



The Chemours Company
500 West Jefferson Street
Suite 1600
Louisville, KY 40202

502-569-2301 t
chemours.com

April 23, 2020

Mr. Phil E. Richard
Hydrogeologist
Wisconsin Department of Natural Resources
Park Falls Service Center
875 4th Avenue South
Park Falls, WI 54554-1130

**RE: COVID-19 Related Project Impacts
Former DuPont Barksdale Works
72315 State Highway 13
Town of Barksdale, Bayfield County, Wisconsin
FID No.: 804009140
EPA ID No.: WIR000133447
BRRTS No. 02-04-00156**

Dear Mr. Richard:

I appreciate you and Chris Saari taking the time on Friday, April 17, 2020 to discuss work The Chemours Company FC, LLC's (Chemours) will undertake at the Former DuPont Barksdale Works (site) during the 2020 field season. As we discussed, Chemours plans to continue to focus on high priorities at the site in 2020, which will include:

- Ongoing investigation of former manufacturing areas, including identification and removal of residual solid product;
- Sampling surface water/sediment at the site perimeter;
- Maintaining existing biopilot test cells;
- Holding a public meeting;
- Requesting modification of the existing hazardous remediation variance (HWRV) to allow a soil heating pilot;
- Fulfilling reporting commitments associated with site investigation and hazardous remediation variance (HWRV) work; and,
- Fulfilling obligations associated with the WisDOT soil relocation project.

Unfortunately, Chemours is experiencing several COVID-19 related impacts that will prevent completion of some of our previously planned work at the site this field season. This work includes:

- **Soil Heating Field Pilot Testing:** Based on successful benchtop testing and thermal modeling in late 2019 and early 2020, Chemours was planning to conduct a field pilot to test the scalability of soil heating as a means to reduce larger pieces of residual solid product (RSP) in soil to a size that could be treated using the current alkaline hydrolysis techniques that have been successful elsewhere on the site (see attached HWRV Modification Request letter from Chemours to WDNR dated February 6, 2020). Addressing larger pieces of RSP is an integral part of the design of the final site remedy. Ongoing COVID-19 related delays will not allow Chemours enough time this summer to adequately complete design, construction, and initial testing of the heating field pilot in what is an already short field season in northern Wisconsin.



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- **Final Placement of WisDOT Soil:** Soil to be imported from the WisDOT Boyd Creek Bridge replacement project was going to be used as final cover in a former sulfur storage area in 2020. However, COVID-19 related delays are affecting identification of wetlands by WDNR staff (see attached requests submitted on March 17, 2020 and further information below), field surveying, the development and design of a grading plan, and completion of an Interim Action Plan as requested by WDNR. The delays will mean that WDNR approval of the requested Interim Action Plan will not occur prior the start of the WisDOT Boyd Creek Bridge project, which is currently targeted for mid-May 2020.

We are requesting the following regulatory flexibility to accommodate these disruptions:

- **WDNR extension of existing HWRV permit:** An extension of the HWRV permit from May 18, 2022 to May 18, 2023 will allow additional time to refine a full site remedial approach. The design of the remedial approach has been impacted due to the delay of the soil heating pilot testing that was planned from 2020 to 2021.
- **WDNR approval to stockpile WisDOT soil onsite until 2021:** The soil to be imported and placed on the site has concentrations of site-related constituents that are generally consistent with those found in soil in the proposed placement area. The concentrations found in the soil to be imported are also below screening criteria that are protective of human health for direct contact. Current Wisconsin regulations include standards for the management of contaminated soil. To allow for the stockpiling of WisDOT soil onsite until 2021, we are requesting an exemption from:
 - The requirement to provide an Interim Action Plan/Soil Management Plan prior to receiving and stockpiling WisDOT soil. An Interim Action Plan will be developed and submitted prior to the final placement of the WisDOT soil.
 - The requirements for storage of contaminated soil as specified in NR 718.05, which includes storage duration and stockpiling cover/anchor requirements. The soil is proposed to be stockpiled in the same general area as where it will be spread for final placement.
 - The requirement that that soil be placed more than 100 feet from wetlands. Wetland identification requests were submitted to the WDNR in March 2020 for the proposed soil placement area. Travis Holte from the WDNR indicated that there may be potential delays with the identification requests due to COVID-19 related impacts. WDNR wetland maps do not show known wetlands in proposed stockpile locations; however, wetlands are mapped within 100 feet. The proposed soil placement location is located in a former production area and if any wetlands were found in the area, they would likely be considered artificial.



