



March 7, 2019

Ms. Carrie Stoltz  
Wisconsin Department of Natural Resources  
107 Sutliff Avenue  
Rhinelander, WI 54501

**Re:**           **North Stevens Street**  
Rhinelander, Wisconsin

**Subject:**   **Exemption Request for Management of Soil**

Dear Ms. Stoltz:

The purpose of this letter is to request soil management exemption near identified former leaking underground storage tank (LUST) sites along North Stevens Street. It is submitted for your review and approval. The City of Rhinelander's upcoming reconstruction of roadway and utilities is along North Stevens Street from the cross street of Frederick to Chippewa Drive (Highway 17).

A '**Recommended Format for Exemption Request**' is attached. Two areas were identified as having petroleum impacted soil. The Former Speedway (Monster Mart) at 825 North Stevens Street and former Gallo Property (Denny's Equipment) at 909 North Stevens Street were investigated by collecting soil and groundwater samples in December 2018. Soil was evaluated with field screening tools and soil and groundwater samples were laboratory analyzed. Soil at these locations will be managed under Wisconsin Administrative Code NR 718.

The site locations are indicated on **Figure 1**. Soil boring and sample locations are shown on **Figures 2** and **3**. The summary of soil analytical results are displayed on **Table 1**.

#### **825 North Stevens Street**

Three borings, B-101, B-102, and B-103, were advanced within 825 North Stevens Street to beyond the groundwater table identified at 3.5 to 4 feet below ground surface (bgs). Soil samples were collected at 3 or 4 feet and 8 feet bgs for field screening of volatile organic compounds using a photoionization detector (PID). The PID results are displayed on the enclosed **soil boring logs**. The PID results ranged from 2.5 to 561.

Two soil samples collected from above the water table were submitted for laboratory analysis of petroleum volatile organic compounds (PVOC) plus naphthalene. Soil samples B-101 and B-102 at 4 feet bgs with PID results of 17.7 and 561, respectively, were submitted.

The soil samples did not have PVOC detected above laboratory detection levels. Naphthalene was detected at 85.1 and 94.8 micrograms per kilograms ( $\mu\text{g}/\text{kg}$ ). Both of these results were below limits of quantitation. PVOC and naphthalene were detected in the groundwater with benzene, naphthalene, and trimethylbenzenes exceeding Wisconsin Administrative Code NR 140 preventative action limits (PALs). Groundwater analytical data is summarized in **Table 2. Laboratory Reports** are enclosed.

An estimated amount of 900 cubic yards (1,350 tons), assuming a trench 20 feet wide and 8 feet deep for a length of 150 feet, will need to be properly managed. The excavated material, with prior Wisconsin Department of Natural Resources (WDNR) approval, may only be stockpiled at 825 North Stevens Street or within the City right of way. The final destination of the material may only be replaced in the same location it was removed from or hauled to an approved landfill. Contingency coordination for impacted soil disposal has been made with the Lincoln County Landfill (WDNR Facility License No. 3141). Lincoln County is allowed to accept petroleum impacted soil under their current WDNR approved Plan of Operation.

### **909 North Stevens Street**

Two borings, B-201 and B-202, were advanced within North Stevens Street to beyond the groundwater table identified at 4 feet below grade. Soil samples were collected at 4 and 8 feet bgs and field screened using a PID for the indication of volatile organic compounds. The PID results are displayed on the enclosed **soil boring logs** and only went as high as 3.6.

One soil sample was submitted for laboratory analysis of PVOC plus naphthalene. The soil sample did not have PVOC or naphthalene detected above laboratory detection levels.

Residual petroleum-impacted soil was previously mapped within the right-of-way of North Stevens Street at the corner of Pinos Street at B-202. An estimated 53 cubic yards (80 tons) of material will need to be properly managed by only being stockpiled at 909 North Stevens Street or within the North Stevens right of way. The final placement of the soil will need to be in the same location it was removed from or disposed of at the Lincoln County Landfill.

### **Conclusions and Recommendations**

Estimated volumes of soil to be managed are based upon limited site investigations. Actual volumes will be dependent on conditions encountered during excavations. Sand Creek will be on-site for these two identified impacted soil areas and will also be on-call, if needed, to evaluate impacted soil encountered during other excavations.

Based on our investigation, soil at 825 and 909 North Stevens Street will need to be managed appropriately. The excavated material, with prior WDNR approval, may only be replaced in the same location it was removed from or hauled to the Lincoln County Landfill.

Groundwater pumped at the location of 825 North Stevens Street during utility installation will need to be treated by the City's wastewater treatment facility or via some other ex-situ treatment.

If you have any questions or comments regarding the work that was performed or the site in general, please contact me via at 715.365.1818 or [hollie.depuydt@sand-creek.com](mailto:hollie.depuydt@sand-creek.com).

Sincerely,

**SAND CREEK CONSULTANTS, INC.**



Hollie DePuydt, PE  
Environmental Engineer

Enclosures:      Recommended Format for Exemption Request  
                         Figures 1, 2, and 3  
                         Tables 1 and 2  
                         Soil Boring Logs  
                         Laboratory Reports

cc/enc: Mr. Tim Kingman/City of Rhineland, via email only  
          Mr. Mark Barden/Town and Country, via email only

## **Recommended Format for Exemption Request**

## Section 1 – General Information and Fees

Identify the purpose of the exemption by checking each box that applies:

- Manage contaminated soil on the same response action site from which it was generated (§ NR 718.12).
- Manage contaminated soil at a site or facility that is different from the response action site from which it was generated (§ NR 718.12).
- Manage other solid waste at the same site from which it was generated (§ NR 718.15).

If none of the above boxes are checked, the proposed waste management activity cannot be exempted through Wis. Admin. Code § NR 718. Management of waste material from a site other than a response action site may be allowed after obtaining a “low hazard exemption” from the DNR Waste and Material Management Program. Guidance on a ‘low hazard exemption’ request is located: <http://dnr.wi.gov/files/PDF/pubs/wa/wa1645.pdf>.

Identify the applicable Wis. Admin. Code § NR 749 DNR review fees for this submittal by checking the applicable “On-Site Management Fee.” If material will be managed at a site or facility other than where it was generated, also select the appropriate “Off-Site Management Fee.” Record the combined fee sums in the space provided below.

NR 749 Fees for Requesting Wis. Admin. Code §§ NR 718.12 Soil or NR 718.15 Exemption			
Soil or Waste Managed on the Generating Property			
Action	Action Fee	WRRD Fee	On-Site MGMT Fee
<b>Interim Actions</b> per NR 708.11, with SMP and CO applied at other site/facility	\$700	No fee	<input type="checkbox"/> \$700
<b>Remedial Action Plan</b> approval, with SMP, without residual soil CO	\$1050	No fee	<input type="checkbox"/> \$1050
<b>Remedial Action Plan</b> approval, with SMP, with residual soil CO	\$1050	\$300	<input type="checkbox"/> \$1350
<b>SMP</b> submitted separately from a RAP or CO modification, without residual soil CO	\$700	No fee	<input type="checkbox"/> \$700
<b>SMP</b> submitted separately from a RAP or CO modification, with residual soil CO	\$700	\$300	<input type="checkbox"/> \$1000
<b>Closed Sites:</b> CO modification action, with SMP, without residual soil CO	\$1050	No fee	<input type="checkbox"/> \$1050
<b>Closed Sites:</b> CP modification action, with SMP, with residual soil CO	\$1050	\$300	<input type="checkbox"/> \$1350
Soil Managed on a Site or Facility other than the Generating Property			
Action	Action Fee	WRRD Fee	Off-Site MGMT Fee
<b>Interim Actions</b> per NR 708.11, with SMP and CO applied at other site/facility	\$700	\$350	<input type="checkbox"/> \$1050
<b>Interim Actions</b> per NR 708.11, with SMP and no CO applied at other site/facility	\$700	No fee	<input type="checkbox"/> \$700
<b>All other Actions</b> (Remedial actions, modifications to CO, etc.) with residual soil CO	\$700	\$300	<input type="checkbox"/> \$1000
<b>All other Actions</b> (Remedial actions, post closure modifications, etc.) with no residual soil CO	\$700	No fee	<input type="checkbox"/> \$700
<b>Total of On-Site Management Fee and Off-Site Management Fee</b>			<b>\$</b>

**Other:** If the request does not conform to one of the options above, summarize the request below and the fee that is being paid:

- 1) **SMP** – A Soil Management Plan submitted in accordance with NR 718.12 (1) and (2) or NR 718.15.
- 2) **“With residual soil CO”** - site will have a residual soil continuing obligation (e.g. engineering control, cap, or cover) applied at the source property at the end of the applicable action; remedial action approval, or approval by an addendum to the closure letter.
- 3) **“Without residual soil CO”** - site that will not have a residual soil continuing obligation applied at the source property at the end of the applicable action.
- 4) **WRRD** – Wisconsin Remediation and Redevelopment Database

## Section 2 –Property and Contact Information

Fill in all applicable portions of this section.


