample ID** S1302  
**Sample** Soil  
**Sample Date** 9/9/2005

**Invoice #** E12296

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
1,2-Dichlorobenzene	< 25	ug/kg	15	47	1	8260B	9/15/2005	CJR	1
Dichlorodifluoromethane	< 25	ug/kg	16	50	1	8260B	9/15/2005	CJR	1
1,2-Dichloroethane	< 25	ug/kg	16	50	1	8260B	9/15/2005	CJR	1
1,1-Dichloroethane	< 25	ug/kg	19	60	1	8260B	9/15/2005	CJR	1
1,1-Dichloroethene	< 25	ug/kg	25	78	1	8260B	9/15/2005	CJR	1
cis-1,2-Dichloroethene	< 25	ug/kg	22	69	1	8260B	9/15/2005	CJR	1
trans-1,2-Dichloroethene	< 25	ug/kg	23	75	1	8260B	9/15/2005	CJR	1
1,2-Dichloropropane	< 25	ug/kg	16	51	1	8260B	9/15/2005	CJR	1
2,2-Dichloropropane	< 25	ug/kg	25	79	1	8260B	9/15/2005	CJR	1
1,3-Dichloropropane	< 25	ug/kg	14	46	1	8260B	9/15/2005	CJR	1
Di-isopropyl ether	< 25	ug/kg	12	39	1	8260B	9/15/2005	CJR	1
EDB (1,2-Dibromoethane)	< 25	ug/kg	14	46	1	8260B	9/15/2005	CJR	1
Ethylbenzene	< 25	ug/kg	8	25	1	8260B	9/15/2005	CJR	1
Hexachlorobutadiene	< 25	ug/kg	24	78	1	8260B	9/15/2005	CJR	1
Isopropylbenzene	< 25	ug/kg	10	33	1	8260B	9/15/2005	CJR	1
p-Isopropyltoluene	< 25	ug/kg	9.2	29	1	8260B	9/15/2005	CJR	1
Methylene chloride	< 25	ug/kg	21	67	1	8260B	9/15/2005	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	12	37	1	8260B	9/15/2005	CJR	1
Naphthalene	< 25	ug/kg	11	35	1	8260B	9/15/2005	CJR	1
n-Propylbenzene	< 25	ug/kg	12	39	1	8260B	9/15/2005	CJR	1
1,1,2,2-Tetrachloroethane	< 25	ug/kg	18	58	1	8260B	9/15/2005	CJR	1
1,1,1,2-Tetrachloroethane	< 25	ug/kg	17	55	1	8260B	9/15/2005	CJR	1
Tetrachloroethene	< 25	ug/kg	18	57	1	8260B	9/15/2005	CJR	1
Toluene	< 25	ug/kg	13	41	1	8260B	9/15/2005	CJR	1
1,2,4-Trichlorobenzene	< 25	ug/kg	15	47	1	8260B	9/15/2005	CJR	1
1,2,3-Trichlorobenzene	< 25	ug/kg	20	62	1	8260B	9/15/2005	CJR	1
1,1,1-Trichloroethane	< 25	ug/kg	21	67	1	8260B	9/15/2005	CJR	1
1,1,2-Trichloroethane	< 25	ug/kg	21	67	1	8260B	9/15/2005	CJR	1
Trichloroethene (TCE)	< 25	ug/kg	15	46	1	8260B	9/15/2005	CJR	1
Trichlorofluoromethane	< 25	ug/kg	13	41	1	8260B	9/15/2005	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	12	37	1	8260B	9/15/2005	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	8.7	28	1	8260B	9/15/2005	CJR	1
Vinyl Chloride	< 25	ug/kg	13	39	1	8260B	9/15/2005	CJR	1
m&p-Xylene	< 50	ug/kg	31	99	1	8260B	9/15/2005	CJR	1
o-Xylene	< 25	ug/kg	20	64	1	8260B	9/15/2005	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code	Comment
1	Laboratory QC within limits.

**Authorized Signature** *Michael J. Ricker*

Check office originating request

954 Circle Drive  
Green Bay, WI 54304  
920-592-8400  
FAX 920-592-8444

330 South 4th Avenue  
Park Falls, WI 54552  
715-762-1544  
Fax 715-762-1844

647 Academy Drive  
Northbrook, IL 60062  
847-562-8577  
FAX 847-562-8552

3349 Southgate Court SW #102  
Cedar Rapids, IA 52404  
319-365-0466  
FAX 319-365-0464

1214 W. Venture Ct.  
Mequon, WI 53092  
262-241-3133  
FAX 262-241-8222

1203 Starbeck Drive  
Waupun, WI 53963  
920-324-8600  
FAX 920-324-3023

203 West Upham Street  
Marshfield, WI 54449  
715-486-1300  
FAX 715-486-1313

15851 S. U.S. 27 - Bldg. 30, Suite 318  
Lansing, MI 48906  
517-702-0470  
FAX 517-702-0477

Project No: <u>TOJ-01-2200-2830</u>		Task No: <u>2830</u>		Laboratory: <u>Synex</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													
Project Location: <u>JACKSON</u>		Wisconsin DNR Certification #: <u>1445037560</u>		Laboratory Contact: <u>Mike K</u>		Method of shipment: <u>Duquoin</u>													
Project Manager: <u>CHRIS HATFIELD</u>		Price Quote: <u>PELFA</u>		Date Needed: _____		Contents Temperature: <u>on Ice</u> °C Refrigerator No. _____													
Sampler: (name) <u>CHRIS HATFIELD</u>		TURNAROUND TIME REQUIRED <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush		ANALYSES REQUESTED															
Sampler: (Signature) <u>Chris Hatfield</u>																			
Sampling Date(s): <u>9/9/05</u>		Reports to be Sent to: <u>Chris H</u>		DRO (WI Modified Method)		GRO (WI Modified Method)		BETX (EPA Method 8020)		PDOC (EPA Method 8020)		VOC (EPA Method 8021)		PAH (EPA Method)		Pb (EPA Method)			
Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PDOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method)	Pb (EPA Method)				
		Date	Time		Water	Soil	Other												
<u>501296A</u>	<u>S1302</u>	<u>9/9</u>	<u>930</u>	<u>2-40ml</u>		<u>X</u>	<u>MeOH, etc</u>	<u>X</u>	<u>X</u>			<u>X</u>	<u>X</u>						
Packed for Shipping by: <u>Chris Hatfield</u>		Comments:																	
Shipment Date: <u>9/9/05</u>																			
Relinquished By: <u>Chris Hatfield</u>		Date: <u>9/9/05</u>		Relinquished By:		Date:		Relinquished By:		Date:		Relinquished By:		Date:		Relinquished By:		Date:	
Company: <u>NETI</u>		Time:		Company:		Time:		Company:		Time:		Company:		Time:		Company:		Time:	
Received By: <u>[Signature]</u>		Date: <u>9-9-05</u>		Received By: <u>Chris Hatfield</u>		Date: <u>9/10/05</u>		Received By:		Date:		Received By:		Date:		Received By:		Date:	
Company: <u>[Signature]</u>		Time: <u>12:40</u>		Company: <u>SEL</u>		Time: <u>10:15</u>		Company:		Time:		Company:		Time:		Company:		Time:	



**APPENDIX E**

**GROUNDWATER LABORATORY ANALYTICAL REPORTS  
AND CHAIN-OF-CUSTODY RECORDS**



## ANALYTICAL REPORT

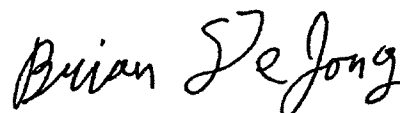
Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

01/21/2005  
Job No: 04.13621  
Page 1 of 8

The following samples were received by TestAmerica for analysis:

TOJ-01-2201-2830 Jackson

Sample Number	Sample Description	Date Taken	Date Received
602612	MW100	01/07/2005	01/10/2005



Brian DeJong  
Organic Operations Manager

NORTHERN ENVIRONMENTAL  
Job No: 04.13621

01/21/2005  
Page 2 of 8

## KEY TO DATA FLAGS

The attached sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed/extracted past hold time	B = Blank is contaminated
C = Standard outside of control limits	D = Diluted for analysis
E = TCLP extraction outside of method required temperature range	G = Received past hold time
F = Sample filtered in lab	H = Late eluting hydrocarbons present
H = Late eluting hydrocarbons present	I = Improperly handled sample
J = Estimated concentration	L = Common lab solvent
M = Matrix interference	P = Improperly preserved sample
Q = Result confirmed via re-analysis	S = Sediment present
T = Does not match typical pattern	W = BOD re-set due to missed dilution
X = Unidentified compound(s) present	Z = Internal standard outside limits
* = See Case Narrative	

## KEY TO ANALYST INITIALS

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that certification is not required for the work performed):

Lab Code	Certification Number
008	WDNR - 999766900
009	WDNR - 241293690
020	WDNR - 999447680
030	ILNELAC - 100230; WDNR - 998294430
060	ILNELAC - 100221; WDNR - 999447130
070	IA - 007; ILNELAC - 000668; MDH - 019-999-319; WDNR - 999917270
090	ILNELAC 200006; WDNR - 399031270
130	WDNR - 632021390
147	WDNR - 721026460
148	WDNR - 399017190
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
520	WDNR - 999518190; ILNELAC - 100439
700	WDNR - 113289110

TestAmerica Watertown Certifications: WI DNR - 128053530; IL NELAC - 100453; IA DNR - 294; MN DoH - 055-999-366; ND DoH R-046; AR DEQ - 88-0808

Unless sub-contracted (see above), volatiles analyses (including VOC, PVOC, GRO, BTEX and TPH Gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at 602 Commerce Drive, Watertown WI 53094.

Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

For questions regarding this report, please contact Dan Milewsky or Warren Topel.



## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

01/21/2005  
Job No: 04.13621  
Sample No: 602612  
Account No: 53480  
Page 3 of 8

JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW100

Date/Time Taken: 01/07/2005 UNKNOWN Date Received: 01/10/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Lead, GFAA	0.016	mg/L	0.0014	0.0051	EPA 239.2	01/20/2005	gaf	1526	2595
VOC - AQUEOUS - EPA 8260B									
Benzene	14,000	ug/L	0.20	0.67	SW 8260B	01/12/2005	mae	7037	
Bromobenzene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
Bromochloromethane	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
Bromodichloromethane	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
Bromoform	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
Bromomethane	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
n-Butylbenzene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
sec-Butylbenzene	6.0	ug/L	0.25	0.83	SW 8260B	01/11/2005	mae	7035	
tert-Butylbenzene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
Carbon Tetrachloride	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
Chlorobenzene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
Chlorodibromomethane	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
Chloroethane	<20	ug/L	1.0	3.3	SW 8260B	01/11/2005	mae	7035	
Chloroform	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
Chloromethane	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
2-Chlorotoluene	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
4-Chlorotoluene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
1,2-Dibromo-3-Chloropropane	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
1,2-Dibromoethane (EDB)	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
Dibromomethane	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
1,2-Dichlorobenzene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
1,3-Dichlorobenzene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
1,4-Dichlorobenzene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
Dichlorodifluoromethane	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
1,1-Dichloroethane	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
1,2-Dichloroethane	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
1,1-Dichloroethene	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
cis-1,2-Dichloroethene	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
trans-1,2-Dichloroethene	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
1,2-Dichloropropane	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
1,3-Dichloropropane	<5.0	ug/L	0.25	0.83	SW 8260B	01/11/2005	mae	7035	
2,2-Dichloropropane	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
1,1-Dichloropropene	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
cis-1,3-Dichloropropene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
trans-1,3-Dichloropropene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035	
Di-isopropyl ether	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	
Ethylbenzene	1,400	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035	

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

01/21/2005  
Job No: 04.13621  
Sample No: 602612  
Account No: 53480  
Page 4 of 8

JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW100

Date/Time Taken: 01/07/2005 UNKNOWN Date Received: 01/10/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Hexachlorobutadiene	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035
Isopropylbenzene	40	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035
p-Isopropyltoluene	5.6	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035
Methylene Chloride	<20	ug/L	1.0	3.3	SW 8260B	01/11/2005	mae	7035
Methyl-t-butyl ether	2,200	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035
Naphthalene	330	ug/L	0.25	0.83	SW 8260B	01/11/2005	mae	7035
n-Propylbenzene	99	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035
Styrene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035
1,1,1,2-Tetrachloroethane	<5.0	ug/L	0.25	0.83	SW 8260B	01/11/2005	mae	7035
1,1,2,2-Tetrachloroethane	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035
Tetrachloroethene	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035
Toluene	3,800	ug/L	0.20	0.67	SW 8260B	01/12/2005	mae	7037
1,2,3-Trichlorobenzene	<5.0	ug/L	0.25	0.83	SW 8260B	01/11/2005	mae	7035
1,2,4-Trichlorobenzene	<5.0	ug/L	0.25	0.83	SW 8260B	01/11/2005	mae	7035
1,1,1-Trichloroethane	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035
1,1,2-Trichloroethane	<5.0	ug/L	0.25	0.83	SW 8260B	01/11/2005	mae	7035
Trichloroethene	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035
Trichlorofluoromethane	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035
1,2,3-Trichloropropane	<10	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035
1,2,4-Trimethylbenzene	780	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035
1,3,5-Trimethylbenzene	200	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035
Vinyl Chloride	<4.0	ug/L	0.20	0.67	SW 8260B	01/11/2005	mae	7035
Xylenes, Total	4,400	ug/L	0.50	1.7	SW 8260B	01/11/2005	mae	7035
Surr: Dibromofluoromethane	105	%		89-119	SW 8260B	01/11/2005	mae	7035
Surr: Toluene-d8	94	%		91-109	SW 8260B	01/11/2005	mae	7035
Surr: Bromofluorobenzene	103	%		89-114	SW 8260B	01/11/2005	mae	7035
PNA Extraction	Complete				SW 3510C	01/14/2005	jts	1307
PNA - 8310 AQUEOUS								
Acenaphthene	1.2	ug/L	0.33	1.2	SW 8310	01/17/2005	clj	1307 2053
Acenaphthylene	<1.7	ug/L	0.69	2.4	SW 8310	01/17/2005	clj	1307 2053
Anthracene	0.41	ug/L	0.038	0.13	SW 8310	01/17/2005	clj	1307 2053
Benzo(a)anthracene	<0.11	ug/L	0.044	0.15	SW 8310	01/17/2005	clj	1307 2053
Benzo(b)fluoranthene	<0.24	ug/L	0.098	0.35	SW 8310	01/17/2005	clj	1307 2053
Benzo(k)fluoranthene	<0.12	ug/L	0.049	0.18	SW 8310	01/17/2005	clj	1307 2053
Benzo(a)pyrene	<0.080	ug/L	0.032	0.11	SW 8310	01/17/2005	clj	1307 2053
Benzo(ghi)perylene	<0.30	ug/L	0.12	0.43	SW 8310	01/17/2005	clj	1307 2053
Chrysene	<0.10	ug/L	0.041	0.14	SW 8310	01/17/2005	clj	1307 2053
Dibenzo(a,h)anthracene	<0.32	ug/L	0.13	0.46	SW 8310	01/17/2005	clj	1307 2053
Fluoranthene	0.48	ug/L	0.081	0.29	SW 8310	01/17/2005	clj	1307 2053

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

01/21/2005  
Job No: 04.13621  
Sample No: 602612  
Account No: 53480  
Page 5 of 8

JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW100

Date/Time Taken: 01/07/2005 UNKNOWN Date Received: 01/10/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Fluorene	4.3	ug/L	0.062	0.22	SW 8310	01/17/2005	clj	1307	2053
Indeno(1,2,3-cd)pyrene	<0.16	ug/L	0.062	0.22	SW 8310	01/17/2005	clj	1307	2053
1-Methylnaphthalene	M 65	ug/L	0.32	1.1	SW 8310	01/17/2005	clj	1307	2053
2-Methylnaphthalene	M 86	ug/L	0.31	1.1	SW 8310	01/17/2005	clj	1307	2053
Naphthalene	M 230	ug/L	0.40	1.4	SW 8310	01/17/2005	clj	1307	2053
Phenanthrene	2.7	ug/L	0.030	0.10	SW 8310	01/17/2005	clj	1307	2053
Pyrene	0.19	ug/L	0.044	0.16	SW 8310	01/17/2005	clj	1307	2053
Surr: 2-Fluorobiphenyl	55	§		25-125	SW 8310	01/17/2005	clj	1307	2053

