

580 Shepard Street • Suite A • Rhinelander, WI 54501 • 715.365.1818

April 4, 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 (Revised)

Dear Ms. Stoltz:

The purpose of this revised letter is to request soil management exemption for all 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 for the following sites:

- 03-44-001220 Speedway Station
- 03-44-000831 Gallo Property

Two sites with petroleum impacted soil were identified. The remaining BBRTS sites along North Stevens Street have been reviewed and evaluated to be no or low risk for soil impacts.

The former Speedway Station (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 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 for 825 and 909 N Stevens Street are shown on **Figures 2** and **3**, respectively. 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 (VOC) 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 (μ g/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 boundaries of the managed soil will be delineated during excavation operations. Field PID analysis of soil will guide the management area. The excavated material will be stockpiled at 825 North Stevens Street or within the City right of way on an impervious surface. 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 (Wisconsin Department of Natural Resources [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 bgs. Soil samples were collected at 4 and 8 feet bgs and field screened using a PID for the indication of VOC. The PID results are displayed on the enclosed **soil boring logs** and only went as high as 3.6.

One soil sample, B-201 at 8 feet, 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 on an impervious surface. The boundaries of the managed soil will be delineated during excavation operations. Field PID analysis of soil will guide the management area. 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.

Soil Management Plan

The soil plan is to reduce further environmental impacts along North Stevens Street project. The plan will be as follows:

- Visual and olfactory observations of soil along the entire project area.
- If contaminated soil is encountered, the soil will be stock piled on an impervious surface, and covered with plastic or similar if precipitation is in the forecast, and replaced in the same locations

- The contaminated soil area(s) will be delineated in the field using a PID.
- If contaminated soil is unable to be replaced, the soil will be hauled to the Lincoln County Landfill.

The soil management plan continues to abide by NR 726.13 conditions as the source sites were closed under and will follow management requirements in NR 718.12.

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 the 825 and 909 N Stevens Street soil areas and will also be on-call, if needed, to evaluate impacted soil encountered during other excavations.

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 <u>hollie.depuydt@sand-creek.com</u>.

Sincerely, SAND CREEK CONSULTANTS, INC.

Collee De Fuydt

Hollie DePuydt, PE Environmental Engineer

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

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

Soil or Waste Managed on the Generating Property						
Action	Action Fee	WRRD Fee	On-Site MGMT Fee			
Interim Actions per NR 708.11, with SMP and CO applied at other site/facility	\$700	No fee	□ \$700			
Remedial Action Plan approval, with SMP, without residual soil CO	\$1050	No fee	□ \$1050			
Remedial Action Plan approval, with SMP, with residual soil CO	\$1050	\$300	□ \$1350			
SMP submitted separately from a RAP or CO modification, without residual soil CO	\$700	No fee	□ \$700			
SMP submitted separately from a RAP or CO modification, with residual soil CO	\$700	\$300	□ \$1000			
Closed Sites: CO modification action, with SMP, without residual soil CO	\$1050	No fee	□ \$1050			
Closed Sites: CP modification action, with SMP, with residual soil CO	\$1050	\$300	□ \$1350			
Soil Managed on a Site or Facility of	ther than the Gene	rating Property				
Action	Action Fee	WRRD Fee	Off-Site MGMT Fee			
Interim Actions per NR 708.11, with SMP and CO applied at other site/facility	\$700	\$350	□ \$1050			
Interim Actions per NR 708.11, with SMP and no CO applied at other site/facility	\$700	No fee	□ \$700			
All other Actions (Remedial actions, modifications to CO, etc.) with residual soil CO	\$700	\$300	⊠ \$1000			
All other Actions (Remedial actions, post closure nodifications, etc.) with no residual soil CO	\$700	No fee	5700			

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.

oxes
BRRTS Activity (Site) Name
Speedway Station
Gallo Property
VPLE No.
Parcel ID No.
North Stevens Street Right of Way
FID No.
Zip Code
54501
WTM Coordinates Represent
Source Area Parcel Center X
T: 37 N R: 9 E/W: E
Longitude:
Current Land Use:
City of Rhinelander - 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. Responsible Party Information					
Responsible Party (RP) Name(s)	Company Name				
Not Applicable					
Signature(s)		Date			
Mailing Address	City	State	ZIP Code		
Phone # (include area code)	Email				