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If you have any questions or comments, please feel free to contact me by telephone at (812) 923-1136 or by email at Bradley.S.Nave@chemours.com.

Sincerely,

A handwritten signature in blue ink that reads 'Bradley S. Nave' in a cursive script.

Bradley S. Nave
Chemours Corporate Remediation Group

Attachments: Hazardous Waste Remediation Variance Modification Request letter dated February 6, 2020
Wetland Identification Requests dated March 17, 2020

Cc: Chris Saari, WDNR
Cary Pooler, AECOM
Eric Schmidt, AECOM

Attachment 1

**Hazardous Waste Remediation Variance
Modification Request Letter dated
February 6, 2020**



The Chemours Company
500 West Jefferson Street
Suite 1600
Louisville, KY 40202

502-569-2301 t
chemours.com

February 6, 2020

Mr. Phil E. Richard
Hydrogeologist
Wisconsin Department of Natural Resources
Park Falls Service Center
875 4th Avenue South
Park Falls, WI 54554-1130

**RE: Hazardous Waste Remediation Variance Modification Request
Former DuPont Barksdale Explosives Plant
72315 State Highway 13
Town of Barksdale, Bayfield County, Wisconsin
FID No.: 804009140
EPA ID No.: WIR000133447
BRRTS No. 02-04-00156**

Dear Mr. Richard:

This letter comprises The Chemours Company FC, LLC's (Chemours') request for modification to the May 2015 Hazardous Waste Remediation Variance (HWRV) issued for the Former DuPont Barksdale Works site in Barksdale, Wisconsin (site). The modification will allow for the use of thermal heating methods to enhance degradation of nitroaromatic and nitramine organic constituents (NNOCs) in pilot test cells at the site. This modification request is being submitted as a condition of issuance (Condition 6) of the HWRV, which specifies the following:

- *Any changes in hazardous waste remediation activities which are not identified in the Revised Remediation Variance Request for Removal of Residual Product and Debris, dated February 17, 2012, or the Remediation Variance Renewal Request, dated February 22, 2017, will constitute a remediation variance modification. Modifications to this remediation variance shall be submitted as a Class 1 modification request requiring Department review and approval in accordance with s. NR 670.042(1), Wis. Admin. Code. The submittal shall include the appropriate fee stated in ch. NR 670, Wis. Adm. Code, Appendix II.*

Background

Chemours has been conducting in-situ pilot testing of bioremediation methods within test cells at the site as permitted in the May 2015 HWRV to study NNOC degradation processes in soil. As allowed in the permit, the in-situ mechanisms of constituent reduction within the test cells involve a combination of aerobic degradation via indigenous microorganisms and transformation via pH adjustment using lime amendments to promote alkaline hydrolysis (AH). Elevating the soil pH allows for degradation of high concentrations of 2,4,6-trinitrotoluene (TNT) and other NNOCs, which can limit biodegradation. The transformation via AH occurs in the soil pore water through dissolution of the NNOCs. It has been observed in lab and field studies that TNT particle size limits mass transfer to the aqueous phase.

Chemours' investigation of the site has identified that TNT is present in soil over a range of particle sizes from fine, sand grain sized to several inches or greater. The field process appears to address most fine-grained particles in soil. However, it has been determined that attrition (i.e. size reduction of residual solid product [RSP]) of the larger particles is necessary to increase

transfer to the aqueous phase by reducing particle size and increasing surface area of larger pieces of RSP in soil.