A. Information About the Site or Facility From Which Material is Proposed to be Excavated – Complete all applicable boxes						
<b>BRRTS No.</b> 03-44-001220 03-44-000831			<b>BRRTS Activity (Site) Name</b> Speedway Station Gallo Property			
<b>Response Action Site Address</b>  North Stevens Street (Adjacent to 825 and 909)			<b>VPLE No.</b>			
<b>City</b>  Rhineland			<b>Parcel ID No.</b>  North Stevens Street Right of way			
<b>State</b>  Wisconsin			<b>FID No.</b>			
<b>County</b>  Onieda			<b>Zip Code</b>  54501			
<b>WTM Coordinates</b>			<b>WTM Coordinates Represent</b>			
<b>X:</b> 566069.62		<b>Y:</b> 571998.37		<b>Source Area</b> <input type="checkbox"/>		<b>Parcel Center</b> <input checked="" type="checkbox"/>
$\frac{1}{4}$	$\frac{1}{4}$	<b>Sec:</b> 31/32		<b>T:</b> 37 N	<b>R:</b> 9	<b>E/W:</b> E
<b>Latitude:</b>			<b>Longitude:</b>			
<b>Current Zoning:</b> City right of way is not zoned			<b>Current Land Use:</b> City of Rhineland - North Stevens Street			

The Wis. Admin. Code §§ NR 718.12 and/or NR 718.15 exemption(s) will be issued to the Wis. Admin. Code § NR 700 responsible party identified below and to the owner of the receiving site or facility, if different than the generating site. If there is more than one responsible party or property owner, include the information requested below for each as a separate document and attach to this document. If the responsible party is not the owner of the site or facility, provide that information below.

<b>B. Responsible Party Information</b>			
<b>Responsible Party (RP) Name(s)</b> Not Applicable	<b>Company Name</b>		
<b>Signature(s)</b>			<b>Date</b>
<b>Mailing Address</b>	<b>City</b>	<b>State</b>	<b>ZIP Code</b>
<b>Phone # (include area code)</b>	<b>Email</b>		

<b>C. Owner Information for Site or Facility From Which Material is Proposed to be Excavated from, if Different than Responsible Party</b>			
<b>Responsible Party (RP) Name(s)</b> Not Applicable	<b>Company Name</b>		
<b>Signature(s)</b>			<b>Date</b>
<b>Mailing Address</b>	<b>City</b>	<b>State</b>	<b>ZIP Code</b>
<b>Phone No. (include area code)</b>	<b>Email</b>		

Fill in this next section if someone other than the responsible party and/or facility owner is preparing this submittal.

<b>D. Requestor Information</b>			
<b>Last Name</b>	<b>First</b>	<b>Organization/Business Name</b>	
Kingman	Tim	City of Rhinelander	
<b>Signature(s)</b>			<b>Date</b>
			3/7/2019
<b>Mailing Address</b>		<b>City</b>	<b>State</b> <b>ZIP Code</b>
135 S Stevens Street		Rhinelande	WI    54501
<b>Phone No. (Include area code)</b>		<b>Email</b>	
715.362.4731		tkingman@rhinelanderutilities.org	
<b>Check the box that describes the requestor's relationship to the generating property:</b> <input type="checkbox"/> Is the property owner's agent or consultant <input type="checkbox"/> Is renting or leasing the property <input type="checkbox"/> Is developing the property <input checked="" type="checkbox"/> Other, describe relationship: <u>Representative of City owned right of way</u>			

<b>E. Contact Information For Questions About this Request</b>			
<b>Last Name</b>	<b>First</b>	<b>Organization/Business Name</b>	
DePuydt	Hollie	Sand Creek Consultants, Inc.	
<b>Mailing Address</b>		<b>Email</b>	
580 Shepard Street Suite A		hollie.depuydt@sand-creek.com	
<b>City</b>		<b>Phone No. (include area code)</b>	
Rhinelande		715.365.1818	
<b>State</b>	<b>Zip Code</b>	<b>Relationship to Requestor (Same, Consultant, Developer, Etc.):</b>	
WI	54501	Consultant	



**F. Information About the Site or Facility Where Contaminated Soil Will Be Disposed, if at a Different Location Than The Site or Facility From Which it Was Generated**

Select if Same as Generating Property (and skip remainder of section)

<b>BRRTS No.</b>			<b>BRRTS Activity (Site) Name</b>		
<b>Receiving Site or Facility Address</b>			<b>VPLE No.</b>		
<b>City</b>			<b>Parcel ID No.</b>		
<b>State</b>			<b>FID No.</b>		
<b>County</b>			<b>Zip Code</b>		
<b>WTM Coordinates</b>			<b>WTM Coordinates Represent</b>		
<b>X:</b>		<b>Y:</b>		<b>Source Area</b> <input type="checkbox"/> <b>Parcel Center</b> <input type="checkbox"/>	
$\frac{1}{4}$	$\frac{1}{4}$	<b>Sec:</b>	<b>T:</b>	<b>R:</b>	<b>E/W:</b>
<b>Latitude:</b>			<b>Longitude:</b>		
<b>Current Zoning:</b>			<b>Current Land Use:</b>		

## G. Receiving Site or Facility (Source Property or Off-Site Property) Owner Information

*Provide the following information for the owner of the receiving site or facility. If there is more than one property owner include the information requested below for each as a separate document and attach to this form.*

<b>Property Owner Name(s)</b>  City of Rhinelander	<b>Company Name</b>		
<b>Mailing Address</b>  135 S Stevens Street	<b>City</b>  Rhinelander	<b>State</b>  WI	<b>ZIP Code</b>  54501
<b>Phone No. (include area code)</b>  715.362.4731	<b>Email</b>  tkingman@rhinelanderutilities.org		

### Section 3 – Waste Characterization

*Address the following items to describe the contaminated soil and/or other solid waste material that will be managed under this plan and demonstrate that it has been adequately characterized. Attach your responses to these items at the end of this document.*

- A. Describe the material proposed to be managed, including its general makeup, physical characteristics, the homogeneity of the material, the proportion of soil to other solid waste, and any other pertinent descriptors.

Native soil will be managed. The soil is silty sand from below the roadway to 8 feet.

- B. Describe the historic and current land use of the site or facility where the contaminated soil or other solid waste originates. State how this site or facility is zoned.

The current land use is North Stevens Street right of way. Contamination originated from adjacent properties, 825 and 909 North Stevens Street, from former gasoline stations. The street right of way is not zoned.

- C. Total volume of contaminated soil and/or other solid waste to be managed (cubic yards):

An estimated 953 cubic yards of petroleum-impacted soil are to be managed. Based on field observations, field soil screen, and potential further laboratory analysis, the volume of soil will depend on current soil quality.

- D. Describe identified contaminants and the source(s). Indicate whether contaminant concentrations exceed Wis. Admin. Code § NR 720 Residual Contaminant Levels. Include a summary table, map with sample locations, and relevant laboratory data.

Table 1 summarizes soil analytical results. Figures 2 and 3 show the sample locations. The laboratory reports are attached.

At soil borings B-101 and B-102, naphthalene was detected at 85.1 and 94.8 micrograms per kilograms ( $\mu\text{g}/\text{kg}$ ); both results are below the limits of quantitation.

In August 1996, during remedial excavation activities, benzene was detected at 89  $\mu\text{g}/\text{kg}$  in soil Sample 15.

- E. Describe the sampling activities conducted to characterize the material including where the samples were collected from, how sample locations were chosen, the sampling methods used, and when sampling activities were conducted.

Soil samples were collected from Geoprobe® soil sampling sleeves. Samples were collected in December 2018 for petroleum volatile organic compound (PVOC) plus naphthalene analysis. Soil samples were collect from 4 feet below ground surface (bgs).

- F. Explain how the sampling activities adequately characterized the contaminated soil or other solid waste proposed to be managed. Indicate whether the samples were analyzed for all contaminants previously identified at the site or facility where the material will be generated and analyzed for all contaminants potentially present at the site or facility considering current and historic land use.

Discuss how samples were collected from areas most likely to be contaminated and from material that will actually be managed under this exemption.

Field screening (photoionization detector [PID]) of soil across the excavation area was conducted. Soil samples were submitted for laboratory analysis based on field screening results.

- G. Total number of samples collected from this material and analyzed for contaminants of concern.