C. Owner Information for Site or Facility From Which Material is Proposed to be Excavated from, if Different than Responsible Party

Responsible Party (RP) Name(s)	Company Name		
Not Applicable			
Signature(s)		Date	
Mailing Address	City	State	ZIP Code
Phone No. (include area code)	Email		

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

D. Requestor Info	rmation				
Last Name	First	Organization/Business Name			
Kingman	Tim	City of Rhinelander			
Signature(s)	Aller		Date 4/1/2	2019	
Mailing Address	0	City	State	ZIP Code	
135 S Stevens Street		Rhinelander	WI	54501	
Phone No. (include area c	ode)	Email			
715.362.4731		tkingman@rhinelanderutilitie	es.org		
Check the box that describes the requestor's relationship to the generating property:					
 Is the property owner's agent or consultant □ Is renting or leasing the property □ Is developing the property ☑ Other, describe relationship: Representative of City owned right of way 					

Last Name	First	Organization/Business Name
DePuydt	Hollie	Sand Creek Consultants, Inc.
Mailing Address		Email
580 Shepard St	reet Suite A	hollie.depuydt@sand-creek.com
City		Phone No. (include area code)
Rhinelander		715.365.1818
State	Zip Code	Relationship to Requestor (Same, Consultant, Developer, Etc.):
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

I Select	t if Sam	ie as Gene	rating Property (a	nd skip remainder	of section)	
BRRTS No.	BRRTS No.			BRRTS Activity (Sit	e) Name	
Receiving Site or F	acility A	ddress		VPLE No.		
City				Parcel ID No.		
State				FID No.		
County				Zip Code		
١	МТМ С	oordinate	S	_	Coordinates Rep	
х:		Y:		Source Area	Parce Parce	el Center
1/4		1/4	Sec:	T:	R:	E/W:
Latitude:				Longitude:		
Current Zoning:				Current Land Use:		

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.

Property Owner Name(s)	Company Name		
City of Rhinelander			
Mailing Address	City	State	ZIP Code
135 S Stevens Street	Rhinelander	WI	54501
Phone No. (include area code)	Email	·	·
715.362.4731	tkingman@rhinelan	derutilities.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 depths up 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 screening using photoionization detector (PID), and potential further laboratory analysis, the areas of impacted soil will be delineated.

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 (μ g/kg); both results are below the limits of quantitation.

In August 1996, during remedial excavation activities, benzene was detected at 89 μ g/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 (PID) of soil across the excavation area was conducted. Soil samples were submitted for laboratory analysis based on field screening results. Further delineation of soil management areas will be completed during excavation activities using a PID and/or laboratory analysis.

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.

The management activities to require NR 718.12 exemption is for the management of impacted soil within North Stevens Street right of way by the adjacent properties.

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 on an impervious surface 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.

Speedway Station	825 North Stevens Street	BRRTS No. 03-44-001220
Gallo Property	909 North Stevens Street	BRRTS No. 03-44-000831

Both the Speedway Station and Gallo Property have been closed pursuant to NR 726.13. The proposed soil management plan will continue to abide by the NR 726.13 conditions.

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 on April 15, 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 using a PID will be implemented at the time of the excavation to delineate and guide the soil management areas. 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 additional volatilization through aeration 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 X___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.

Agricultural	Ν	S	Е	W	NE	NW	SE	SW
Industrial	N	S	Е	W	NE	NW	SE	SW
Recreational	N	S	Е	W	NE	NW	SE	SW
Residential	N	S	Е	W	NE	NW	SE	SW
Undeveloped	Ν	S	E	W	NE	NW	SE	SW
Commercial	(N)	(S)	(E)	W	NE	NW	SE	SW
Other	N	S	(Ē)	(W)	NE	NW	SE	SW

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. Once the soil is replaced in its original location the area will be capped preventing stormwater from infiltrating.