## QUALITY CONTROL REPORT BLANKS

01/21/2005

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

Job No: 04.13621  
Account No: 53480

Page 6 of 8

Job Description: TOJ-01-2201-2830 Jackson

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Lead, GFAA	1526	2595	<0.0014	0.0014	0.0051	mg/L
Lead, GFAA		2595	<0.0014	0.0014	0.0051	mg/L
VOC - AQUEOUS - EPA 8260B						
Bromobenzene		7035	<0.20	0.20	0.67	ug/L
Bromochloromethane		7035	<0.50	0.50	1.7	ug/L
Bromodichloromethane		7035	<0.20	0.20	0.67	ug/L
Bromoform		7035	<0.20	0.20	0.67	ug/L
Bromomethane		7035	<0.20	0.20	0.67	ug/L
n-Butylbenzene		7035	<0.20	0.20	0.67	ug/L
sec-Butylbenzene		7035	<0.25	0.25	0.83	ug/L
tert-Butylbenzene		7035	<0.20	0.20	0.67	ug/L
Carbon Tetrachloride		7035	<0.50	0.50	1.7	ug/L
Chlorobenzene		7035	<0.20	0.20	0.67	ug/L
Chlorodibromomethane		7035	<0.20	0.20	0.67	ug/L
Chloroethane		7035	<1.0	1.0	3.3	ug/L
Chloroform		7035	<0.20	0.20	0.67	ug/L
Chloromethane		7035	<0.20	0.20	0.67	ug/L
2-Chlorotoluene		7035	<0.50	0.50	1.7	ug/L
4-Chlorotoluene		7035	<0.20	0.20	0.67	ug/L
1,2-Dibromo-3-Chloropropane		7035	<0.50	0.50	1.7	ug/L
1,2-Dibromoethane (EDB)		7035	<0.20	0.20	0.67	ug/L
Dibromomethane		7035	<0.20	0.20	0.67	ug/L
1,2-Dichlorobenzene		7035	<0.20	0.20	0.67	ug/L
1,3-Dichlorobenzene		7035	<0.20	0.20	0.67	ug/L
1,4-Dichlorobenzene		7035	<0.20	0.20	0.67	ug/L
Dichlorodifluoromethane		7035	<0.50	0.50	1.7	ug/L
1,1-Dichloroethane		7035	<0.50	0.50	1.7	ug/L
1,2-Dichloroethane		7035	<0.50	0.50	1.7	ug/L
1,1-Dichloroethene		7035	<0.50	0.50	1.7	ug/L
cis-1,2-Dichloroethene		7035	<0.50	0.50	1.7	ug/L
trans-1,2-Dichloroethene		7035	<0.50	0.50	1.7	ug/L
1,2-Dichloropropane		7035	<0.50	0.50	1.7	ug/L
1,3-Dichloropropane		7035	<0.25	0.25	0.83	ug/L
2,2-Dichloropropane		7035	<0.50	0.50	1.7	ug/L
1,1-Dichloropropene		7035	<0.50	0.50	1.7	ug/L
cis-1,3-Dichloropropene		7035	<0.20	0.20	0.67	ug/L
trans-1,3-Dichloropropene		7035	<0.20	0.20	0.67	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT BLANKS

01/21/2005

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

Job No: 04.13621  
Account No: 53480

Page 7 of 8

Job Description: TOJ-01-2201-2830 Jackson

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Di-isopropyl ether		7035	<0.50	0.50	1.7	ug/L
Ethylbenzene		7035	<0.50	0.50	1.7	ug/L
Hexachlorobutadiene		7035	<0.50	0.50	1.7	ug/L
Isopropylbenzene		7035	<0.20	0.20	0.67	ug/L
p-Isopropyltoluene		7035	<0.20	0.20	0.67	ug/L
Methylene Chloride		7035	<1.0	1.0	3.3	ug/L
Methyl-t-butyl ether		7035	<0.50	0.50	1.7	ug/L
Naphthalene		7035	<0.25	0.25	0.83	ug/L
n-Propylbenzene		7035	<0.50	0.50	1.7	ug/L
Styrene		7035	<0.20	0.20	0.67	ug/L
1,1,1,2-Tetrachloroethane		7035	<0.25	0.25	0.83	ug/L
1,1,2,2-Tetrachloroethane		7035	<0.20	0.20	0.67	ug/L
Tetrachloroethene		7035	<0.50	0.50	1.7	ug/L
1,2,3-Trichlorobenzene		7035	<0.25	0.25	0.83	ug/L
1,2,4-Trichlorobenzene		7035	<0.25	0.25	0.83	ug/L
1,1,1-Trichloroethane		7035	<0.50	0.50	1.7	ug/L
1,1,2-Trichloroethane		7035	<0.25	0.25	0.83	ug/L
Trichloroethene		7035	<0.20	0.20	0.67	ug/L
Trichlorofluoromethane		7035	<0.50	0.50	1.7	ug/L
1,2,3-Trichloropropane		7035	<0.50	0.50	1.7	ug/L
1,2,4-Trimethylbenzene		7035	<0.20	0.20	0.67	ug/L
1,3,5-Trimethylbenzene		7035	<0.20	0.20	0.67	ug/L
Vinyl Chloride		7035	<0.20	0.20	0.67	ug/L
Xylenes, Total		7035	<0.50	0.50	1.7	ug/L
Surr: Dibromofluoromethane		7035	107.0		89-119	%
Surr: Toluene-d8		7035	92.6		91-109	%
Surr: Bromofluorobenzene		7035	102.4		89-114	%
VOC - AQUEOUS - EPA 8260B						
Benzene		7037	<0.20	0.20	0.67	ug/L
Toluene		7037	<0.20	0.20	0.67	ug/L
PNA - 8310 AQUEOUS						
Acenaphthene	1307	2053	<0.33	0.33	1.2	ug/L
Acenaphthylene	1307	2053	<0.69	0.69	2.4	ug/L
Anthracene	1307	2053	<0.038	0.038	0.13	ug/L
Benzo(a)anthracene	1307	2053	<0.044	0.044	0.15	ug/L
Benzo(b)fluoranthene	1307	2053	<0.098	0.098	0.35	ug/L
Benzo(k)fluoranthene	1307	2053	<0.049	0.049	0.18	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT BLANKS

01/21/2005

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

Job No: 04.13621  
Account No: 53480

Page 8 of 8

Job Description: TOJ-01-2201-2830 Jackson

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Benzo(a)pyrene	1307	2053	<0.032	0.032	0.11	ug/L
Benzo(ghi)perylene	1307	2053	<0.12	0.12	0.43	ug/L
Chrysene	1307	2053	<0.041	0.041	0.14	ug/L
Dibenzo(a,h)anthracene	1307	2053	<0.13	0.13	0.46	ug/L
Fluoranthene	1307	2053	<0.081	0.081	0.29	ug/L
Fluorene	1307	2053	<0.062	0.062	0.22	ug/L
Indeno(1,2,3-cd)pyrene	1307	2053	<0.062	0.062	0.22	ug/L
1-Methylnaphthalene	1307	2053	<0.32	0.32	1.1	ug/L
2-Methylnaphthalene	1307	2053	<0.31	0.31	1.1	ug/L
Naphthalene	1307	2053	<0.40	0.40	1.4	ug/L
Phenanthrene	1307	2053	<0.030	0.030	0.10	ug/L
Pyrene	1307	2053	<0.044	0.044	0.16	ug/L
Surr: 2-Fluorobiphenyl	1307	2053	85.8		25-125	%

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d







**ANALYTICAL REPORT**

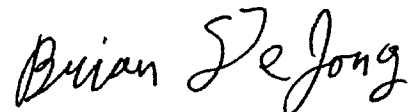
Mr. Chris Hatfield  
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Suite 210  
Mequon, WI 53092

04/14/2005  
Job No: 05.02837  
Page 1 of 16

The following samples were received by TestAmerica for analysis:

TOJ-01-2201-2830 Jackson

Sample Number	Sample Description	Date Taken	Date Received
612112	MW1	04/06/2005	04/12/2005
612113	MW2	04/06/2005	04/12/2005
612114	MW3	04/06/2005	04/12/2005
612115	MW4	04/06/2005	04/12/2005
612116	MW5	04/06/2005	04/12/2005
612117	Trip	04/06/2005	04/12/2005
612118	Dup	04/06/2005	04/12/2005



Brian DeJong  
Organic Operations Manager

NORTHERN ENVIRONMENTAL  
Job No: 05.02837

04/14/2005  
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## KEY TO DATA FLAGS

The attached sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed/extracted past hold time	B = Blank is contaminated
C = Standard outside of control limits	D = Diluted for analysis
E = TCLP extraction outside of method required temperature range	
F = Sample filtered in lab	G = Received past hold time
H = Late eluting hydrocarbons present	I = Improperly handled sample
J = Estimated concentration	L = Common lab solvent
M = Matrix interference	P = Improperly preserved sample
Q = Result confirmed via re-analysis	S = Sediment present
T = Does not match typical pattern	W = BOD re-set due to missed dilution
X = Unidentified compound(s) present	Z = Internal standard outside limits
* = See Case Narrative	

## KEY TO ANALYST INITIALS

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that certification is not required for the work performed):

Lab Code	Certification Number
008	WDNR - 999766900
013	WDNR - 999917160; ILNELAC - 100261
020	WDNR - 999447680
030	ILNELAC - 100230; WDNR - 998294430
070	IA - 007; ILNELAC - 000668; MDH - 019-999-319; WDNR - 999917270
090	ILNELAC 200006; WDNR - 399031270
130	WDNR - 632021390
147	WDNR - 721026460
148	WDNR - 399017190
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
700	WDNR - 113289110

TestAmerica Watertown Certifications: WI DNR - 128053530; IL NELAC - 100453; IA DNR - 294; MN DoH - 055-999-366; ND DoH R-046; AR DEQ - 88-0808

Unless sub-contracted (see above), volatiles analyses (including VOC, PVOC, GRO, BTEX and TPH Gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at 602 Commerce Drive, Watertown WI 53094.

Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

For questions regarding this report, please contact Dan Milewsky or Warren Topel.