Ten soil samples were field screened using a PID. Three soil samples were collected and laboratory analyzed for PVOC plus naphthalene.

- H. Rate of sample collection per volume (samples/cubic yard).

Three samples per 953 cubic yards were laboratory analyzed, a ratio of 318 cubic yards per sample. Ten samples per 953 cubic yards were field screened, a ratio of 95 cubic yards per sample.

- I. Wis. Admin. Code § NR 718.12(1)(e) requires that samples collected to characterize soil be collected at a rate of one sample per 100 yards (for the first 600 yards) and one sample for each additional 300 yards of material, with a minimum of 2 samples. If the DNR pre-approved an alternative sampling plan, describe how the sampling that was conducted complied with a pre-approved plan. Provide the date the sampling plan was pre-approved and the name of the DNR person who approved the plan.

Adequate characterization of the soil to be managed has been done. In addition, the geologic profile of four soil borings across the excavation area have been documented. Further soil samples, may be collected during soil management to accomplish the one sample per 100 yards for the first 600 yards plus one sample per additional 300 yards.

## Section 4 – Project Description/Material Management Plan

Address the following items to describe the material management activities proposed to take place. Attach your responses to these items at the end of this document.

- A. Describe the waste management activities that will require a Wis. Admin. Codes §§ NR 718.12 or NR 718.15 exemption. Provide details on how and where waste material will be generated, transported and placed. Describe the depth of the proposed excavation of contaminated soil or other solid waste, and the depth that it will be placed at the receiving site. Describe any response actions proposed for the receiving site or facility to address the relocated contaminated material (such as the construction of a cap). Confirm the proposed material management will comply with Wis. Admin. Code § NR 726.13(1)(b) 1 through 5. Discuss how material management activities will fit in with the overall property remediation and/or development plans.

Impacted soil will be excavated during the City of Rhinelander road and utility replacement and upgrading along North Stevens Street. The average depth of excavation adjacent to 825 and 909 North Stevens Street will be 8 feet. Excavated material will be placed within the street right of way while the new infrastructure is installed. The material will be replaced in the same location it was excavated from.

The closed BRRTS LUST sites have been remediated to the extent practical and subsequently closed.

825 North Stevens Street	BRRTS No. 03-44-001220
909 North Stevens Street	BRRTS No. 03-44-000831

- B. Summarize the proposed schedule for implementation of the material management plan including anticipated start and end dates.

The exact dates are to be determined. The utility work will start in the spring 2019 and start at the intersection of Fredrick and North Stevens Streets.

- C. Describe any procedures that have been established, or methods that will be used, to identify previously undocumented contamination during the completion of this project (such as instrument field screening, visual inspections, etc.). Also describe any contingency procedures that have been established to address unexpected contamination. The discovery of a previously unknown contaminant release on a property must be immediately reported to the DNR using the ‘Notification for Hazardous Substance Discharge (non-emergency)’ form.

Laboratory analysis has already been completed. The results of the soil samples are enclosed. Additional field screening will be implemented at the time of the excavation. If warranted, additional laboratory analysis will be completed.

- D. Summarize how the proposed management activities will prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety, by assessing how all potential exposure and migration pathways of concern, including direct contact exposure, vapor intrusion, ground water, surface water, sediment and any other relevant pathway will be addressed by the proposed management.

The former LUST sites were investigated, remediated, and closed. The utility excavation and return of the soil will not adversely impact the environment. It will likely improve the natural attenuation of the soil by aeration allowing additional volatilization and aerobic decomposition of contaminants.

## Section 5 - Receiving Site or Facility Information

Describe the site or facility receiving the waste material by addressing the following items. Where applicable, attach your responses to these items at the end of this document.

- A. Is the receiving site or facility the same as the generating site? \_\_\_\_\_ Yes  No
- B. Describe the historic, current and proposed land use of the site(s) or facility(s) where the contaminated soil or other solid waste will be managed. How are these site(s) or facility(s) zoned?

The impacted soil is currently within the North Stevens Street right of way, impacted from adjacent properties. The material will be replaced in the same location it was removed from.

- C. Identify current uses of all properties adjacent to the site or facility. Check all that apply.

<b>Agricultural</b>	<b>N</b>	<b>S</b>	<b>E</b>	<b>W</b>	<b>NE</b>	<b>NW</b>	<b>SE</b>	<b>SW</b>
<b>Industrial</b>	<b>N</b>	<b>S</b>	<b>E</b>	<b>W</b>	<b>NE</b>	<b>NW</b>	<b>SE</b>	<b>SW</b>
<b>Recreational</b>	<b>N</b>	<b>S</b>	<b>E</b>	<b>W</b>	<b>NE</b>	<b>NW</b>	<b>SE</b>	<b>SW</b>
<b>Residential</b>	<b>N</b>	<b>S</b>	<b>E</b>	<b>W</b>	<b>NE</b>	<b>NW</b>	<b>SE</b>	<b>SW</b>
<b>Undeveloped</b>	<b>N</b>	<b>S</b>	<b>E</b>	<b>W</b>	<b>NE</b>	<b>NW</b>	<b>SE</b>	<b>SW</b>
<b>Commercial</b>	<input checked="" type="checkbox"/> <b>N</b>	<input checked="" type="checkbox"/> <b>S</b>	<input checked="" type="checkbox"/> <b>E</b>	<b>W</b>	<b>NE</b>	<b>NW</b>	<b>SE</b>	<b>SW</b>
<b>Other</b>	<b>N</b>	<b>S</b>	<input checked="" type="checkbox"/> <b>E</b>	<input checked="" type="checkbox"/> <b>W</b>	<b>NE</b>	<b>NW</b>	<b>SE</b>	<b>SW</b>

Describe 'Other' property use below:

The property is a road right of way.

- D. Briefly describe any previous environmental site investigations or remedial actions conducted at the site or facility. Describe the environmental condition of the portion of the receiving site or facility where waste will be placed including what contaminants are present, the environmental sampling conducted in that area, and whether identified contaminant concentrations exceed applicable standards.

The properties adjacent to North Stevens Street right of way were investigated and remediated with subsequent site closures. December 2018 sample analysis, adjacent to the sites within the right of way, indicates residual naphthalene concentrations below RCLs.

- E. Describe any environmentally sensitive areas at or near the site or facility where the contaminated soil will be managed.

Soil will be managed within the right of way and replaced in the same locations it originated from.

- F. Describe any other features of this property not addressed above that influence its suitability for the disposal of the contaminated soil or other solid waste.

The management of soil to be replaced in the original location is suitable for the end use.

- G. Briefly discuss the geology and hydrogeology of the receiving site or facility, including information from any previous remedial investigations and well logs or well construction records from nearby wells. Also, provide the information requested below indicating whether the response is based on regional or site specific information:

Depth to Bedrock (ft. below ground surface): 0-50  Regional  Site Specific

Bedrock Type:  Sandstone  Limestone/Dolomite  Metamorphic/Igneous

High Groundwater Level (ft. below ground surface): 4 feet  Regional  Site Specific

Groundwater Flow Direction: south  Regional  Site Specific

## Section 6 – Locational Criteria

Indicate if excavated waste material will be placed in any of the following locations:

- Within a floodplain.
- Within 100 feet of any wetland or critical habitat area.
- Within 300 feet of any navigable river, stream, lake, pond, or flowage.
- Within 100 feet of any on-site water supply well or 300 feet of any off-site water supply well.
- Within 3 feet of the high groundwater level.
- At a depth greater than the depth of the original excavation from which the contaminated soil was removed.

*If any of the above boxes are checked, an exemption from the indicated criteria must be requested as described below. If none of the above boxes are checked, and the proposed placement of waste material will not otherwise pose a threat to the public health, safety, or welfare of the environment, the proposed management activities will comply with the location criteria of Wis. Admin. Code § NR 718.12(1)(c) and you may skip ahead to Section 7.*

Include an explanation of why granting an exemption to the Wis. Admin. Code § NR 718.12(1)(c) locational criteria will not cause a threat to public health, safety, welfare and the environment by assessing how all potential exposure and migration pathways of concern, including direct contact exposure, vapor intrusion, ground water, surface water, sediment and any other relevant pathway will be addressed by the proposed management. Consider the quantity and characteristics of the waste being managed, the geologic and hydrogeological characteristics of the receiving site, the unavailability of other environmentally suitable alternatives, and whether the activities will comply with other state and federal regulations including other portions of Wis. Admin. Code §§ NR 700 to NR 754. Attach your response to the end of this document.

An exemption is requested to place material within 3 feet of the high groundwater mark. The static groundwater level is 2 to 4 feet bgs. The soil is currently within 3 feet of or below groundwater and will be replaced in its original location.