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. b	elow ground surf	🗷 Regional	□ Site Specific	
Bedrock Type:	□ Sandstone	Limestone/Dolomite	Metamorphic/I	gneous
High Groundwater Lev	el (ft. below grou	CRegion	nal 🗵 Site Specific	
Groundwater Flow Dir	rection: <u>south</u>		□ 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? \Box Yes \Box 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:

- ☑ <u>No Continuing Obligations</u>
- **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.

□ <u>Maintenance of a cover:</u>

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.

□ <u>Use of Industrial Land Use Soil Standards</u>:

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.

□ <u>Site specific condition:</u> 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 <u>DNR Form 4400-202</u>, <u>Attachment D</u>.
- □ 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.
- Dever 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						
Firm Name						
Sand Creek Consultants, Inc.						
Mailing Address	State					
580 Shepard St Suite A	WI					
City	ZIP Code					
Rhinelander	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 prepare by or under the supervision of a professional engineer under Wis. Admin. Code § NR 712.07.

Professional Engineer Information									
Last Name	First Name								
DePuydt	Hollie								
Mailing Address	City	ZIP Code							
580 Shepard Street Suite A	Rhinelander WI 54501								
Phone No. (include area code)	Email								
715.365.1818	hollie.depuydt@sand-o	reek.com							

"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.

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, safely or welfare."

Signature	Date	Wisconsin Registration Number
HalleeDeFuydt	4-3-2019	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.

Owner(s) of Property Where Material is Placed								
Print Name	Signature	Date						
Print Name	Signature	Date						
Print Name	Signature	Date						
Print Name	Signature	Date						
law and specified in the e contaminated soil. Furthe will be at a property that Admin. Code Chapters §§ future as a solid waste wi Wisconsin Remediation a by me of any continuing contaminated material, ar on my site or facility may	ing this application I certify that I will follow the cond exemption issued to me as owner of the site or facility er, I certify that the contaminated soil proposed to be n meets the definition of "site" or "facility" under Wis. § NR 700 – 754, and I understand that the material mu ith the department's approval. I understand that this ex and Redevelopment Database, and if required, will inc obligations, such as maintaining an engineering contro- nd will also be subject to inspection by the department y be subject to Wis. Stats. Chapter 709, Disclosures by for all properties where material will be managed is in	that will receive the managed under this exemption Stats. Chapter 292 and Wis. ust be managed any time in the xemption will be tracked in the clude maintenance and inspection ol or barrier over the t. I understand that the conditions y Owners of Real Estate. I believe						

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, (608) 266-0941
- Northeast Region: Kristin DuFresne, Kristin.Dufresne@wisconsin.gov, (920) 662-5443
- Northern Region: Chris Saari, Chris.Saari@wisconsin.gov, (715) 685-2920
- South Central Region: Mike Schmoller, Michael.Schmoller@wisconsin.gov, (608) 275-3303
- Southeast Region:

Nancy Ryan, Nancy.Ryan@wisconsin.gov, (414) 263-8533

Linda Michalets, Linda.Michalets@wisconsin.gov, (414) 263-8757

• West Central Region: Matt Thompson, Matthew.Thompson@wisconsin.gov, (715) 839-3750