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

04/14/2005  
Job No: 05.02837  
Sample No: 612112  
Account No: 53480  
Page 3 of 16

JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW1  
Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN

Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Lead, Dissolved, GFAA	0.014	mg/L	0.00044	0.0016	EPA 239.2	04/13/2005	gaf		2629
PVOC - AQUEOUS									
Benzene	6,700	ug/L	0.25	0.88	SW 8020	04/13/2005	jsm		1210
Ethylbenzene	1,500	ug/L	0.22	0.76	SW 8020	04/13/2005	jsm		1210
Methyl-t-butyl ether	M <36	ug/L	0.23	0.76	SW 8020	04/13/2005	jsm		1210
Toluene	9,000	ug/L	0.11	0.36	SW 8020	04/13/2005	jsm		1210
1,2,4-Trimethylbenzene	1,000	ug/L	0.25	0.86	SW 8020	04/13/2005	jsm		1210
1,3,5-Trimethylbenzene	260	ug/L	0.19	0.67	SW 8020	04/13/2005	jsm		1210
Xylenes, Total	6,400	ug/L	0.39	1.3	SW 8020	04/13/2005	jsm		1210
Surr: Bromofluorobenzene	92	%		80-	SW 8020	04/13/2005	jsm		1210
Naphthalene	350	ug/L	0.50	1.7	SW 8020	04/13/2005	jsm		6842

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

04/14/2005  
Job No: 05.02837  
Sample No: 612113  
Account No: 53480  
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JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW2  
Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Lead, Dissolved, GFAA	<0.00044	mg/L	0.00044	0.0016	EPA 239.2	04/13/2005	gaf	2629
VOC - AQUEOUS - EPA 8260B								
Benzene	1.1	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
Bromodichloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	04/13/2005	mae	7270
Chloroform	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

04/14/2005  
Job No: 05.02837  
Sample No: 612113  
Account No: 53480  
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JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW2  
Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN

Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	04/13/2005	mae	7270	
Methyl-t-butyl ether	2.4	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Naphthalene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Toluene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2,4-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Surr: Dibromofluoromethane	102	%		90-114	SW 8260B	04/13/2005	mae	7270	
Surr: Toluene-d8	99	%		91-106	SW 8260B	04/13/2005	mae	7270	
Surr: Bromofluorobenzene	101	%		96-106	SW 8260B	04/13/2005	mae	7270	

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

04/14/2005  
Job No: 05.02837  
Sample No: 612114  
Account No: 53480  
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JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW3  
Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Lead, Dissolved, GFAA	<0.00044	mg/L	0.00044	0.0016	EPA 239.2	04/13/2005	gaf		2629
VOC - AQUEOUS - EPA 8260B									
Benzene	100	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
Bromodichloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
n-Butylbenzene	0.41	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
sec-Butylbenzene	0.33	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae		7270
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	04/13/2005	mae		7270
Chloroform	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae		7270
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae		7270
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270
Ethylbenzene	15	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae		7270

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

04/14/2005  
Job No: 05.02837  
Sample No: 612114  
Account No: 53480  
Page 7 of 16

JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW3  
Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN

Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Isopropylbenzene	1.1	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	04/13/2005	mae	7270	
Methyl-t-butyl ether	10	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Naphthalene	4.6	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
n-Propylbenzene	1.7	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Toluene	4.6	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2,4-Trimethylbenzene	15	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,3,5-Trimethylbenzene	0.60	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Xylenes, Total	24	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Surr: Dibromofluoromethane	103	%		90-114	SW 8260B	04/13/2005	mae	7270	
Surr: Toluene-d8	99	%		91-106	SW 8260B	04/13/2005	mae	7270	
Surr: Bromofluorobenzene	100	%		96-106	SW 8260B	04/13/2005	mae	7270	

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

04/14/2005  
Job No: 05.02837  
Sample No: 612115  
Account No: 53480  
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JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW4  
Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	
Lead, Dissolved, GFAA	<0.00044	mg/L	0.00044	0.0016	EPA 239.2	04/13/2005	gaf	2629
VOC - AQUEOUS - EPA 8260B								
Benzene	70	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
Bromodichloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	04/13/2005	mae	7270
Chloroform	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270
Ethylbenzene	25	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270



## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

04/14/2005  
Job No: 05.02837  
Sample No: 612115  
Account No: 53480  
Page 9 of 16

JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW4  
Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN

Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Isopropylbenzene	0.85	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
p-Isopropyltoluene	0.21	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	04/13/2005	mae	7270	
Methyl-t-butyl ether	7.4	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Naphthalene	6.8	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
n-Propylbenzene	1.9	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Tetrachloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Toluene	19	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2,4-Trimethylbenzene	23	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,3,5-Trimethylbenzene	3.5	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Xylenes, Total	99	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Surr: Dibromofluoromethane	102	%		90-114	SW 8260B	04/13/2005	mae	7270	
Surr: Toluene-d8	99	%		91-106	SW 8260B	04/13/2005	mae	7270	
Surr: Bromofluorobenzene	101	%		96-106	SW 8260B	04/13/2005	mae	7270	

## ANALYTICAL REPORT

Mr. Chris Hatfield  
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04/14/2005  
Job No: 05.02837  
Sample No: 612116  
Account No: 53480  
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JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW5  
Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN

Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Lead, Dissolved, GFAA	<0.00044	mg/L	0.00044	0.0016	EPA 239.2	04/13/2005	gaf	2629	
VOC - AQUEOUS - EPA 8260B									
Benzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Bromobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Bromochloromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Bromodichloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Bromoform	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Bromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
n-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
sec-Butylbenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
tert-Butylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Carbon Tetrachloride	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Chlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Chlorodibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Chloroethane	<1.0	ug/L	1.0	3.3	SW 8260B	04/13/2005	mae	7270	
Chloroform	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Chloromethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
2-Chlorotoluene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
4-Chlorotoluene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,2-Dibromo-3-Chloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2-Dibromoethane (EDB)	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Dibromomethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,3-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,4-Dichlorobenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Dichlorodifluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,1-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2-Dichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,1-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
cis-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
trans-1,2-Dichloroethene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,3-Dichloropropane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
2,2-Dichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,1-Dichloropropene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
cis-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
trans-1,3-Dichloropropene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Di-isopropyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Ethylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
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04/14/2005  
Job No: 05.02837  
Sample No: 612116  
Account No: 53480  
Page 11 of 16

JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: MW5  
Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Hexachlorobutadiene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Isopropylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
p-Isopropyltoluene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Methylene Chloride	<1.0	ug/L	1.0	3.3	SW 8260B	04/13/2005	mae	7270	
Methyl-t-butyl ether	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Naphthalene	0.43	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
n-Propylbenzene	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Styrene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,1,1,2-Tetrachloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Tetrachloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Toluene	0.29	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,2,3-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,2,4-Trichlorobenzene	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,1,2-Trichloroethane	<0.25	ug/L	0.25	0.83	SW 8260B	04/13/2005	mae	7270	
Trichloroethene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Trichlorofluoromethane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
1,2,4-Trimethylbenzene	0.27	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Vinyl Chloride	<0.20	ug/L	0.20	0.67	SW 8260B	04/13/2005	mae	7270	
Xylenes, Total	<0.50	ug/L	0.50	1.7	SW 8260B	04/13/2005	mae	7270	
Surr: Dibromofluoromethane	103	%		90-114	SW 8260B	04/13/2005	mae	7270	
Surr: Toluene-d8	99	%		91-106	SW 8260B	04/13/2005	mae	7270	
Surr: Bromofluorobenzene	100	%		96-106	SW 8260B	04/13/2005	mae	7270	

## ANALYTICAL REPORT

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

04/14/2005  
Job No: 05.02837  
Sample No: 612117  
Account No: 53480  
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JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: Trip  
Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
PVOC - AQUEOUS									
Benzene	<0.25	ug/L	0.25	0.88	SW 8020	04/13/2005	jsm		1210
Ethylbenzene	<0.22	ug/L	0.22	0.76	SW 8020	04/13/2005	jsm		1210
Methyl-t-butyl ether	<0.23	ug/L	0.23	0.76	SW 8020	04/13/2005	jsm		1210
Toluene	<0.11	ug/L	0.11	0.36	SW 8020	04/13/2005	jsm		1210
1,2,4-Trimethylbenzene	<0.25	ug/L	0.25	0.86	SW 8020	04/13/2005	jsm		1210
1,3,5-Trimethylbenzene	<0.19	ug/L	0.19	0.67	SW 8020	04/13/2005	jsm		1210
Xylenes, Total	<0.39	ug/L	0.39	1.3	SW 8020	04/13/2005	jsm		1210
Surr: Bromofluorobenzene	102	%		80-	SW 8020	04/13/2005	jsm		1210
Naphtnalene	<0.50	ug/L	0.50	1.7	SW 8020	04/13/2005	jsm		6842

## ANALYTICAL REPORT

Mr. Chris Hatfield  
 NORTHERN ENVIRONMENTAL  
 12075 N. Corporate Pkwy  
 Suite 210  
 Mequon, WI 53092