## Section 7 – Additional Information Required for Non-Metallic Mine Receiving Sites or Facilities

Complete this section if the proposed disposal facility is a non-metallic mine.

- A. Current depth to groundwater at facility (feet below ground surface): \_\_\_\_\_
- B. Has the facility been dewatered to allow mining?     Yes     No
- If yes, indicate the expected natural groundwater level when dewatering is terminated (feet below ground surface): \_\_\_\_\_
- C. Is waste proposed to be placed within 10 feet of the natural water table?     Yes\*     No  
    \* If yes, placement of the waste will not comply with Wis. Admin. Code §§ NR 503.08(1)(e) and NR 503.08(2)(d) .
- D. Include a copy of the reclamation plan indicating the placement of low level contaminated material is acceptable.
- E. Describe any design criteria established for the disposal site, include restrictions on material placement, engineered barrier requirements, etc. Attach your response to this item at the end of this document.

## Section 8 – Continuing Obligations at Receiving Site or Facility

Check the applicable boxes to indicate which continuing obligations will be specifically required to address the waste material being managed on the receiving property:

No Continuing Obligations

Residual Soil Contamination:

If contaminated soil managed under this soil management plan is excavated in the future, the property owner at the time of excavation will be responsible for the following:

- determine if contamination is present,
- determine whether the material would be considered solid or hazardous waste,
- ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules.

Contaminated soil may be managed in accordance with Wis. Admin. Code § NR 718, with prior DNR approval. In addition, all current and future property owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose a hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans. A historic fill exemption is required prior to construction of any structures over fill materials.



Depending on site-specific conditions, construction over contaminated soils or groundwater may also result in vapor migration of contaminants into enclosed structures or migration along underground utility lines. The potential for vapor intrusion and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Maintenance of a cover:

A soil cover/engineered cover/other has been placed over remaining contamination and this cover must be maintained. Inspections will be required, and submittal of inspection reports may be required. Certain activities which would disturb the cover or barrier will be prohibited. If the cover is approved for industrial land use, notification of the DNR is required before changing to a non-industrial use, to determine if the cover will be protective for that use. A maintenance plan is attached, which describes the maintenance activities to be required. If the DNR requires changes to the maintenance plan, an updated maintenance plan must be provided at the completion of the soil disposal action. A map is attached which shows the location of the extent of contaminated materials and the extent of the cover.

Use of Industrial Land Use Soil Standards:

Industrial soil standards have been applied for the site receiving the contaminated materials. The DNR must be notified if the property land use will change from industrial use to a non-industrial land use. Additional investigation and remediation may be required prior to the change in land use to ensure the site conditions are protective for the planned land use.

Vapor: Future Actions to Address Vapor Intrusion:

While vapor intrusion does not currently exist, if a building is constructed on this property, or reconstructed, or if use of a building is changed to a non-industrial use, vapor intrusion may be a concern. The DNR must be notified before construction of a building or changing the use of an existing building to non-industrial use. The use of vapor control technologies or an assessment of the potential for vapor intrusion will be required at that time.

Site specific condition:

*Describe the site specific condition:*

## **Section 9 – Figures**

*Attach to this form figures that clearly depict the items listed below. All maps should be drawn to scale not larger than 1 inch equal to 100 feet and labeled with the site or facility name and address. The location of the property and the specific disposal area must be provided in sufficient detail to allow DNR personnel to inspect these areas in the future. Providing a ‘cut/fill’ map that clearly depicts how much material will be removed or added to different areas of the involved property(ies) and depicting how material will be moved across the site is highly recommended. Providing cross sections that depict site conditions before and after soil management activities is also recommended.*

The boundaries of each property involved in the project as well as named and unnamed roads or access points, buildings and other surface features, underground utilities, land uses on adjacent properties, and known and potential sources of hazardous substances.

The location of wetlands, critical habitat areas, floodplains, surface water bodies, water supply wells, or other possible receptors located near or within the area where material will be managed.

- The lateral extent and depth of planned excavation, grading, or otherwise disturbed areas.
- The lateral extent and thickness of excavated material placement locations.
- Soil sample locations at the generating and receiving sites. Depict applicable soil contaminant concentration data and sample depths. Indicate the extent of contamination exceeding a RCL.
- Depth to groundwater.
- The extent of any performance standards (such as a barrier or cap) that will be required at the completion of management activities.

## **Section 10 - Additional Attachments**

*The following documents are recommended for inclusion with a Wis. Admin. Code § NR 718.12 or a Wis. Admin. Code § 718.15 exemption request. Indicate which of these documents are applicable to this request by checking the boxes below. Submit copies of the indicated documents with this document.*

- A table summarizing the analytical results of all soil/waste samples collected at the generating site or facility that meets the requirements of Wis. Admin. Code § 716.15(4)(e). Clearly indicate which of these samples were collected from material that is proposed to be managed.
- The analytical package for all samples listed on the above table. The package should include the sample results, chain of custody, sampling methods, and QA/QC data.
- A maintenance plan for any performance standard needed to address the material proposed to be managed. The plan should follow the format found in [DNR Form 4400-202, Attachment D](#).
- A copy of the reclamation plan for the receiving site or facility if it is a nonmetallic mine. Confirm the plan allows for acceptance of contaminated soil by marking relevant plan sections.
- Power of Attorney (if applicable, see Section 12).
- Deed for the property receiving the contaminated soil and or waste. If a certified survey map or plat map is referenced by this deed then also include those documents. If a map is not referenced in the deed, provide a copy of a parcel map depicting the property boundaries.


## Section 11 - Certification Statements

All exemption requests submitted to manage contaminated soil or other solid waste as an interim action or remedial action under Wis. Admin. Code §§ NR 708 or NR 722 must be prepared by, or prepared under, the supervision of a professional engineer. The professional engineer who prepared or supervised this exemption request should complete the following section.

Environmental Consultant Information	
<b>Firm Name</b> Sand Creek Consultants, Inc.	
<b>Mailing Address</b> 580 Shepard St Suite A	<b>State</b> WI
<b>City</b> Rhineland	<b>ZIP Code</b> 54501

Wis. Admin. Code § NR 712, entitled “Personnel Qualifications for Conducting Environmental Response Actions,” establishes minimum standards for experience and professional qualifications for persons who perform certain environmental services. This law applies to work conducted under Wis. Admin. Code § NR 718, unless specifically exempted.

**Note:** The following certification must be attached to confirm the Wis. Admin. Code § NR 718 exemption request was prepared by or under the supervision of a professional engineer under Wis. Admin. Code § NR 712.07.

Professional Engineer Information			
<b>Last Name</b> DePuydt	<b>First Name</b> Hollie		
<b>Mailing Address</b> 580 Shepard Street Suite A	<b>City</b> Rhineland	<b>State</b> WI	<b>ZIP Code</b> 54501
<b>Phone No. (include area code)</b> 715.365.1818	<b>Email</b> hollie.depuydt@sand-creek.com		
<p><b>“I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A–E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A–E 8, Wis. Adm. Code; and that, to the best of my knowledge, all 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.</b></p> <p><b>It is my professional opinion that the proposed soil management activity will not cause environmental pollution nor cause any other significant risk to public health, safety or welfare.”</b></p>			
<b>Signature</b> 	<b>Date</b> 3-4-2019	<b>Wisconsin Registration Number</b> E-42130	

## Section 12 - Signatures

*Each receiving site or facility property owner's signature must be included as part of this request. Attach additional copies of the signature page, if needed. If one of the owners of the receiving site or facility is acting on behalf of other owners, a power of attorney form or statement must be signed and attached to this agreement clearly granting the agent the authority to accept the contaminated soils on behalf of all other owners of the receiving site or facility whose signatures are not included on this agreement.*

<b>Owner(s) of Property Where Material is Placed</b>		
<b>Print Name</b>	<b>Signature</b>	<b>Date</b>
<b>Print Name</b>	<b>Signature</b>	<b>Date</b>
<b>Print Name</b>	<b>Signature</b>	<b>Date</b>
<b>Print Name</b>	<b>Signature</b>	<b>Date</b>
<p>I understand that by signing this application I certify that I will follow the conditions and limitations required by law and specified in the exemption issued to me as owner of the site or facility that will receive the contaminated soil. Further, I certify that the contaminated soil proposed to be managed under this exemption will be at a property that meets the definition of "site" or "facility" under Wis. Stats. Chapter 292 and Wis. Admin. Code Chapters §§ NR 700 – 754, and I understand that the material must be managed any time in the future as a solid waste with the department's approval. I understand that this exemption will be tracked in the Wisconsin Remediation and Redevelopment Database, and if required, will include maintenance and inspection by me of any continuing obligations, such as maintaining an engineering control or barrier over the contaminated material, and will also be subject to inspection by the department. I understand that the conditions on my site or facility may be subject to Wis. Stats. Chapter 709, Disclosures by Owners of Real Estate. I believe that the legal description for all properties where material will be managed is included with this submittal.</p>		