Several techniques to reduce RSP size have been evaluated to date. Based on the results of these evaluations, the project team has identified low temperature, thermally assisted particle size reduction as a focus area for further evaluation. The approach developed for this technique included pre-treatment of soil with hydrated lime to reduce soil plasticity, followed by heating of the soil to the melt temperature of TNT. Once the desired temperature is reached, the soil and molten TNT would be mixed. Initial melt and mixing tests were performed by the United States Army Corps of Engineers (USACE) at their Engineer Research and Development Center in Vicksburg, Mississippi under a Cooperative Research and Development Agreement. The results of the testing indicated that:

- TNT can be safely melted and mixed with soil without risk of fire or explosion,
- TNT particle size after melting and mixing was small enough to allow AH to occur, and,
- The AH process is accelerated at elevated temperatures, with a general twofold increase in rate for every 10 degrees Celsius ($^{\circ}$ C) that temperature was increased. This rate increase is primarily because the solubility of the NNOCs was observed to increase with elevated temperature, and degradation via AH occurs in the aqueous phase.

Proposed Pilot Test at Site

Based on the results of the work completed to date, Chemours requests a modification to include in-situ heating, in addition to, water and pH amendments currently being used. Chemours proposes to conduct a pilot test at the site to evaluate the feasibility of heating soil, RSP, hydrated lime, and water mix in a test cell. Cell contents will be heated to temperatures above the TNT melt temperature of 176° Fahrenheit (F) (80° C). After heating, the contents of the cell will be mixed using a rotary mix-head attached to an excavator.

Chemours is currently evaluating soil heating mechanisms and conceptual designs for heating the soil at the Barksdale site. Although the specific heating process, duration and temperatures utilized during the pilot test has not yet been determined, the addition of heat will be the only change to the current field pilot testing. All other pilot work, permitted as part of the current HWRV, will remain the same, with the exception of cell configuration/construction. In order to efficiently distribute heat evenly, slight modification of the cell design may be required.

One of the conceptual designs being considered includes the use of a closed loop system of pipes installed in a treatment cell as shown on Figure 1. Heat to the pipes would be supplied by a fluid heating system positioned outside the test cell and heat would be transferred from the pipes to the soil through conduction. The test cells will be constructed with a clay base, berms, and a stormwater/sediment containment basin as described in the HWRV. An insulating layer may be added to retain heat in the cell.

Chemours may also evaluate small ex-situ batch treatment systems performed in a small closed container, such as a 55-gallon drum.

The findings of the soil heating pilot test are anticipated to be incorporated into an interim action and/or remedial action plan(s) for the site, which is due to the WDNR prior to the expiration of the HWRV on May 18, 2022.



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If you have any questions or comments, please feel free to contact me by telephone at (812) 923-1136 or by email at Bradley.S.Nave@chemours.com.