04/14/2005  
 Job No: 05.02837  
 Sample No: 612118  
 Account No: 53480  
 Page 13 of 16

JOB DESCRIPTION: TOJ-01-2201-2830 Jackson  
 PROJECT DESCRIPTION: Groundwater Analysis  
 SAMPLE DESCRIPTION: Dup  
 Rec'd on ice

Date/Time Taken: 04/06/2005 UNKNOWN Date Received: 04/12/2005

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
PVOC - AQUEOUS									
Benzene	6,900	ug/L	0.25	0.88	SW 8020	04/13/2005	jsm	1210	
Ethylbenzene	1,500	ug/L	0.22	0.76	SW 8020	04/13/2005	jsm	1210	
Methyl-t-butyl ether	M <39	ug/L	0.23	0.76	SW 8020	04/13/2005	jsm	1210	
Toluene	9,200	ug/L	0.11	0.36	SW 8020	04/13/2005	jsm	1210	
1,2,4-Trimethylbenzene	1,100	ug/L	0.25	0.86	SW 8020	04/13/2005	jsm	1210	
1,3,5-Trimethylbenzene	260	ug/L	0.19	0.67	SW 8020	04/13/2005	jsm	1210	
Xylenes, Total	6,600	ug/L	0.39	1.3	SW 8020	04/13/2005	jsm	1210	
Surr: Bromofluorobenzene	92	%		80-	SW 8020	04/13/2005	jsm	1210	
Naphthalene	370	ug/L	0.50	1.7	SW 8020	04/13/2005	jsm	6842	

## QUALITY CONTROL REPORT BLANKS

04/14/2005

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

Job No: 05.02837  
Account No: 53480

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Job Description: TOJ-01-2201-2830 Jackson

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Lead, Dissolved, GFAA PVOC - AQUEOUS		2629	<0.00044	0.00044	0.0016	mg/L
Benzene		12107	<0.25	0.25	0.88	ug/L
Ethylbenzene		12107	<0.22	0.22	0.76	ug/L
Methyl-t-butyl ether		12107	<0.23	0.23	0.76	ug/L
Toluene		12107	<0.11	0.11	0.36	ug/L
1,2,4-Trimethylbenzene		12107	<0.25	0.25	0.86	ug/L
1,3,5-Trimethylbenzene		12107	<0.19	0.19	0.67	ug/L
Xylenes, Total		12107	<0.39	0.39	1.3	ug/L
Surr: Bromofluorobenzene		12107	98.0		80-	%
Naphthalene		6842	<0.50	0.50	1.7	ug/L
VOC - AQUEOUS - EPA 8260B						
Benzene		7270	<0.20	0.20	0.67	ug/L
Bromobenzene		7270	<0.20	0.20	0.67	ug/L
Bromochloromethane		7270	<0.50	0.50	1.7	ug/L
Bromodichloromethane		7270	<0.20	0.20	0.67	ug/L
Bromoform		7270	<0.20	0.20	0.67	ug/L
Bromomethane		7270	<0.20	0.20	0.67	ug/L
n-Butylbenzene		7270	<0.20	0.20	0.67	ug/L
sec-Butylbenzene		7270	<0.25	0.25	0.83	ug/L
tert-Butylbenzene		7270	<0.20	0.20	0.67	ug/L
Carbon Tetrachloride		7270	<0.50	0.50	1.7	ug/L
Chlorobenzene		7270	<0.20	0.20	0.67	ug/L
Chlorodibromomethane		7270	<0.20	0.20	0.67	ug/L
Chloroethane		7270	<1.0	1.0	3.3	ug/L
Chloroform		7270	<0.20	0.20	0.67	ug/L
Chloromethane		7270	<0.20	0.20	0.67	ug/L
2-Chlorotoluene		7270	<0.50	0.50	1.7	ug/L
4-Chlorotoluene		7270	<0.20	0.20	0.67	ug/L
1,2-Dibromo-3-Chloropropane		7270	<0.50	0.50	1.7	ug/L
1,2-Dibromoethane (EDB)		7270	<0.20	0.20	0.67	ug/L
Dibromomethane		7270	<0.20	0.20	0.67	ug/L
1,2-Dichlorobenzene		7270	<0.20	0.20	0.67	ug/L
1,3-Dichlorobenzene		7270	<0.20	0.20	0.67	ug/L
1,4-Dichlorobenzene		7270	<0.20	0.20	0.67	ug/L
Dichlorodifluoromethane		7270	<0.50	0.50	1.7	ug/L
1,1-Dichloroethane		7270	<0.50	0.50	1.7	ug/L

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT BLANKS

04/14/2005

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

Job No: 05.02837  
Account No: 53480

Page 15 of 16

Job Description: TOJ-01-2201-2830 Jackson

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
1,2-Dichloroethane		7270	<0.50	0.50	1.7	ug/L
1,1-Dichloroethene		7270	<0.50	0.50	1.7	ug/L
cis-1,2-Dichloroethene		7270	<0.50	0.50	1.7	ug/L
trans-1,2-Dichloroethene		7270	<0.50	0.50	1.7	ug/L
1,2-Dichloropropane		7270	<0.50	0.50	1.7	ug/L
1,3-Dichloropropane		7270	<0.25	0.25	0.83	ug/L
2,2-Dichloropropane		7270	<0.50	0.50	1.7	ug/L
1,1-Dichloropropene		7270	<0.50	0.50	1.7	ug/L
cis-1,3-Dichloropropene		7270	<0.20	0.20	0.67	ug/L
trans-1,3-Dichloropropene		7270	<0.20	0.20	0.67	ug/L
Di-isopropyl ether		7270	<0.50	0.50	1.7	ug/L
Ethylbenzene		7270	<0.50	0.50	1.7	ug/L
Hexachlorobutadiene		7270	<0.50	0.50	1.7	ug/L
Isopropylbenzene		7270	<0.20	0.20	0.67	ug/L
p-Isopropyltoluene		7270	<0.20	0.20	0.67	ug/L
Methylene Chloride		7270	<1.0	1.0	3.3	ug/L
Methyl-t-butyl ether		7270	<0.50	0.50	1.7	ug/L
Naphthalene		7270	<0.25	0.25	0.83	ug/L
n-Propylbenzene		7270	<0.50	0.50	1.7	ug/L
Styrene		7270	<0.20	0.20	0.67	ug/L
1,1,1,2-Tetrachloroethane		7270	<0.25	0.25	0.83	ug/L
1,1,2,2-Tetrachloroethane		7270	<0.20	0.20	0.67	ug/L
Tetrachloroethene		7270	<0.50	0.50	1.7	ug/L
Toluene		7270	<0.20	0.20	0.67	ug/L
1,2,3-Trichlorobenzene		7270	<0.25	0.25	0.83	ug/L
1,2,4-Trichlorobenzene		7270	<0.25	0.25	0.83	ug/L
1,1,1-Trichloroethane		7270	<0.50	0.50	1.7	ug/L
1,1,2-Trichloroethane		7270	<0.25	0.25	0.83	ug/L
Trichloroethene		7270	<0.20	0.20	0.67	ug/L
Trichlorofluoromethane		7270	<0.50	0.50	1.7	ug/L
1,2,3-Trichloropropane		7270	<0.50	0.50	1.7	ug/L
1,2,4-Trimethylbenzene		7270	<0.20	0.20	0.67	ug/L
1,3,5-Trimethylbenzene		7270	<0.20	0.20	0.67	ug/L
Vinyl Chloride		7270	<0.20	0.20	0.67	ug/L
Xylenes, Total		7270	<0.50	0.50	1.7	ug/L
Surr: Dibromofluoromethane		7270	103.6		90-114	%
Surr: Toluene-d8		7270	99.2		91-106	%

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT BLANKS

Mr. Chris Hatfield  
NORTHERN ENVIRONMENTAL  
12075 N. Corporate Pkwy  
Suite 210  
Mequon, WI 53092

04/14/2005

Job No: 05.02837  
Account No: 53480

Page 16 of 16

Job Description: TOJ-01-2201-2830 Jackson

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Surr: Bromofluorobenzene		7270	101.8		96-106	%

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d



Check office originating request

- |   |   |  |  |
|---|---|--|--|
| <input type="checkbox"/> 954 Circle Drive<br>Green Bay, WI 54304<br>920-592-8400<br>FAX 920-592-8444            | <input type="checkbox"/> 330 South 4th Avenue<br>Park Falls, WI 54552<br>715-762-1544<br>Fax 715-762-1844 | <input type="checkbox"/> 647 Academy Drive<br>Northbrook, IL 60062<br>847-562-8577<br>FAX 847-562-8552     | <input type="checkbox"/> 3349 Southgate Court SW #102<br>Cedar Rapids, IA 52404<br>319-365-0466<br>FAX 319-365-0464      |
| <input checked="" type="checkbox"/> 1214 W. Venture Ct.<br>Mequon, WI 53092<br>262-241-3133<br>FAX 262-241-8222 | <input type="checkbox"/> 1203 Storbeck Drive<br>Waupun, WI 53963<br>920-324-8600<br>FAX 920-324-3023      | <input type="checkbox"/> 203 West Upham Street<br>Marshfield, WI 54449<br>715-486-1300<br>FAX 715-486-1313 | <input type="checkbox"/> 15851 S. U.S. 27 - Bldg. 30, Suite 318<br>Lansing, MI 48906<br>517-702-0470<br>FAX 517-702-0477 |