## RR Program Contacts

General questions regarding Wis. Admin. Code §§ NR 718.12 and 718.15 exemptions should be made to:

- Statewide: Paul Grittner, [Paul.Grittner@wisconsin.gov](mailto:Paul.Grittner@wisconsin.gov), (608) 266-0941
- Northeast Region: Kristin DuFresne, [Kristin.Dufresne@wisconsin.gov](mailto:Kristin.Dufresne@wisconsin.gov), (920) 662-5443
- Northern Region: Chris Saari, [Chris.Saari@wisconsin.gov](mailto:Chris.Saari@wisconsin.gov), (715) 685-2920
- South Central Region: Mike Schmoller, [Michael.Schmoller@wisconsin.gov](mailto:Michael.Schmoller@wisconsin.gov), (608) 275-3303
- Southeast Region:
  - Nancy Ryan, [Nancy.Ryan@wisconsin.gov](mailto:Nancy.Ryan@wisconsin.gov), (414) 263-8533
  - Linda Michalets, [Linda.Michalets@wisconsin.gov](mailto:Linda.Michalets@wisconsin.gov), (414) 263-8757
- West Central Region: Matt Thompson, [Matthew.Thompson@wisconsin.gov](mailto:Matthew.Thompson@wisconsin.gov), (715) 839-3750

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This document is intended solely as guidance and does not include any mandatory requirements except where requirements found in statute or administrative rule are referenced. This guidance does not establish or affect legal rights or obligations and is not finally determinative of any of the issues addressed. This guidance does not create any rights enforceable by any party in litigation with the State of Wisconsin or the Department of Natural Resources. Any regulatory decisions made by the Department of Natural Resources in any manner addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.

The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Chief, Public Civil Rights, Office of Civil Rights, U.S. Department of the Interior, 1849 C. Street, NW, Washington, D.C. 20240.

This publication is available in alternative format (large print, Braille, etc.) upon request. Please call for more information. Note: If you need technical assistance or more information, call the Accessibility Coordinator at 608-267-7490 / TTY Access via relay - 711

## **Figures**

**Figure 1 Site Location Map**

**Figure 2 825 N. Stevens Street Site Layout and Boring Location Map**

**Figure 3 909 N. Stevens Street Site Layout and Boring Location Map**





**Sand Creek Consultants, Inc.**

580 Shepard Street, Suite A  
 Rhinelander, WI 54501  
 Tel: 715.365.1818  
 Fax: 866.608.6473

SITE LOCATIONS

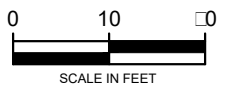
MARCH 2019

NORTH STEVENS STREET  
 RHINELANDER, WISCONSIN

FIGURE 1



### SITE LAYOUT AND BORING LOCATION MAP



825 N. STEVENS ST.  
RHINELANDER, WI

DATE: JANUARY 2019

SCALE: 1"=20'

DRAWN BY: KAP

APPROVED: HD

FIGURE 2



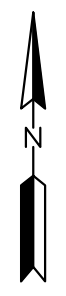
#### LEGEND

- PAVED DRIVEWAY
- ROAD CENTERLINE
- BUILDING
- CONCRETE
- BORING SAMPLE LOCATION
- SOIL MANAGEMENT AREA

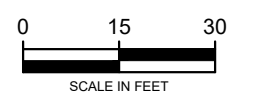
**NOTE:**

SITE LAYOUT DIGITIZED FROM GOOGLE EARTH  
IMAGE DATED JULY 2015.





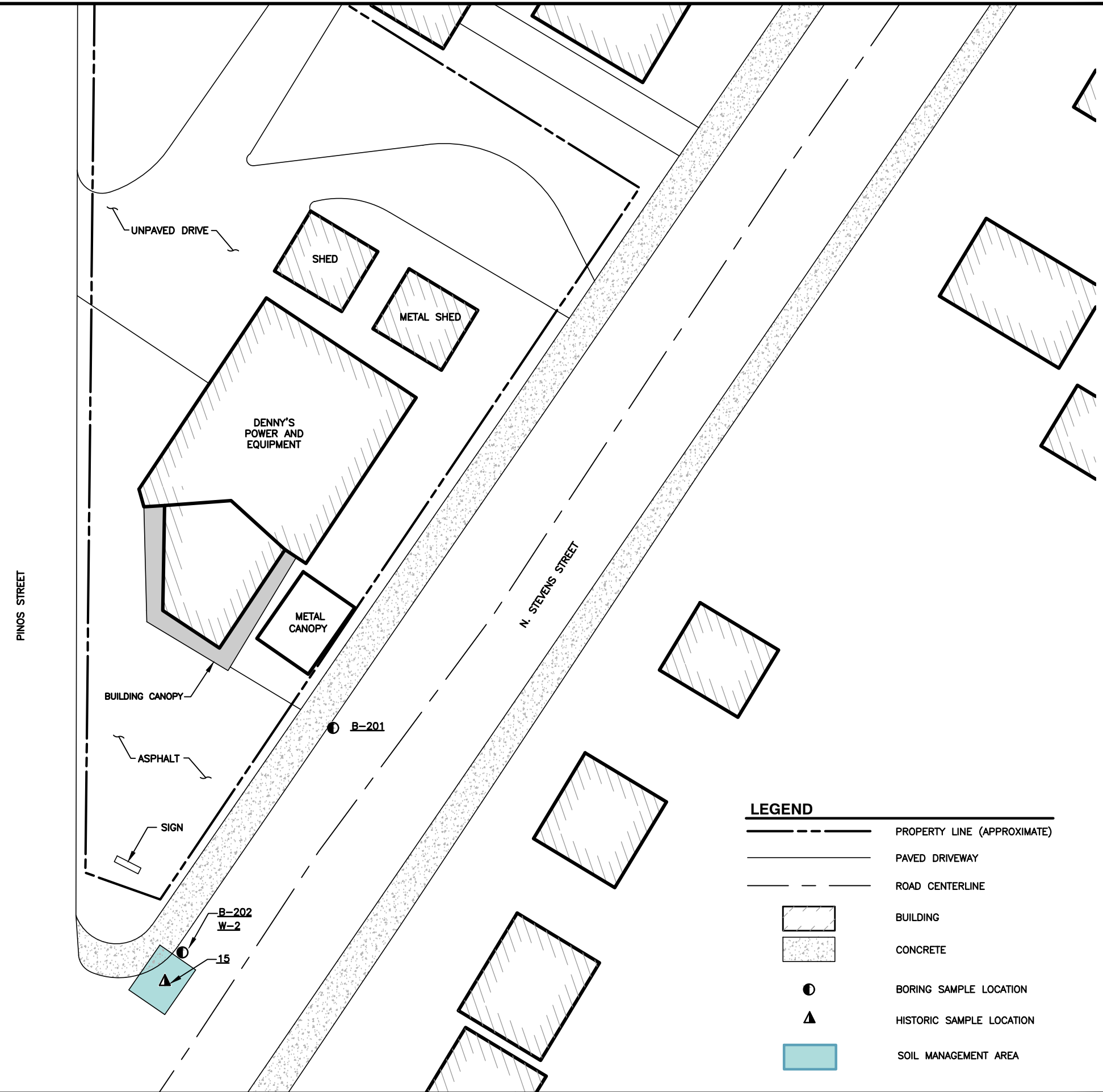
**SITE LAYOUT AND BORING LOCATION MAP**



**909 N. STEVENS ST.  
 RHINELANDER, WI**

DATE: JANUARY 2019  
 SCALE: 1"=30'  
 DRAWN BY: KAP  
 APPROVED: HD

**FIGURE 3**



**NOTE:**  
 SITE LAYOUT DIGITIZED FROM GOOGLE EARTH  
PRO IMAGE DATED JULY 2015. DATE ACCESSED  
 DECEMBER 2018.

## **Tables**

**Table 1 Soil Analytical Results**

**Table 2 Groundwater Analytical Results**

**Table 1**  
**Soil Analytical Results**  
**North Stevens Street**  
**City of Rhinelander**

Sample Location	Sample Depth (ft)	Sample Date	PID	Naphthalene (mg/kg)	
<b>RCL - Direct Contact, Non-Industrial</b>				5.52	
<b>RCL - Direct Contact, Industrial</b>				24.10	
<b>RCL - Groundwater Protection</b>				0.6582	
B-101	825 N Stevens	4	12/06/18	17.7	0.0948
		8		2.5	-
B-102	825 N Stevens	4	12/06/18	561	0.0851
		8		72.6	-
B-103	825 N Stevens	3.5	12/06/18	476	-
		8		145	-
B-201	909 N Stevens	3.5	12/17/18	0	-
		8		3.6	<0.037
B-202	909 N Stevens	3.5	12/17/18	0	-
		8		0.5	-