Sincerely,

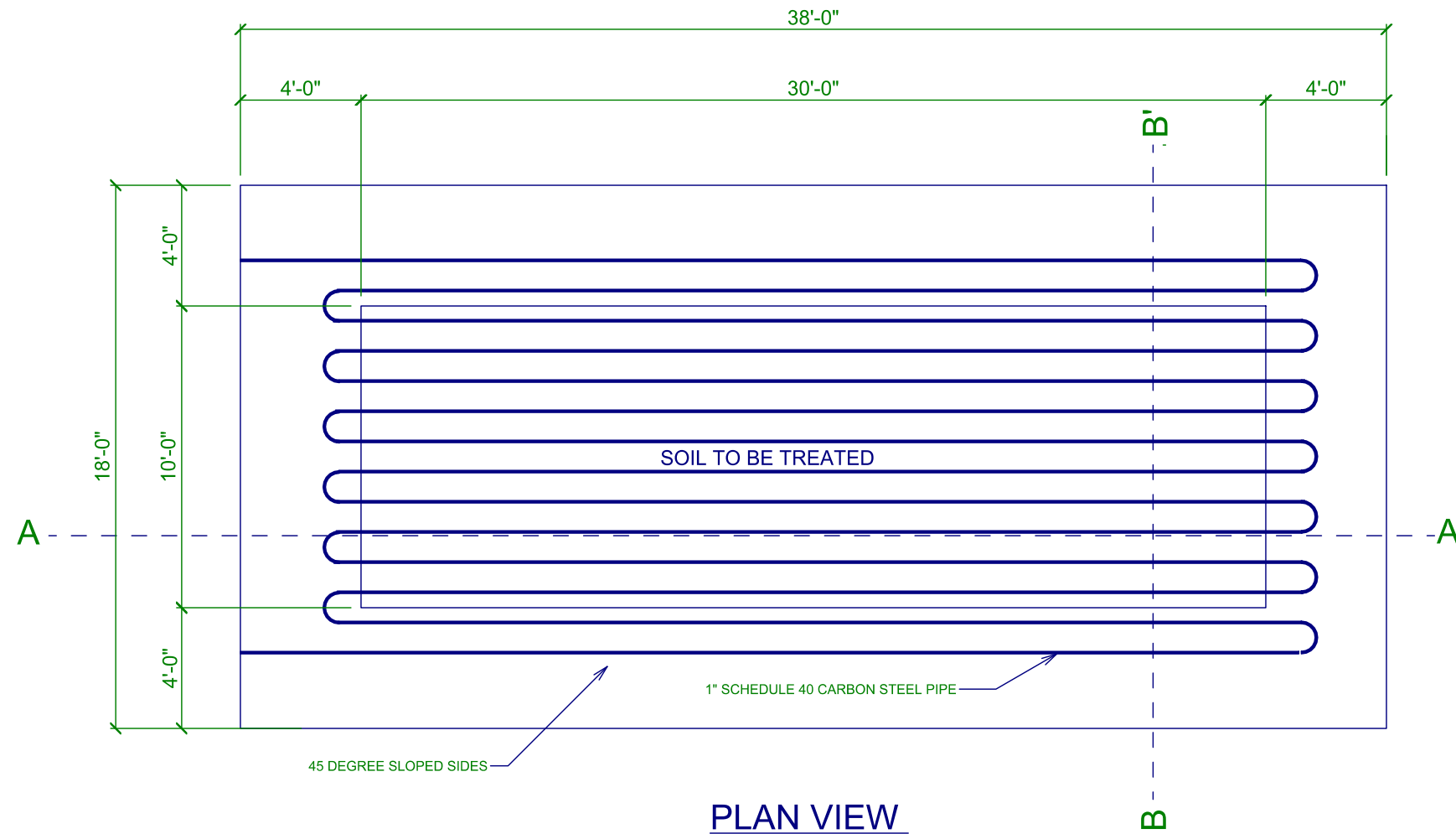
A handwritten signature in blue ink that reads 'Bradley S. Nave'.