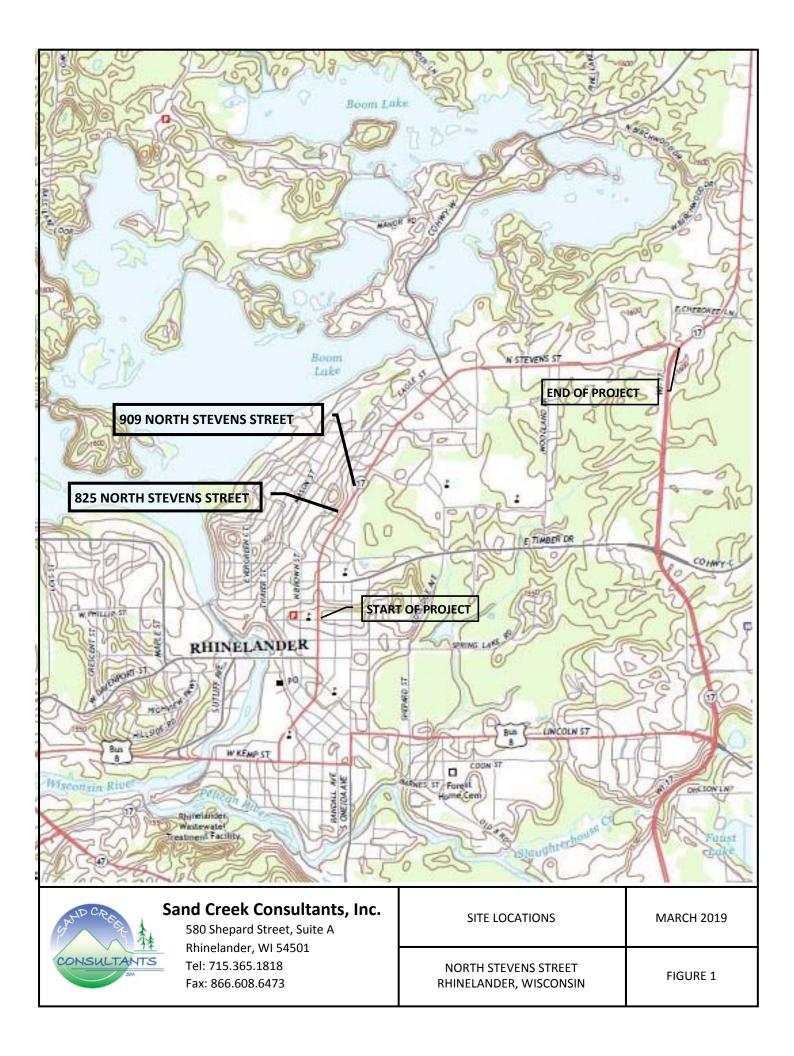
This document is intended solely as guidance and does not include any mandatory requirements except where requirements found in statute or administrative rule are referenced. This guidance does not establish or affect legal rights or obligations and is not finally determinative of any of the issues addressed. 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.

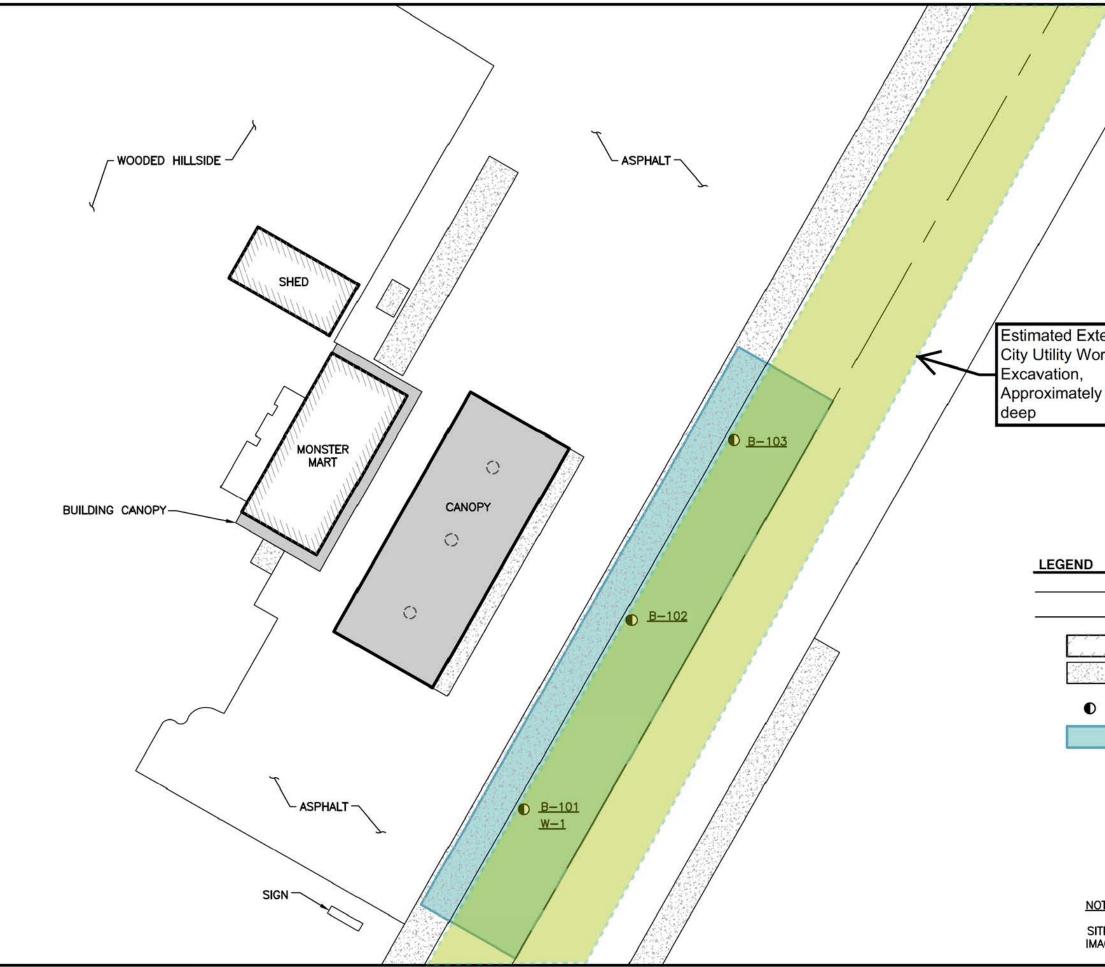
The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Chief, Public Civil Rights, Office of Civil Rights, U.S. Department of the Interior, 1849 C. Street,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