Notes:

PID photoionization detector  
mg/kg milligram per kilogram  
<0.025 below the level of detection  
- not laboratory analyzed

**Table 2**  
**Groundwater Analytical Results**  
**North Stevens Street**  
**City of Rhinelander**

Sample Location	Sample Depth (ft)	Sample Date	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes (Total)	
			Volatile Organic Compounds (µg/L)								
<b>NR140 Preventative Action Limit</b>			0.5	140	12	10	160	96		400	
<b>NR140 Enforcement Standard</b>			5	700	60	100	800	480		2,000	
W-1	825 N Stevens	8	12/06/18	4.8	130	<2.1	54	6.2	80	52	114
W-2	909 N Stevens	8	12/17/18	<2.4	<1.9	<2.1	<4.3	<2.1	<2.1	<2.1	<5.6

Notes:

- µg/L microgram per liter
- ft feet
- <2.1 Below the level of detection.

## **Soil Boring Logs**

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

Page 1 of 1

Facility/Project Name <u>825 N Stevens St.</u>		License/Permit/Monitoring Number	Boring Number <u>B-101</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: _____ Last Name: _____ Firm: <u>Geiss</u>		Date Drilling Started <u>12, 6, 2018</u> m m, d d, y y y y	Date Drilling Completed <u>12, 6, 2018</u> m m, d d, y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <u>geoprobe direct push</u>
		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
			Borehole Diameter <u>2.25</u> inches

Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>	State Plane _____ N, _____ E S/C/N	Lat <u>45° 39' 21"</u>	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W		Long <u>89° 23' 14"</u>	Feet _____ Feet _____

Facility ID _____	County <u>Oneida</u>	County Code <u>44</u>	Civil Town/City/ or Village <u>Rhinelander</u>
-------------------	-------------------------	--------------------------	---

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	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		
			0-2'	Asphalt Fill											
			2-4'	Coarse-med Sand											
			4-8'	Coarse-med Sand Odor				17.7							
			8'	EOB @ 8' Water Sample W-1				2.5							

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

Signature <u>Nick Berg</u>	Firm <u>Sand Creek Consultants</u>
-------------------------------	---------------------------------------

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/Revelopment  Other

Page 1 of 1

Facility/Project Name <u>825 N Stevens St.</u>		License/Permit/Monitoring Number	Boring Number <u>B-102</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: _____ Last Name: _____ Firm: <u>Greiss</u>		Date Drilling Started <u>12, 10, 2018</u> m m d d y y y y	Date Drilling Completed <u>12, 10, 2018</u> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <u>geoprobe direct push</u>
		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
			Borehole Diameter <u>2.25</u> inches

Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>	State Plane _____ N, _____ E S/C/N	Lat <u>45° 39' 21"</u>	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W		Long <u>89° 23' 14"</u>	Feet _____ Feet _____

Facility ID	County <u>Oneida</u>	County Code <u>44</u>	Civil Town/City/ or Village <u>Rhineland</u>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	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			
			0-1.5'	Asphalt Fill												
			1.5-4'	Coarse-med Sand												
			4-8'	Coarse-med Sand odor				561								
			8'	EOB @ 8'				72.6								

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

Signature <u>M. Bay</u>	Firm <u>Sand Creek Consultants</u>
----------------------------	---------------------------------------

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/Development  Other

Page 1 of 1

Facility/Project Name <u>825 N Stevens St.</u>		License/Permit/Monitoring Number	Boring Number <u>B-103</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: _____ Last Name: _____ Firm: <u>Geiss</u>		Date Drilling Started <u>12, 6, 2018</u> m m d d y y y y	Date Drilling Completed <u>12, 6, 2018</u> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <u>geoprobe direct push</u>
		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Borehole Diameter <u>2.25</u> inches	
State Plane _____ N, _____ E S/C/N		Lat <u>45° 39' 21"</u>	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
_____/4 of _____/4 of Section _____, T _____ N, R _____ E/W		Long <u>89° 23' 14"</u>	

Facility ID	County <u>Oneida</u>	County Code <u>44</u>	Civil Town/City/ or Village <u>Rhineland</u>
-------------	-------------------------	--------------------------	---

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	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		
				ASPHALT 0-2' Fill											
			2	2-4 coarse-med sand				476							
			4	4-5.5' coarse-med sand ▽ 3.5'											
			6	5.5 - 8' silty clay											
			8	8' sand E0B @ 8'				145							

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

Signature <u>Nir B...</u>	Firm <u>Sand Creek Consultants</u>
------------------------------	---------------------------------------

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/Revelopment  Other

Page 1 of 1

Facility/Project Name 909 Stevens St.			License/Permit/Monitoring Number -----		Boring Number B-201
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: Firm: Geiss			Date Drilling Started 12, 17, 2018 m m d d y y y y	Date Drilling Completed 12, 17, 2018 m m d d y y y y	Drilling Method geoprobe direct push
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.25 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S/C/N			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		
1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W			Lat 45° 38' 53" Long 89° 24' 30"		
Facility ID	County Oneida	County Code 44	Civil Town/City/ or Village Rhinelander		

Sample Number and Type	Length Av. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	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				
			0-2'	Fill													
			2-4'	sand													
			4-8'	sand													
			8'	EOB @ 8'				3.6									

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

Signature: *[Signature]* Firm: Sand Creek Consultants

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/Revelopment  Other

Page 1 of 1

Facility/Project Name <u>909 Stevens St.</u>		License/Permit/Monitoring Number _____		Boring Number <u>B-202</u>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: _____ Last Name: _____ Firm: <u>Greiss</u>		Date Drilling Started <u>12, 17, 2018</u> m m d d y y y y	Date Drilling Completed <u>12, 17, 2018</u> m m d d y y y y	Drilling Method <u>geoprobe direct push</u>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <u>2.25</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S/C/N			Lat <u>45° 38' 53"</u>	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W			Long <u>89° 24' 30"</u>	Feet _____ Feet _____	
Facility ID	County <u>Oneida</u>	County Code <u>44</u>	Civil Town/City/ or Village <u>Rhineland</u>		

Sample Number and Type	Length Alt. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	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					
			0-2'	Fill														
			2-4'	sand														
			4-8'	sand	∇ 4'													
			8'	EOB @ 8' water sample w-2				0.5										

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

Signature Nichole Baye Firm Sand Creek Consultants

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/Revelopment  Other

Page 1 of 1

Facility/Project Name 1875 Stevens St.		License/Permit/Monitoring Number		Boring Number B-301	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: Firm: Geiss		Date Drilling Started 12/17/2018	Date Drilling Completed 12/17/2018	Drilling Method geoprobe direct push	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.25 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S/C/N			Lat 45° 39' 21"	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W			Long 89° 23' 14"		

Facility ID	County Oneida	County Code 44	Civil Town/City/ or Village Rhinelander
-------------	------------------	-------------------	--

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	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		
			0	0-1.5' Fill											
			2	1.5-9' Sand											
			4	4-8' Sand w/ cobbles				0							
			8	8-12' Sand				0							
			10												
			12	FOR @ 12' Water Sample W-3				0							

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

Signature M. Be	Firm Sand Creek Consultants
--------------------	--------------------------------

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/Revelopment  Other

Page 1 of 1

Facility/Project Name 1875 Stevens St.			License/Permit/Monitoring Number -----		Boring Number B-302
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: Firm: <u>Griess</u>			Date Drilling Started 12, 17, 2018 m m d d y y y y	Date Drilling Completed 12, 17, 2018 m m d d y y y y	Drilling Method geoprobe direct push
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.25 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S/C/N			Lat 45° 39' 21"	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W			Long 89° 23' 14"	Feet _____ Feet _____	
Facility ID	County Oneida	County Code 44	Civil Town/City/ or Village Rhinelander		

Sample Number and Type	Length Air. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			2	0-3' Fill											
			4	3-4' sand				0							
			8	4-8' sand				0							
			12	8-12 sand				0							
				E03@12'				0							

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

Signature Nin B... Firm Sand Creek Consultants

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/Revelopment  Other

Page 1 of 1

Facility/Project Name <u>1875 Stevens St.</u>			License/Permit/Monitoring Number		Boring Number <u>B-303</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: _____ Last Name: _____ Firm: <u>Geiss</u>			Date Drilling Started <u>12/17/2018</u> m m d d y y y y	Date Drilling Completed <u>12/17/2018</u> m m d d y y y y	Drilling Method <u>geoprobe Direct Push</u>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <u>2.25</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S/C/N			Lat <u>45° 39' 21"</u> Long <u>89° 23' 14"</u>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
1/4 of _____ 1/4 of Section _____, T _____ N, R _____ E/W			Facility ID _____		
County <u>Oneida</u>		County Code <u>44</u>	Civil Town/City or Village <u>Rhineland</u>		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	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		
			0-2'	Fill											
			2-4'	clay sand to sand											
			4-5'	sand				0 0		wet ↓					
				Refusal @ 5'											

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

Signature [Signature] Firm Sand Creek Consultants

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.