Bradley S. Nave
Chemours Corporate Remediation Group

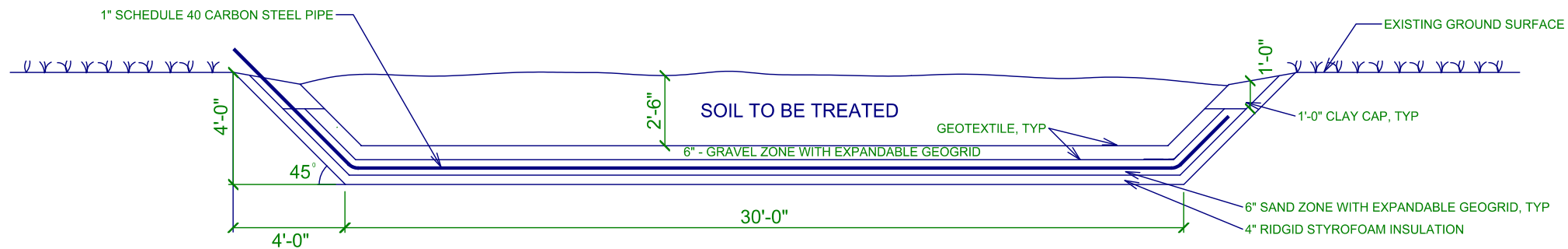
Attachments: Figure 1 – Modular Closed Loop Steam Conductive Soil Heating Concept
Check for \$400 (NR 670 Review of Class 1 Modification Fee)

Cc: Chris Saari, WDNR
Jill Schoen, WDNR
Cary Pooler, AECOM
Eric Schmidt, AECOM

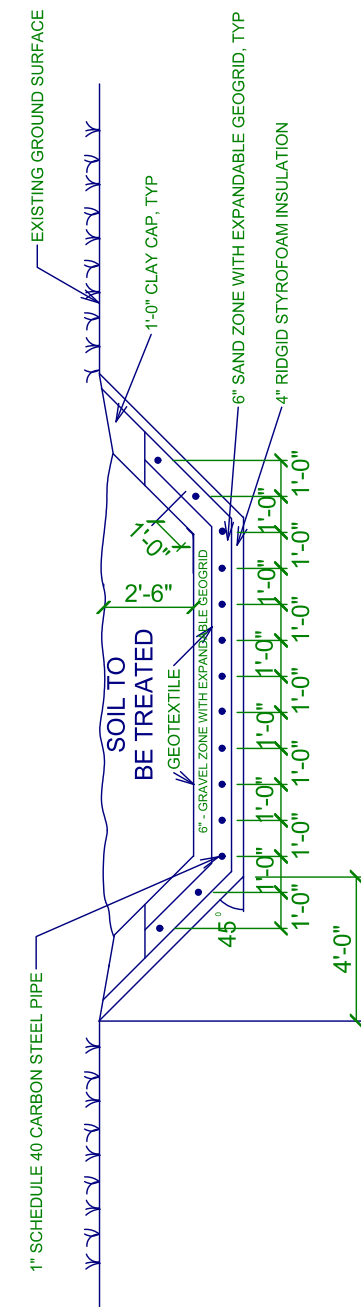
G:\Projects\Barksdale\GIS\Mapa\Maps 2020\Jan\Conductive Soil Heating Concept.mxd



PLAN VIEW



SECTION AA'



SECTION BB'

Notes:
 Conceptual arrangement; actual layout may be modified as needed.

Scale: 3/16" = 1'
 MAP FORMATTED FOR "B" (11" X 17") SIZE SHEET.
 SCALE NOT VALID FOR DIFFERENT PAGE SIZE.

FILE NUMBER:
 DESIGNED BY: RL
 DRAWN BY: VN
 DATA QUALITY CHECK BY: ES

Conductive Soil Heating Concept

Former DuPont Barksdale Works
 Barksdale, Wisconsin 54806

PROJECT NUMBER:
 60525652
 DATE:
 01/15/2020
 FIGURE NUMBER:
 1

Attachment 2

**Wetland Identification Requests dated
March 17, 2020**

Wetland Identification Requests

General Information

Complete all sections, **Save** your work, **Move** between tabs, **Pay** online by credit card, debit card or e-check. (You must use this system to pay all application fees), **Include** your digital signature, **Submit** the Application to the DNR.

NOTE: Missing or incomplete fields are highlighted at the bottom of each page. You may save, close and return to your draft permit as often as necessary to complete your application. If there are **no** updates in 90 days, your draft is **deleted**.

Project Information

Wetland ID Activity: Wetland Identification Request

Project Name:

Project Description and Site Narrative

In the space below, Please provide a brief reason for Determination (future development, building expansion, conservation activities, construction, etc.)