Project No: <b>TOJ-01-2201-2830</b> Task No: _____		Laboratory: <b>Test America</b>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input type="checkbox"/> yes <input type="checkbox"/> no											
Project Location: <b>JACKSON</b>		Wisconsin DNR Certification #:		Method of shipment _____ Contents Temperature _____ °C Refrigerator No. _____											
Project Manager: <b>ROB SANBORN</b>		Laboratory Contact:		<b>ANALYSES REQUESTED</b>  DRO (WI Modified Method) _____ GRO (WI Modified Method) _____ BETX (EPA Method 8020) _____ PVOC (EPA Method 8020) _____ VOC (EPA Method 8021) _____ PAH (EPA Method _____) _____ Pb (EPA Method _____) _____ <i>Water - Dissolved</i>											
Sampler: (name) <b>CHRIS HATFIELD</b>		Price Quote:													
Sampler: (Signature) <i>Chris Hatfield</i>		<b>TURNAROUND TIME REQUIRED</b> <input checked="" type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush													
Sampling Date(s): <b>4/6/05</b>		Date Needed: <b>4/18/05</b>													
Reports to be Sent to: <b>Chris H</b>															
Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO	GRO	BETX	PVOC	VOC	PAH	Pb
		Date	Time		Water	Soil	Other								
	MW1	4/6/05		3-40ml 1-150ml	X			HCL, HNO <sub>3</sub> , HCl				X			X
	MW2				X							X			X
	MW3				X							X			X
	MW4				X							X			X
	MW5				X							X			X
	TRIP			1 vial	X							X			X
	DUP			3 vials	X							X			X
Packed for Shipping by: <i>Chris Hatfield</i>		Comments: <b>MW1 very contaminated</b> <i>actual</i>													
Shipment Date: <b>4/7/05</b>															
Relinquished By: <i>Chris Hatfield</i>		Date: <b>4/7/05</b>		Relinquished By: <i>[Signature]</i>		Date: <b>4/14/05</b>		Relinquished By: _____		Date: _____		Relinquished By: _____		Date: _____	
Company: _____		Time: _____		Company: <b>T.H.</b>		Time: <b>1520</b>		Company: _____		Time: _____		Company: _____		Time: _____	
Received By: <i>[Signature]</i>		Date: <b>4/12/05</b>		Received By: <i>[Signature]</i>		Date: <b>4/12</b>		Received By: _____		Date: _____		Received By: _____		Date: _____	
Company: <b>T.H.</b>		Time: <b>930</b>		Company: <i>[Signature]</i>		Time: <b>1505</b>		Company: _____		Time: _____		Company: _____		Time: _____	

*R 4/12/05*



# Synergy Environmental Lab, Inc.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

CHRIS HATFIELD  
 NORTHERN ENVIRONMENTAL  
 12075 N. CORPORATE PARKWAY  
 MEQUON WI 53092

Report 27-Feb-06

Project Name JACKSON  
 Project # TOJ 01-2200-2830  
 Lab 5013008A  
 Sample ID MW 1  
 Sample Water  
 Sample Date 2/7/2006

Invoice # E13008

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
Inorganic									
Metals									
Lead, Dissolved	5.9	ug/l	0.7	2.5	1	SW846 7421	2/14/2006	CWT	1
Organic									
PVOC + Naphthalene									
Benzene	9600	ug/l	6	19.5	50	GRO95/8021	2/15/2006	CJR	1
Ethylbenzene	1710	ug/l	25	80	50	GRO95/8021	2/15/2006	CJR	1
Methyl tert-butyl ether (MTBE)	268	ug/l	5.5	17.5	50	GRO95/8021	2/15/2006	CJR	1
Naphthalene	490	ug/l	60	200	50	GRO95/8021	2/15/2006	CJR	1
Toluene	10000	ug/l	6.5	20	50	GRO95/8021	2/15/2006	CJR	1
1,2,4-Trimethylbenzene	1200	ug/l	29	90	50	GRO95/8021	2/15/2006	CJR	1
1,3,5-Trimethylbenzene	312	ug/l	26.5	85	50	GRO95/8021	2/15/2006	CJR	1
m&p-Xylene	5200	ug/l	85	265	50	GRO95/8021	2/15/2006	CJR	1
o-Xylene	2170	ug/l	15	47	50	GRO95/8021	2/15/2006	CJR	1

Lab 5013008B  
 Sample ID MW 2  
 Sample Water  
 Sample Date 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
Organic									
PVOC + Naphthalene									
Benzene	< 0.12	ug/l	0.12	0.39	1	GRO95/8021	2/15/2006	CJR	1
Ethylbenzene	< 0.5	ug/l	0.5	1.6	1	GRO95/8021	2/15/2006	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.11	ug/l	0.11	0.35	1	GRO95/8021	2/15/2006	CJR	1
Naphthalene	< 1.2	ug/l	1.2	4	1	GRO95/8021	2/15/2006	CJR	1
Toluene	< 0.13	ug/l	0.13	0.4	1	GRO95/8021	2/15/2006	CJR	1
1,2,4-Trimethylbenzene	< 0.58	ug/l	0.58	1.8	1	GRO95/8021	2/15/2006	CJR	1
1,3,5-Trimethylbenzene	< 0.53	ug/l	0.53	1.7	1	GRO95/8021	2/15/2006	CJR	1

**Project Name** JACKSON  
**Project #** TOJ 01-2200-2830

**Invoice #** E13008

**Lab** 5013008B  
**Sample ID** MW 2  
**Sample** Water  
**Sample Date** 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
m&p-Xylene	< 1.7	ug/l	1.7	5.3	1	GRO95/8021	2/15/2006	CJR	1
o-Xylene	< 0.3	ug/l	0.3	0.94	1	GRO95/8021	2/15/2006	CJR	1

**Lab** 5013008C  
**Sample ID** MW 3  
**Sample** Water  
**Sample Date** 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
Organic									
PVOC + Naphthalene									
Benzene	7.3	ug/l	0.12	0.39	1	GRO95/8021	2/15/2006	CJR	1
Ethylbenzene	< 0.5	ug/l	0.5	1.6	1	GRO95/8021	2/15/2006	CJR	1
Methyl tert-butyl ether (MTBE)	17.8	ug/l	0.11	0.35	1	GRO95/8021	2/15/2006	CJR	1
Naphthalene	< 1.2	ug/l	1.2	4	1	GRO95/8021	2/15/2006	CJR	1
Toluene	< 0.13	ug/l	0.13	0.4	1	GRO95/8021	2/15/2006	CJR	1
1,2,4-Trimethylbenzene	< 0.58	ug/l	0.58	1.8	1	GRO95/8021	2/15/2006	CJR	1
1,3,5-Trimethylbenzene	< 0.53	ug/l	0.53	1.7	1	GRO95/8021	2/15/2006	CJR	1
m&p-Xylene	< 1.7	ug/l	1.7	5.3	1	GRO95/8021	2/15/2006	CJR	1
o-Xylene	< 0.3	ug/l	0.3	0.94	1	GRO95/8021	2/15/2006	CJR	1

**Lab** 5013008D  
**Sample ID** MW 4  
**Sample** Water  
**Sample Date** 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
Organic									
PVOC + Naphthalene									
Benzene	2760	ug/l	6	19.5	50	GRO95/8021	2/15/2006	CJR	1
Ethylbenzene	1040	ug/l	25	80	50	GRO95/8021	2/15/2006	CJR	1
Methyl tert-butyl ether (MTBE)	118	ug/l	5.5	17.5	50	GRO95/8021	2/15/2006	CJR	1
Naphthalene	302	ug/l	60	200	50	GRO95/8021	2/15/2006	CJR	1
Toluene	1400	ug/l	6.5	20	50	GRO95/8021	2/15/2006	CJR	1
1,2,4-Trimethylbenzene	670	ug/l	29	90	50	GRO95/8021	2/15/2006	CJR	1
1,3,5-Trimethylbenzene	108	ug/l	26.5	85	50	GRO95/8021	2/15/2006	CJR	1
m&p-Xylene	2050	ug/l	85	265	50	GRO95/8021	2/15/2006	CJR	1
o-Xylene	850	ug/l	15	47	50	GRO95/8021	2/15/2006	CJR	1