## **Laboratory Reports**

**NORTHERN LAKE SERVICE, INC.**  
 Analytical Laboratory and Environmental Services  
 400 North Lake Avenue - Crandon, WI 54520  
 Ph: (715)-478-2777 Fax: (715)-478-3060

# ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460  
 WDATCP Laboratory Certification No. 105-330  
 EPA Laboratory ID No. WI00034

Printed: 12/14/18 Page 1 of 1

**Client:** Sand Creek Consultants Inc  
 Attn: Hollie DePuydt  
 580 Shepard Street, Suite A  
 Rhinelander, WI 54501

**NLS Project:** 313016

**NLS Customer:** 30774

**Fax:** 866 608 6473 **Phone:** 715 365 1818

**Project:** Rhinelander

B-101 4' NLS ID: 1095984

COC: 223556:1 Matrix: SO

Collected: 12/06/18 09:10 Received: 12/06/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	84.8	%	1	0.10*		12/07/18	SM 2540-G 20ed	721026460
PVOC (soil) by EPA Method 8260C	see attached					12/11/18	SW846 8260C	721026460

B-102 4' NLS ID: 1095985

COC: 223556:2 Matrix: SO

Collected: 12/06/18 09:30 Received: 12/06/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	86.8	%	1	0.10*		12/07/18	SM 2540-G 20ed	721026460
PVOC (soil) by EPA Method 8260C	see attached					12/11/18	SW846 8260C	721026460

W-1 NLS ID: 1095986

COC: 223556:3 Matrix: GW

Collected: 12/06/18 09:15 Received: 12/06/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
PVOC (water) by EPA Method 8260C	see attached					12/11/18	SW846 8260C	721026460

MeOH Trip Blank NLS ID: 1095987

Matrix: TB

Collected: 12/06/18 00:00 Received: 12/06/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
PVOC (soil) by EPA Method 8260C	see attached					12/11/18	NA	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(\*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD)    LOD = Limit of Detection    LOQ = Limit of Quantitation    NA = Not Applicable

DWB = Dry Weight Basis    %DWB = (mg/kg DWB) / 10000    1000 ug/L = 1 mg/L

MCL = Maximum Contaminant Levels for Drinking Water Samples.    Shaded results indicate >MCL.

Reviewed by:



Authorized by:  
 R. T. Krueger  
 President

## ANALYTICAL RESULTS: VOC's by P&amp;T/GCMS - Soil - (VarSat2000)

Page 1 of 2

Customer: Sand Creek Consultants Inc NLS Project: 313016

Project Description: Rhinelander

Project Title: Template: SATSPVOC Printed: 12/14/2018 17:36

Sample: 1095984 B-101 4' Collected: 12/06/18 Analyzed: 12/11/18 - 84.8%Solids Analytes: 9

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
MTBE	ND	ug/kg	1	20	70	
Benzene	ND	ug/kg	1	22	79	
Toluene	ND	ug/kg	1	19	66	
Ethylbenzene	ND	ug/kg	1	27	96	
meta,para-Xylene	ND	ug/kg	1	39	140	
ortho-Xylene	ND	ug/kg	1	19	66	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
Naphthalene	[94.8]	ug/kg	1	37	130	J
Dibromofluoromethane (SURR)	85%		1			S
Toluene-d8 (SURR)	107%		1			S
1-Bromo-4-Fluorobenzene (SURR)	96%		1			S

## NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1095985 B-102 4' Collected: 12/06/18 Analyzed: 12/11/18 - 86.8%Solids Analytes: 9

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
MTBE	ND	ug/kg	1	20	70	
Benzene	ND	ug/kg	1	22	79	
Toluene	ND	ug/kg	1	19	66	
Ethylbenzene	ND	ug/kg	1	27	96	
meta,para-Xylene	ND	ug/kg	1	39	140	
ortho-Xylene	ND	ug/kg	1	19	66	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
Naphthalene	[85.1]	ug/kg	1	37	130	J
Dibromofluoromethane (SURR)	96%		1			S
Toluene-d8 (SURR)	117%		1			S
1-Bromo-4-Fluorobenzene (SURR)	98%		1			S

## NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.



**ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)**

Customer: Sand Creek Consultants Inc NLS Project: 313016

Project Description: Rhinelander

Project Title: Template: SATSPVOC Printed: 12/14/2018 17:36

Sample: 1095987 MeOH Trip Blank Collected: 12/06/18 Analyzed: 12/11/18 - Analytes: 9

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	Note
MTBE	ND	ug/kg	1	20	70	
Benzene	ND	ug/kg	1	22	79	
Toluene	ND	ug/kg	1	19	66	
Ethylbenzene	ND	ug/kg	1	27	96	
meta,para-Xylene	ND	ug/kg	1	39	140	
ortho-Xylene	ND	ug/kg	1	19	66	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
Naphthalene	ND	ug/kg	1	37	130	
Dibromofluoromethane (SURR)	87%		1			S
Toluene-d8 (SURR)	111%		1			S
1-Bromo-4-Fluorobenzene (SURR)	95%		1			S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.



# SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

# NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298  
Tel: (715) 478-2777 • Fax: (715) 478-3060

CLIENT <b>Sand Creek Consultants</b>	
ADDRESS <b>580 Shepard St</b>	
CITY <b>Rhineland WI</b>	STATE <b>WI</b> ZIP <b>54501</b>
PROJECT DESCRIPTION / NO. <b>Rhineland</b>	QUOTATION NO.
DNR FID #	DNR LICENSE #
CONTACT <b>Hollie DePuydt</b>	PHONE
PURCHASE ORDER NO.	FAX

Wisconsin DNR cert ID  
721026460 (Cran) / 268533760 (Wauk)  
Wisconsin DATCP ID  
105-000330 (Cran) / 105-000479 (Wauk)

MATRIX:  
SW = surface water  
WW = waste water  
GW = groundwater  
DW = drinking water  
TIS = tissue  
AIR = air  
SOIL = soil  
SED = sediment  
PROD = product  
SL = sludge  
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.  
Indicate G or C if WW Sample is Grab or Composite.



NO. **223556**

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	PARAMETER										COLLECTION REMARKS (i.e. DNR Well ID #)		
			DATE	TIME			1	2	3	4	5	6	7	8	9	10			
1.	1095984	B-101 4'	12/6/18	910	S	+													
2.	985	B-102 4'	↓	930	S	+													
3.	986	W-1	↓	915	GW	+													
4.	987																		
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			

COLLECTED BY (signature) <b>Hollie DePuydt</b>	CUSTODY SEAL NO. (IF ANY)	DATE/TIME <b>12/6/18</b>		
RELINQUISHED BY (signature) <b>[Signature]</b>	RECEIVED BY (signature)	DATE/TIME		
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME		
RECEIVED AT NLS BY (signature) <b>[Signature]</b>	DATE/TIME <b>12/6/18 1200</b>	CONDITION <b>Good</b>	TEMP.	
COOLER #	REMARKS & OTHER INFORMATION			
PRESERVATIVE: NP = no preservative S = sulfuric acid	N = nitric acid Z = zinc acetate M = methanol	OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid	WDNR FACILITY NUMBER	E-MAIL ADDRESS

REPORT TO
INVOICE TO

**IMPORTANT:**  
Rev. 7/20/15

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

**NORTHERN LAKE SERVICE, INC.**  
 Analytical Laboratory and Environmental Services  
 400 North Lake Avenue - Crandon, WI 54520  
 Ph: (715)-478-2777 Fax: (715)-478-3060

# ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460  
 WDATCP Laboratory Certification No. 105-330  
 EPA Laboratory ID No. WI00034