Required Attachments and Supplemental Information - Not Started - Required

Wetland Identification Requests

Please complete the contents of each tab and pay online to submit your Wetland Identification Request. The information you provide will be used to submit Form 3500-119.

- **Site Map** - Map of Project area and/or map indicating area to be identified. This is satisfied by completing the map on the Site page. Additional maps may be uploaded to the attachment page
- **Narrative** - Reason for the determination, i.e. future development, building expansion, conservation activities, construction, etc.
- **Other Items** (Optional)

Contact Information

Notice: This form is to be included with all requests that are submitted to the Department's Wetland Identification Program. Failure to submit all of the requested information to the Department may delay our response to your request. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

Requester's Information

Last Name: Schmidt

First Name: Eric

Title:

Organization: AECOM

Address: 200 Indiana Avenue

City: Stevens Point

State: WI

Zip Code: 54481

Email: eric.schmidt@aecom.com

Phone Number: 920-621-3878 **xxx-xxx-xxxx**

Site Owners Information Select if same as Requester:

Last Name: Bretting

First Name: Paul

Title:

Organization: Bretting Development Corporation

Address: 3401 Lake Park Road

City: Ashland

State: WI

Zip Code: 54806

Email: paulbretting@bretting.com

Phone Number: 715-682-5231 **xxx-xxx-xxxx**

Site Information - Complete

Address: 72315 Highway 13

City: Ashland

State: WI

Zip Code: 54806

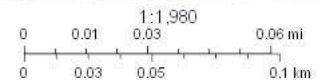
Acreage: 4.928

Government Lot #:

Site Map ID0725-Former-Barksdale-Works



March 16, 2020



Copyright Wisconsin Dept of Natural Resources

You must include a map showing the exact location of the parcel(s) of land for your request. If you do not wish to have an entire area considered, you must indicate on the map the exact location of the area(s) for your request.

Wetland Identification Request areas must be 5 acres or less.

Legal Description

County: Bayfield

Municipality: City Township Village
of BARKSDALE;T

Quarter-Quarter: NW

Quarter: NE

Section: 23

Township: 48

N

Range: 05

East West

(PLSS information filled in by the site map created on this page)

Required Attachments and Supplemental Information - Not Started - Required

A complete submittal with detailed drawings will help us make a decision about your permit application. Any applicable statutory review times do not begin until the application is received by the Department and is determined to be complete.

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- **Other Items** (Optional)

Upload Required Attachments (15 MB per file limit) - [Help reduce file size and trouble shoot file uploads](#)

***Required Item**

Note: To replace an existing file, use the 'Click here to attach file ' link or to delete an item.

Delineation Report (written portion)

 File Attachment

Delineation Data Forms

 File Attachment

Narrative

 File Attachment

[4a Narrative.pdf](#)

Agricultural or Roadway Use Aerial Map

 File Attachment

Wetland Delineation Map

 File Attachment

Soil Survey Map

 File Attachment

Wisconsin Wetland Inventory Map

 File Attachment

Topographical Map

 File Attachment

Other Site Maps

Select Map Type: [...Select Map Type](#)

 File Attachment

Other Attachments

 File Attachment

(Click insert to add additional Other Items or Site Photos. Use your cursor to hover over the file name field. When the drop down arrow appears, select insert or remove item)

Complete Payment

Your Invoice Number: WP-00022450

Amount Due: \$1,500

STEP 1:

Payment is Complete

Confirmation
Number: WS2WT3004475567

Upon completing payment in STEP 1, you will receive an email confirmation from DNRFINANCEPYMNT with a DNR-Water Div. Volume Permits subject line. Enter 15 digit transaction number into the box above.

Please note that payment is considered successful when your financial institution renders payment for this transaction. Failure of US Bank to collect and transfer funds from the permit applicant to the DNR, does not release the applicant of financial responsibility and the DNR reserves the right to collect unpaid fees.