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F	FIGURE 3

Tables

Table 1 Soil Analytical Results

 Table 2
 Groundwater Analytical Results

Table 1 Soil Analytical Results North Stevens Street City of Rhinelander

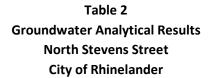
SampleLocatio	on	Sample Depth (ft)	Sample Date	PID	Naphthalene (mg/kg)						
RCL - Direct Contact, Non-Industrial 5.52											
RCL - Direct Co	ontact, Industrial				24.10						
RCL - Groundy	water Protection				0.6582						
B-101	825 N Stevens	4	12/06/18	17.7	0.0948						
		8		2.5	-						
B-102	825 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



		Sample Depth	Sample	Benzene	Ethylonienzen.	^{WIBE}	Naphthalene		32,4 limethyle		heres (local)
Sample Lo	cation	(ft)	Date				Volatile (Organic Co	mpounds (μg	:/L)	
NR140 Preventative Action Limit			0.5	140	12	10	160	96		400	
NR140 Enf	orcement Standar	d		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
	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/
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/Wastewater 🔲 Waste Management 🔲 Remediation/Revelopment 🔲 Other

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

Firm Sand

Signature

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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.

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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Signature Dir by-

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

Signature	Firm
Michael Bane	SAND CREEK CONSULTANTS

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Signature

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Consultants

Route To

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	Remediation/Revelopme	mt		Other		

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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.

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Route To

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	Remediation/Revelopment		Other		10.00

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Dia Ol	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

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

NLS Project: 313016

NLS Customer: 30774

Fax: 866 608 6473 Phone: 715 365 1818

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

Rhinelander Project:

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 th	ne LOQ and are v	within a region of "L	ess-Certain	Quantitation	". Results greate	r than or equal to the LO	OQ are considered
to be in the region of "Certain Quantitation". LOD and/or LO								

%DWB = (mg/kg DWB) / 10000

DWB = Dry Weight Basis MCL = Maximum Contaminant Levels for Drinking Water Samples.

1000 ug/L = 1 mg/L

Shaded results indicate >MCL.

Reviewed by:

<u> Stemas Rhult</u>

Authorized by: R. T. Krueger President

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 Analyte	es: 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.