Printed: 01/07/19 Page 1 of 1

**Client:** Sand Creek Consultants Inc  
 Attn: Hollie DePuydt  
 580 Shepard Street, Suite A  
 Rhinelander, WI 54501

**NLS Project:** 313547

**NLS Customer:** 30774

**Fax:** 866 608 6473 **Phone:** 715 365 1818

**Project:** Rhinelander - PVOC & Naph

**B-201 8' NLS ID: 1097786**

COC: 223555:1 Matrix: SL  
 Collected: 12/17/18 08:05 Received: 12/18/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Solids, total on solids	86.9	%	1	0.10*		12/20/18	SM 2540-G 20ed	721026460
PVOC (soil) by EPA Method 8260C	see attached					01/07/19	SW846 8260C	721026460

**W-2 NLS ID: 1097787**

COC: 223555:2 Matrix: GW  
 Collected: 12/17/18 08:20 Received: 12/18/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
PVOC (water) by EPA Method 8260C	see attached					12/26/18	SW846 8260C	721026460

**W-3 NLS ID: 1097788**

COC: 223555:3 Matrix: GW  
 Collected: 12/17/18 09:00 Received: 12/18/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
PVOC (water) by EPA Method 8260C	see attached					12/26/18	SW846 8260C	721026460

**Trip Blank NLS ID: 1097789**

COC: 223555:0 Matrix: TB  
 Collected: 12/17/18 00:00 Received: 12/18/18

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
PVOC (water) by EPA Method 8260C	see attached					12/28/18	NA	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(\*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD)    LOD = Limit of Detection    LOQ = Limit of Quantitation    NA = Not Applicable  
 DWB = Dry Weight Basis    %DWB = (mg/kg DWB) / 10000    1000 ug/L = 1 mg/L  
 MCL = Maximum Contaminant Levels for Drinking Water Samples.    Shaded results indicate >MCL.

Reviewed by:



Authorized by:  
 R. T. Krueger  
 President

**ANALYTICAL RESULTS: VOC's by P&T/GCMS - Soil - (VarSat2000)**

Customer: Sand Creek Consultants Inc NLS Project: 313547

Project Description: Rhinelander - PVOG &amp; Naph

Project Title: Template: SATSPVOG Printed: 01/07/2019 15:24

Sample: 1097786 B-201 8' Collected: 12/17/18 Analyzed: 01/07/19 - 86.9%Solids Analytes: 9

ANALYTE NAME	RESULT	UNITS DWB	DIL	LOD	LOQ	Note
MTBE	ND	ug/kg	1	20	70	
Benzene	ND	ug/kg	1	22	79	
Toluene	ND	ug/kg	1	19	66	
Ethylbenzene	ND	ug/kg	1	27	96	
meta,para-Xylene	ND	ug/kg	1	39	140	
ortho-Xylene	ND	ug/kg	1	19	66	
1,3,5-Trimethylbenzene	ND	ug/kg	1	22	76	
1,2,4-Trimethylbenzene	ND	ug/kg	1	23	83	
Naphthalene	ND	ug/kg	1	37	130	
Dibromofluoromethane (SURR)	99%		1			S
Toluene-d8 (SURR)	111%		1			S
1-Bromo-4-Fluorobenzene (SURR)	88%		1			S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

**ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat2000)**

Customer: Sand Creek Consultants Inc NLS Project: 313547

Project Description: Rhinelander - PVOC &amp; Naph

Project Title: Template: SATPVOC Printed: 01/07/2019 15:24

Sample: 1097787 W-2 Collected: 12/17/18 Analyzed: 12/26/18 - Analytes: 9

Notes: FO

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
MTBE	ND	ug/L	10	2.1	7.3	
Benzene	ND	ug/L	10	2.4	8.4	
Toluene	ND	ug/L	10	2.1	7.4	
Ethylbenzene	ND	ug/L	10	1.9	6.9	
meta,para-Xylene	ND	ug/L	10	3.7	13	
ortho-Xylene	ND	ug/L	10	1.9	6.6	
1,3,5-Trimethylbenzene	ND	ug/L	10	2.1	7.6	
1,2,4-Trimethylbenzene	ND	ug/L	10	2.1	7.4	
Naphthalene	ND	ug/L	10	4.3	15	
Dibromofluoromethane (SURR)	100%		10			S
Toluene-d8 (SURR)	112%		10			S
1-Bromo-4-Fluorobenzene (SURR)	102%		10			S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

FO = Sample was diluted due to a foaming matrix.

Sample: 1097788 W-3 Collected: 12/17/18 Analyzed: 12/26/18 - Analytes: 9

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
MTBE	ND	ug/L	1	0.21	0.73	
Benzene	ND	ug/L	1	0.24	0.84	
Toluene	ND	ug/L	1	0.21	0.74	
Ethylbenzene	ND	ug/L	1	0.19	0.69	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
ortho-Xylene	ND	ug/L	1	0.19	0.66	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.21	0.76	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.21	0.74	
Naphthalene	ND	ug/L	1	0.43	1.5	
Dibromofluoromethane (SURR)	104%		1			S
Toluene-d8 (SURR)	112%		1			S
1-Bromo-4-Fluorobenzene (SURR)	96%		1			S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

**ANALYTICAL RESULTS: VOC's by P&T/GCMS - Water - (VarSat3)**

Customer: Sand Creek Consultants Inc NLS Project: 313547

Project Description: Rhinelander - PVOG &amp; Naph

Project Title: Template: SAT3PVOG Printed: 01/07/2019 15:24

Sample: 1097789 Trip Blank Collected: 12/17/18 Analyzed: 12/28/18 - Analytes: 9

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.19	0.69	
Ethylbenzene	ND	ug/L	1	0.30	1.1	
Naphthalene	ND	ug/L	1	0.29	1.0	
ortho-Xylene	ND	ug/L	1	0.16	0.56	
Toluene	ND	ug/L	1	0.19	0.68	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.18	0.65	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.20	0.71	
meta,para-Xylene	ND	ug/L	1	0.32	1.1	
MTBE	ND	ug/L	1	0.22	0.76	
Dibromofluoromethane (SURR)	114%		1			S
Toluene-d8 (SURR)	120%		1			S
1-Bromo-4-Fluorobenzene (SURR)	113%		1			S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.



# SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

# NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060



NO. 223555

CLIENT <i>Sand Creek Consultants</i>	
ADDRESS <i>580 Shepard St</i>	
CITY <i>Rhinelanders</i> STATE <i>WI</i> ZIP <i>54521</i>	
PROJECT DESCRIPTION / NO. <i>Rhinelanders</i>	QUOTATION NO.
DNR FID #	DNR LICENSE #
CONTACT <i>Hollie DeRuydt</i>	PHONE
PURCHASE ORDER NO.	FAX

Wisconsin DNR cert ID  
721026460 (Cran) / 268533760 (Wauk)  
Wisconsin DATCP ID  
105-000330 (Cran) / 105-000479 (Wauk)

MATRIX:  
SW = surface water  
WW = waste water  
GW = groundwater  
DW = drinking water  
TIS = tissue  
AIR = air  
SOIL = soil  
SED = sediment  
PROD = product  
SL = sludge  
OTHER

ANALYZE PER ORDER OF ANALYSIS	USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered. Indicate G or C if WW Sample is Grab or Composite.												COLLECTION REMARKS (i.e. DNR Well ID #)
<i>PVIC + Naph</i>													

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS												COLLECTION REMARKS (i.e. DNR Well ID #)										
			DATE	TIME																								
1.	<i>1097786</i>	<i>B-201 8'</i>	<i>12/17</i>	<i>805</i>	<i>S</i>																							
2.	<i>7787</i>	<i>W-2</i>	<i>↓</i>	<i>820</i>	<i>GW</i>																							
3.	<i>7788</i>	<i>W-3</i>	<i>↓</i>	<i>900</i>	<i>GW</i>																							
4.	<i>7789</i>																											
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												

COLLECTED BY (signature) <i>Hollie DeRuydt</i>	CUSTODY SEAL NO. (IF ANY)		DATE/TIME <i>12/17/18 1000</i>
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME	
DISPATCHED BY (signature) <i>Neil Press</i>	METHOD OF TRANSPORT <i>NLS pickup</i>	DATE/TIME <i>12/18/18</i>	
RECEIVED AT NLS BY (signature) <i>Karla Blum</i>	DATE/TIME <i>12-18-18 830</i>	CONDITION <i>on ice</i>	TEMP.
COOLER #	REMARKS & OTHER INFORMATION		
PRESERVATIVE: NP = no preservative S = sulfuric acid	N = nitric acid Z = zinc acetate M = methanol	OH = sodium hydroxide HA = hydrochloric & ascorbic acid H = hydrochloric acid	WDNR FACILITY NUMBER
			E-MAIL ADDRESS

REPORT TO
INVOICE TO

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP YELLOW COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

**IMPORTANT:**

Rev. 7/20/15

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