**Lab** 5013008E  
**Sample ID** MW 5  
**Sample** Water  
**Sample Date** 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
Organic									
PVOC + Naphthalene									
Benzene	< 0.12	ug/l	0.12	0.39	1	GRO95/8021	2/15/2006	CJR	1
Ethylbenzene	< 0.5	ug/l	0.5	1.6	1	GRO95/8021	2/15/2006	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.11	ug/l	0.11	0.35	1	GRO95/8021	2/15/2006	CJR	1
Naphthalene	< 1.2	ug/l	1.2	4	1	GRO95/8021	2/15/2006	CJR	1
Toluene	< 0.13	ug/l	0.13	0.4	1	GRO95/8021	2/15/2006	CJR	1
1,2,4-Trimethylbenzene	< 0.58	ug/l	0.58	1.8	1	GRO95/8021	2/15/2006	CJR	1
1,3,5-Trimethylbenzene	< 0.53	ug/l	0.53	1.7	1	GRO95/8021	2/15/2006	CJR	1

Project Name JACKSON  
 Project # TOJ 01-2200-2830

Invoice # E13008

Lab 5013008E  
 Sample ID MW 5  
 Sample Water  
 Sample Date 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
m&p-Xylene	< 1.7	ug/l	1.7	5.3	1	GRO95/8021	2/15/2006	CJR	1
o-Xylene	< 0.3	ug/l	0.3	0.94	1	GRO95/8021	2/15/2006	CJR	1

Lab 5013008F  
 Sample ID MW 6  
 Sample Water  
 Sample Date 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
<b>Inorganic</b>									
<b>Metals</b>									
Lead, Dissolved	< 0.7	ug/l	0.7	2.5	1	SW846 7421	2/14/2006	CWT	1
<b>Organic</b>									
<b>VOC's</b>									
Benzene	< 0.26	ug/l	0.26	0.83	1	8260B	2/16/2006	CJR	1
Bromobenzene	< 0.35	ug/l	0.35	1.1	1	8260B	2/16/2006	CJR	1
Bromodichloromethane	< 0.28	ug/l	0.28	0.9	1	8260B	2/16/2006	CJR	1
Bromoform	< 0.4	ug/l	0.4	1.3	1	8260B	2/16/2006	CJR	1
tert-Butylbenzene	< 0.34	ug/l	0.34	1.1	1	8260B	2/16/2006	CJR	1
sec-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B	2/16/2006	CJR	1
n-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B	2/16/2006	CJR	1
Carbon Tetrachloride	< 0.25	ug/l	0.25	0.81	1	8260B	2/16/2006	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.82	1	8260B	2/16/2006	CJR	1
Chloroethane	< 0.37	ug/l	0.37	1.2	1	8260B	2/16/2006	CJR	1
Chloroform	< 0.78	ug/l	0.78	2.5	1	8260B	2/16/2006	CJR	1
Chloromethane	< 1.1	ug/l	1.1	3.4	1	8260B	2/16/2006	CJR	1
2-Chlorotoluene	< 0.42	ug/l	0.42	1.3	1	8260B	2/16/2006	CJR	1
4-Chlorotoluene	< 0.24	ug/l	0.24	0.77	1	8260B	2/16/2006	CJR	1
1,2-Dibromo-3-chloropropane	< 4.1	ug/l	4.1	13	1	8260B	2/16/2006	CJR	1
Dibromochloromethane	< 0.74	ug/l	0.74	2.4	1	8260B	2/16/2006	CJR	1
1,4-Dichlorobenzene	< 0.69	ug/l	0.69	2.2	1	8260B	2/16/2006	CJR	1
1,3-Dichlorobenzene	< 0.64	ug/l	0.64	2	1	8260B	2/16/2006	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.7	1	8260B	2/16/2006	CJR	1
Dichlorodifluoromethane	< 0.2	ug/l	0.2	0.63	1	8260B	2/16/2006	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.8	1	8260B	2/16/2006	CJR	1
1,1-Dichloroethane	< 0.91	ug/l	0.91	2.9	1	8260B	2/16/2006	CJR	1
1,1-Dichloroethene	< 0.2	ug/l	0.2	0.64	1	8260B	2/16/2006	CJR	1
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.87	1	8260B	2/16/2006	CJR	1
trans-1,2-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B	2/16/2006	CJR	1
1,2-Dichloropropane	< 0.37	ug/l	0.37	1.2	1	8260B	2/16/2006	CJR	1
2,2-Dichloropropane	< 0.34	ug/l	0.34	1.1	1	8260B	2/16/2006	CJR	1
1,3-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	8260B	2/16/2006	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B	2/16/2006	CJR	1
EDB (1,2-Dibromoethane)	< 0.58	ug/l	0.58	1.9	1	8260B	2/16/2006	CJR	1
Ethylbenzene	< 0.3	ug/l	0.3	0.97	1	8260B	2/16/2006	CJR	1
Hexachlorobutadiene	< 1.6	ug/l	1.6	5.2	1	8260B	2/16/2006	CJR	1
Isopropylbenzene	< 0.56	ug/l	0.56	1.8	1	8260B	2/16/2006	CJR	1
p-Isopropyltoluene	< 0.5	ug/l	0.5	1.6	1	8260B	2/16/2006	CJR	1
Methylene chloride	< 0.55	ug/l	0.55	1.8	1	8260B	2/16/2006	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.36	ug/l	0.36	1.2	1	8260B	2/16/2006	CJR	1
Naphthalene	< 0.85	ug/l	0.85	2.7	1	8260B	2/16/2006	CJR	1
n-Propylbenzene	< 0.56	ug/l	0.56	1.8	1	8260B	2/16/2006	CJR	1
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.93	1	8260B	2/16/2006	CJR	1
1,1,1,2-Tetrachloroethane	< 0.49	ug/l	0.49	1.6	1	8260B	2/16/2006	CJR	1
Tetrachloroethene	< 0.45	ug/l	0.45	1.4	1	8260B	2/16/2006	CJR	1

Project Name JACKSON  
 Project # TOJ 01-2200-2830

Invoice # E13008

Lab 5013008F  
 Sample ID MW 6  
 Sample Water  
 Sample Date 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
Toluene	< 0.52	ug/l	0.52	1.6	1	8260B	2/16/2006	CJR	1
1,2,4-Trichlorobenzene	< 1.1	ug/l	1.1	3.4	1	8260B	2/16/2006	CJR	1
1,2,3-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	1	8260B	2/16/2006	CJR	1
1,1,1-Trichloroethane	< 0.42	ug/l	0.42	1.3	1	8260B	2/16/2006	CJR	1
1,1,2-Trichloroethane	< 0.35	ug/l	0.35	1.1	1	8260B	2/16/2006	CJR	1
Trichloroethene (TCE)	< 0.37	ug/l	0.37	1.2	1	8260B	2/16/2006	CJR	1
Trichlorofluoromethane	< 0.48	ug/l	0.48	1.5	1	8260B	2/16/2006	CJR	1
1,2,4-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B	2/16/2006	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	8260B	2/16/2006	CJR	1
Vinyl Chloride	< 0.16	ug/l	0.16	0.52	1	8260B	2/16/2006	CJR	1
m&p-Xylene	< 0.79	ug/l	0.79	2.5	1	8260B	2/16/2006	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B	2/16/2006	CJR	1

Lab 5013008G  
 Sample ID MW 7  
 Sample Water  
 Sample Date 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
Inorganic									
Metals									
Lead, Dissolved	< 0.7	ug/l	0.7	2.5	1	SW846 7421	2/14/2006	CWT	1
Organic									
VOC's									
Benzene	< 0.26	ug/l	0.26	0.83	1	8260B	2/16/2006	CJR	1
Bromobenzene	< 0.35	ug/l	0.35	1.1	1	8260B	2/16/2006	CJR	1
Bromodichloromethane	< 0.28	ug/l	0.28	0.9	1	8260B	2/16/2006	CJR	1
Bromoform	< 0.4	ug/l	0.4	1.3	1	8260B	2/16/2006	CJR	1
tert-Butylbenzene	< 0.34	ug/l	0.34	1.1	1	8260B	2/16/2006	CJR	1
sec-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B	2/16/2006	CJR	1
n-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B	2/16/2006	CJR	1
Carbon Tetrachloride	< 0.25	ug/l	0.25	0.81	1	8260B	2/16/2006	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.82	1	8260B	2/16/2006	CJR	1
Chloroethane	< 0.37	ug/l	0.37	1.2	1	8260B	2/16/2006	CJR	1
Chloroform	< 0.78	ug/l	0.78	2.5	1	8260B	2/16/2006	CJR	1
Chloromethane	< 1.1	ug/l	1.1	3.4	1	8260B	2/16/2006	CJR	1
2-Chlorotoluene	< 0.42	ug/l	0.42	1.3	1	8260B	2/16/2006	CJR	1
4-Chlorotoluene	< 0.24	ug/l	0.24	0.77	1	8260B	2/16/2006	CJR	1
1,2-Dibromo-3-chloropropane	< 4.1	ug/l	4.1	13	1	8260B	2/16/2006	CJR	1
Dibromochloromethane	< 0.74	ug/l	0.74	2.4	1	8260B	2/16/2006	CJR	1
1,4-Dichlorobenzene	< 0.69	ug/l	0.69	2.2	1	8260B	2/16/2006	CJR	1
1,3-Dichlorobenzene	< 0.64	ug/l	0.64	2	1	8260B	2/16/2006	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.7	1	8260B	2/16/2006	CJR	1
Dichlorodifluoromethane	< 0.2	ug/l	0.2	0.63	1	8260B	2/16/2006	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.8	1	8260B	2/16/2006	CJR	1
1,1-Dichloroethane	< 0.91	ug/l	0.91	2.9	1	8260B	2/16/2006	CJR	1
1,1-Dichloroethene	< 0.2	ug/l	0.2	0.64	1	8260B	2/16/2006	CJR	1
cis-1,2-Dichloroethene	< 0.27	ug/l	0.27	0.87	1	8260B	2/16/2006	CJR	1
trans-1,2-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B	2/16/2006	CJR	1
1,2-Dichloropropane	< 0.37	ug/l	0.37	1.2	1	8260B	2/16/2006	CJR	1
2,2-Dichloropropane	< 0.34	ug/l	0.34	1.1	1	8260B	2/16/2006	CJR	1
1,3-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	8260B	2/16/2006	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B	2/16/2006	CJR	1
EDB (1,2-Dibromoethane)	< 0.58	ug/l	0.58	1.9	1	8260B	2/16/2006	CJR	1
Ethylbenzene	< 0.3	ug/l	0.3	0.97	1	8260B	2/16/2006	CJR	1