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:

Sample: 1095986 W-1 Collected: 12/06/18 Analyzed: 12/11/18 - Analytes: 9

Bample: 1000000 W 1 Concetted: 12/00/10 Thatyzed: 12/11	10 Innal (Cost o					
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
MTBE	ND	ug/L	10	2.1	7.3	
Benzene	[4.8]	ug/L	10	2.4	8.4	J
Toluene	[6.2]	ug/L	10	2.1	7.4	J
Ethylbenzene	130	ug/L	10	1.9	6.9	
meta,para-Xylene	100	ug/L	10	3.7	13	
ortho-Xylene	14	ug/L	10	1.9	6.6	
1,3,5-Trimethylbenzene	52	ug/L	10	2.1	7.6	
1,2,4-Trimethylbenzene	80	ug/L	10	2.1	7.4	
Naphthalene	54	ug/L	10	4.3	15	
Dibromofluoromethane (SURR)	107%		10			S
Toluene-d8 (SURR)	110%		10			S
1-Bromo-4-Fluorobenzene (SURR)	96%		10			S

NOTES APPLICABLE TO THIS ANALYSIS:

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

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD NORTHERN LAKE SERVICE, INC.

CLIENTSCIMCL ADDRESS 58D CITY PAINE PROJECT DESCRIPTIO PROJECT DESCRIPTIO DNR FID # CONTACT FUNCHASE ORDER NO	CVEEK CONSULTO Shupand St and STATE VI N/NO. NOCY DNR LICENSE # 2440 FAX	54501 TATION NO.	WW = GW = DW = TIS = AIR = SOIL = SED =	ran) / 268 ATCP ID Cran) / 109 IX: surface water groundwater drinking water drinking water drinking water issue air = soil sediment = product ludge	533760 5-00047	C+ V a WALLSIS	k)	400 Tel: (North (715) 4	Lake / 178-27 V: Indica	Avenu 77 •	ue • C Fax: (or N if G	rando 715) 4 W Sam	178-30	54520-1 60 eld filtered.	298	NO. 22	23556
ITEM NLS NO. LAB. NO.	SAMPLE ID	DATE	TIME	MATRIX (See above)							/		/ /		C	OLLECT (i.e. DN	ION REMAF	IKS
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RELINQUISHED BY G	gnature)	RECEIVED	BY (signature)					Ŀ	DAT	E/TIME								
DISPATCHED BY (sign	ature)	METHOD	OF TRANSPORT						DAT	E/TIME								
5	NA.	1	1	1000)	<u>An</u>	••					INN	VOICE	TO				
RECEIVED AT NLS BY	(signature) Haun	DATECTIME	118 1	200	COND	ITION	IAI	1	TE	MP.			OIGE					
	portuin	REMARKS 8	THER INFORM	ATION		v-pc	and											
	= nitric acid OH = sodium hydroxide		LITY NUMBER	E-MAIL	ADDRE	SS					-							
S = sulfuric acid M	= zinc acetateHA = hydrochloric & ascorbicI = methanolH = hydrochloric acid						_								_			
IMPORTANT: 2. 3.	TO MEET REGULATORY REQUIREMEN PLEASE USE ONE LINE PER SAMPLE, RETURN THIS FORM WITH SAMPLES PARTIES COLLECTING SAMPLE, LIST	NOT PER BOTTLE	P YELLOW COPY.										es deso	CRIBED.				

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

Sand Creek Consultants Inc

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

> **NLS Project:** 313547

NLS Customer: 30774

Fax: 866 608 6473 Phone: 715 365 1818

Project: Rhinelander - PVOC & Naph

B-201 8' NI S ID: 1097786

Attn: Hollie DePuydt 580 Shepard Street, Suite A

Rhinelander, WI 54501

Client:

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
VOC (water) by EPA Method 8260C	see attached					12/26/18	SW846 8260C	721026460
Trip Blank NLS ID: 1097789								
OC: 223555:0 Matrix: TB								
Collected: 12/17/18 00:00 Received: 12/18/18								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
VOC (water) by EPA Method 8260C	see attached					12/28/18	NA	721026460

LOQ = Limit of Quantitation LOD = Limit of Detection %DWB = (mg/kg DWB) / 10000

DWB = Dry Weight Basis MCL = Maximum Contaminant Levels for Drinking Water Samples.

1000 ug/L = 1 mg/L

Shaded results indicate >MCL.

Reviewed by:

Authorized by: Stemas Rhult

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 - PVOC & Naph Project Title: Template: SATSPVOC

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:

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

Notes: FO

RESULT	UNITS	DIL	LOD	LOQ	Note
ND	ug/L	10	2.1	7.3	
ND	ug/L	10	2.4	8.4	
ND	ug/L	10	2.1	7.4	
ND	ug/L	10	1.9	6.9	
ND	ug/L	10	-	13	
ND	ug/L	10			
ND	ug/L	10			
ND	ug/L	10	2.1	7.4	
ND	ug/L	10	4.3	15	
100%		10			S
112%		10			S
102%		10			S
	RESULT ND 100% 112%	RESULT UNITS ND ug/L 100% 112%	RESULT UNITS DIL ND ug/L 10 ND ug/L 10	RESULT UNITS DIL LOD ND ug/L 10 2.1 ND ug/L 10 2.4 ND ug/L 10 2.1 ND ug/L 10 2.1 ND ug/L 10 2.1 ND ug/L 10 3.7 ND ug/L 10 3.7 ND ug/L 10 1.9 ND ug/L 10 2.1 ND ug/L 10 4.3 100% 10 10 112% 10 10	RESULT UNITS DIL LOD LOQ ND ug/L 10 2.1 7.3 ND ug/L 10 2.4 8.4 ND ug/L 10 2.1 7.4 ND ug/L 10 2.1 7.4 ND ug/L 10 1.9 6.9 ND ug/L 10 3.7 13 ND ug/L 10 1.9 6.6 ND ug/L 10 2.1 7.4 ND ug/L 10 2.1 7.6 ND ug/L 10 2.1 7.4 ND ug/L 10 2.1 7.4 ND ug/L 10 4.3 15 100% 10 10 112% 10

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.

	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
Foluene-d8 (SURR)	112%		1			S
1-Bromo-4-Fluorobenzene (SURR)	96%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

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:

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

imsultant

Wisconsin DNR cert ID

721026460 (Cran) / 268533760 (Wauk)

CLIENT C

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NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298 Tel: (715) 470 0777 . Fer (715) 470 0000

5

ADDRESS 580 Shepaval St	Wisconsin DATCP ID Tel: (715) 478-2777 • Fax: (715) 478-3060					
CITY Rhine lander STATE NI ZIP 5452						
PROJECT DESCRIPTION / NO. QUOTATION NO.	SW = surface water Indicate G or C if WW Sample is Grab or Composite. WW = waste water Indicate G or C if WW Sample is Grab or Composite.					
DNR FID # DNR LICENSE #	GW = groundwater DW = drinking water					
CONTACT HOULD DEPLEY (J + PHONE	TIS = tissue AIR = air					
PURCHASE ORDER NO. FAX	SOIL = soil SED = sediment					
	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 MATRIX					
	GW = groundwater DW = drinking water TIS = tissue AIR = air SOIL = soil SED = sediment PROD = product SL = sludge OTHER AMATRIX See above) MATRIX See above) MATRIX See above) MATRIX Collection REMARKS (i.e. DNR Weil ID #)					
NO. LAB. NO. DATE 1. 1097786 B-201 8' 12/17	TIME (See above) (i.e. DNR Well ID #) 805 S X					
2. 7787 W-2	820 GW X					
3. 7788 W-3 V	900 GN X					
4. 7789						
5.						
6. GAN						
7. 01415						
8.						
9.						
10.						
CONFECTED BY (signature) it	CUSTODY SEAL NO. (IF ANY)					
RELINQUISHED BY (signature) RECEIVI	ED BY (signature) DATE/TIME					
DISPATCHED BY (signature) METHO	LS DICKUP 12/18/18					
RECEIVED AT NLS BY (signature) DATE/TIM	CONDITION TEMP. INVOICE TO					
HUNCE DIMILE B-1 REMARKS	8-18 830 On UL					
COOLER # PRESERVATIVE: N = nitric acid OH = sodium hydroxide WDNB FA	CILITY NUMBER E-MAIL ADDRESS					
NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid S = sulfuric acid M = methanol H = hydrochloric acid						
1. TO MEET REGULATORY REQUIREMENTS, THIS FORM 2. PLEASE USE ONE LINE PER SAMPLE, NOT PER BOTTI						
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KE	EP YELLOW COPY. O AND LISTED AS INVOICE TO AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.					