Project Name JACKSON  
 Project # TOJ 01-2200-2830

Invoice # E13008

Lab 5013008G  
 Sample ID MW 7  
 Sample Water  
 Sample Date 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
Hexachlorobutadiene	< 1.6	ug/l	1.6	5.2	1	8260B	2/16/2006	CJR	1
Isopropylbenzene	< 0.56	ug/l	0.56	1.8	1	8260B	2/16/2006	CJR	1
p-Isopropyltoluene	< 0.5	ug/l	0.5	1.6	1	8260B	2/16/2006	CJR	1
Methylene chloride	< 0.55	ug/l	0.55	1.8	1	8260B	2/16/2006	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.36	ug/l	0.36	1.2	1	8260B	2/16/2006	CJR	1
Naphthalene	< 0.85	ug/l	0.85	2.7	1	8260B	2/16/2006	CJR	1
n-Propylbenzene	< 0.56	ug/l	0.56	1.8	1	8260B	2/16/2006	CJR	1
1,1,2,2-Tetrachloroethane	< 0.29	ug/l	0.29	0.93	1	8260B	2/16/2006	CJR	1
1,1,1,2-Tetrachloroethane	< 0.49	ug/l	0.49	1.6	1	8260B	2/16/2006	CJR	1
Tetrachloroethene	< 0.45	ug/l	0.45	1.4	1	8260B	2/16/2006	CJR	1
Toluene	< 0.52	ug/l	0.52	1.6	1	8260B	2/16/2006	CJR	1
1,2,4-Trichlorobenzene	< 1.1	ug/l	1.1	3.4	1	8260B	2/16/2006	CJR	1
1,2,3-Trichlorobenzene	< 1.6	ug/l	1.6	5.1	1	8260B	2/16/2006	CJR	1
1,1,1-Trichloroethane	< 0.42	ug/l	0.42	1.3	1	8260B	2/16/2006	CJR	1
1,1,2-Trichloroethane	< 0.35	ug/l	0.35	1.1	1	8260B	2/16/2006	CJR	1
Trichloroethene (TCE)	< 0.37	ug/l	0.37	1.2	1	8260B	2/16/2006	CJR	1
Trichlorofluoromethane	< 0.48	ug/l	0.48	1.5	1	8260B	2/16/2006	CJR	1
1,2,4-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B	2/16/2006	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	8260B	2/16/2006	CJR	1
Vinyl Chloride	< 0.16	ug/l	0.16	0.52	1	8260B	2/16/2006	CJR	1
m&p-Xylene	< 0.79	ug/l	0.79	2.5	1	8260B	2/16/2006	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B	2/16/2006	CJR	1

Lab 5013008H  
 Sample ID DUP  
 Sample Water  
 Sample Date 2/7/2006

	Result	Unit	LOD	LOQ	Dil	Method	Run	Analyst	Code
Organic									
PVOC + Naphthalene									
Benzene	2540	ug/l	6	19.5	50	GRO95/8021	2/15/2006	CJR	1
Ethylbenzene	1050	ug/l	25	80	50	GRO95/8021	2/15/2006	CJR	1
Methyl tert-butyl ether (MTBE)	88	ug/l	5.5	17.5	50	GRO95/8021	2/15/2006	CJR	1
Naphthalene	330	ug/l	60	200	50	GRO95/8021	2/15/2006	CJR	1
Toluene	1910	ug/l	6.5	20	50	GRO95/8021	2/15/2006	CJR	1
1,2,4-Trimethylbenzene	800	ug/l	29	90	50	GRO95/8021	2/15/2006	CJR	1
1,3,5-Trimethylbenzene	194	ug/l	26.5	85	50	GRO95/8021	2/15/2006	CJR	1
m&p-Xylene	3000	ug/l	85	265	50	GRO95/8021	2/15/2006	CJR	1
o-Xylene	1220	ug/l	15	47	50	GRO95/8021	2/15/2006	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

1      Laboratory QC within limits.

Authorized Signature *Michael J. Ricker*

Check office originating request

954 Circle Drive  
Green Bay, WI 54304  
920-592-8400  
FAX 920-592-8444

330 South 4th Avenue  
Park Falls, WI 54552  
715-762-1544  
Fax 715-762-1844

647 Academy Drive  
Northbrook, IL 60062  
847-562-8577  
FAX 847-562-8552

3349 Southgate Court SW #102  
Cedar Rapids, IA 52404  
319-365-0466  
FAX 319-365-0464

1214 W. Venture Ct.  
Mequon, WI 53092  
262-241-3133  
FAX 262-241-8222

1203 Storbeck Drive  
Waupun, WI 53963  
920-324-8600  
FAX 920-324-3023

203 West Upham Street  
Marshfield, WI 54449  
715-486-1300  
FAX 715-486-1313

15851 S. U.S. 27 - Bldg. 30, Suite 318  
Lansing, MI 48906  
517-702-0470  
FAX 517-702-0477

Project No: <u>TOJ 01-2200-2830</u> Task No: <u>100</u>			Laboratory: <u>Synergy</u>			Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Method of shipment <u>Durban</u> Contents Temperature <u>ICE</u> °C Refrigerator No. _____											
Project Location: <u>JACKSON</u> (city)			Wisconsin DNR Certification #:			<b>ANALYSES REQUESTED</b>											
Project Manager: <u>CCH</u>			Laboratory Contact:														
Sampler: <u>Molly McElligott</u> (name)			Price Quote: <u>\$ Pec Fiat</u>			DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method )	Pb (EPA Method )	<u>Napthalene</u>	<u>Lead</u>			
Sampler: <u>Molly McElligott</u> (Signature)			<b>TURNAROUND TIME REQUIRED</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush														
Sampling Date(s): <u>2/7/06</u>																	
Reports to be Sent to: <u>CCH</u>			Date Needed _____														
Lab ID No.	Sample No.	Collection		No. of Containers, Size & Type	Description			Preservative	DRO (WI Modified Method)	GRO (WI Modified Method)	BETX (EPA Method 8020)	PVOC (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method )	Pb (EPA Method )	<u>Napthalene</u>	<u>Lead</u>
		Date	Time		Water	Soil	Other										
<u>S03-008A</u>	<u>MW1</u>	<u>2/7</u>		<u>3-40mL, 1-250</u>	<input checked="" type="checkbox"/>			<u>HCl, ice</u>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>B MW2</u>			<u>3-40mL</u>								<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>C MW3</u>											<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>D MW4</u>											<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>E MW5</u>											<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>F MW6</u>			<u>3-40mL, 1-250</u>								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>G MW7</u>			<u>3-40mL, 1-250</u>								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>H Dup</u>											<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Packed for Shipping by: <u>Molly McElligott</u>			Comments: <u>Samples for lead (MW1, MW6, MW7) could not be filtered on-site. They were put in 250 mL bottles, unpreserved. Add Dup per Chris Hedrick 2/10/06 CCR</u>														
Shipment Date: <u>2/8/06</u>																	
Relinquished By:			Date:			Relinquished By:			Date:			Relinquished By:			Date:		
Company:			Time:			Company:			Time:			Company:			Time:		
Received By: <u>Durban Co</u>			Date: <u>2-9-06</u>			Received By: <u>Christina Rom</u>			Date: <u>2/10/06</u>			Received By:			Date:		
Company:			Time:			Company: <u>SEL</u>			Time: <u>8:15</u>			Company:			Time:		