All payments are collected by US Bank which is an external website contracted by the Wisconsin Department of Natural Resources for the sole purpose of collecting payments over the web.

Sign and Submit Your Application

Steps to Complete the signature process

1. Read and Accept the Terms and Conditions
2. Press the Submit and Send to the DNR button

NOTE: For security purposes all email correspondence will be sent to the address you used when registering your WAMS ID. This may be a different email than that provided in the application. For information on your WAMS account click [HERE](#).

Terms and Conditions

Owner Certification: As the owner, lessee or easement holder of the property, I am requesting the Department complete an artificial wetland exemption determination and I grant access to the property for this purpose. If not the owner, I am an authorized agent for the owner, lessee or easement holder.

Authorized Signature.

- I accept the above terms and conditions.

Signed by : i:0#.f|wamsmembership|ericcschmidt on 2020-03-17T13:37:44

You have already signed and submitted this application to the DNR. Please [contact the Wisconsin DNR](#) for assistance.

After providing the final authorized signature, the system will send an email to the authorized party and any agents. This email will include a copy to the final read only version of this application.

PROJECT INFORMATION - Former Barksdale Works - PAT

Project Description:

Geographical Management Unit:	<input type="text"/>
	https://permits.dnr.wi.gov/water/Lists/Public%20Issues/Attachments/1694/GMU%20Map.pdf
Wetland Bank Service Area:	<input type="text"/>
County:	Bayfield
Municipality:	<input type="radio"/> City <input checked="" type="radio"/> Township <input type="radio"/> Village of BARKSDALE;T
Quarter-Quarter:	<input type="text" value="NW"/>
Quarter:	<input type="text" value="NE"/>
Section:	<input type="text" value="23"/>
Township:	<input type="text" value="48"/> N
Range:	<input type="text" value="05"/> <input type="radio"/> East <input checked="" type="radio"/> West
Latitude:	<input type="text" value="46.628094915"/>
Longitude:	<input type="text" value="-90.953904379"/>

(PLSS information filled in by the site map created on this page)

PROPOSED UNAVOIDABLE WETLAND IMPACTS BY COVER TYPE AND DELINEATED ACREAGE

<i>Wetland Cover Type</i>	<i>Acreage (to nearest 0.01)</i>
Shallow, Open Water:	<input type="text"/>
Deep and Shallow Marshes:	<input type="text"/>
Sedge Meadows:	<input type="text"/>
Fresh (Wet) Meadow:	<input type="text"/>
Wet to Wet - Mesic Prairie:	<input type="text"/>
Calcareous Fens:	<input type="text"/>
Bogs (Open or Coniferous):	<input type="text"/>
Shrub - Carr or Alder Thicket:	<input type="text"/>
Hardwood or Coniferous Swamps:	<input type="text"/>
Floodplain Forests:	<input type="text"/>
Seasonally Flooded Basins	<input type="text"/>

Wetland Identification Requests

General Information

Complete all sections, **Save** your work, **Move** between tabs, **Pay** online by credit card, debit card or e-check. (You must use this system to pay all application fees), **Include** your digital signature, **Submit** the Application to the DNR.

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Requester's Information

Last Name: Schmidt

First Name: Eric

Title:

Organization: AECOM

Address: 200 Indiana Avenue

City: Stevens Point

State: WI

Zip Code: 54481

Email: eric.schmidt@aecom.com

Phone Number: 920-621-3878 **xxx-xxx-xxxx**

Site Owners Information Select if same as Requester:

Last Name: Bretting

First Name: Paul

Title:

Organization: Bretting Development Corporation

Address: 3401 Lake Park Road

City: Ashland

State: WI

Zip Code: 54806

Email: paulbretting@bretting.com

Phone Number: 715-682-5231 **xxx-xxx-xxxx**

Site Information - Complete

Address: 72315 Highway 13

City: Ashland

State: WI

Zip Code: 54806

Acreage: 4.985

Government Lot #:

Site Map ID4038-Former-Barksdale-Works--PAT-



March 12, 2020

1:1,980
0 0.01 0.03 0.06 mi
0 0.03 0.05 0.1 km

Copyright Wisconsin Dept of Natural Resources

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Wisconsin Wetland Inventory Map

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Topographical Map

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Select Map Type: [...Select Map Type](#)

 File Attachment

Other Attachments

 File Attachment

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Your Invoice Number: WP-00022463

Amount Due: \$1,500

STEP 1:

Payment is Complete

Confirmation
Number: WS2WT3004476700

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Owner Certification: As the owner, lessee or easement holder of the property, I am requesting the Department complete an artificial wetland exemption determination and I grant access to the property for this purpose. If not the owner, I am an authorized agent for the owner, lessee or easement holder.

Authorized Signature.

- I accept the above terms and conditions.

Signed by : i:0#.f|wamsmembership|ericcschmidt on 2020-03-17T16:21:34

You have already signed and submitted this application to the DNR. Please [contact the Wisconsin DNR](#) for assistance.

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Quarter-Quarter:	<input type="text" value="NW"/>
Quarter:	<input type="text" value="NE"/>
Section:	<input type="text" value="23"/>
Township:	<input type="text" value="48"/> N
Range:	<input type="text" value="05"/> <input type="radio"/> East <input checked="" type="radio"/> West
Latitude:	<input type="text" value="46.629068183"/>
Longitude:	<input type="text" value="-90.953702210"/>

(PLSS information filled in by the site map created on this page)

PROPOSED UNAVOIDABLE WETLAND IMPACTS BY COVER TYPE AND DELINEATED ACREAGE

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Deep and Shallow Marshes:	<input type="text"/>
Sedge Meadows:	<input type="text"/>
Fresh (Wet) Meadow:	<input type="text"/>
Wet to Wet - Mesic Prairie:	<input type="text"/>
Calcareous Fens:	<input type="text"/>
Bogs (Open or Coniferous):	<input type="text"/>
Shrub - Carr or Alder Thicket:	<input type="text"/>
Hardwood or Coniferous Swamps:	<input type="text"/>
Floodplain Forests:	<input type="text"/>
Seasonally Flooded Basins	<input type="text"/>

Wetland Identification Requests

General Information

Complete all sections, **Save** your work, **Move** between tabs, **Pay** online by credit card, debit card or e-check. (You must use this system to pay all application fees), **Include** your digital signature, **Submit** the Application to the DNR.

NOTE: Missing or incomplete fields are highlighted at the bottom of each page. You may save, close and return to your draft permit as often as necessary to complete your application. If there are **no** updates in 90 days, your draft is **deleted**.

Project Information

Wetland ID Activity: Wetland Identification Request

Project Name:

Project Description and Site Narrative

In the space below, Please provide a brief reason for Determination (future development, building expansion, conservation activities, construction, etc.)

Required Attachments and Supplemental Information - Not Started - Required

Wetland Identification Requests

Please complete the contents of each tab and pay online to submit your Wetland Identification Request. The information you provide will be used to submit Form 3500-119.

- **Site Map** - Map of Project area and/or map indicating area to be identified. This is satisfied by completing the map on the Site page. Additional maps may be uploaded to the attachment page
- **Narrative** - Reason for the determination, i.e. future development, building expansion, conservation activities, construction, etc.
- **Other Items** (Optional)

Contact Information

Notice: This form is to be included with all requests that are submitted to the Department's Wetland Identification Program. Failure to submit all of the requested information to the Department may delay our response to your request. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

Requester's Information

Last Name: Schmidt

First Name: Eric

Title:

Organization: AECOM

Address: 200 Indiana Avenue

City: Stevens Point

State: WI

Zip Code: 54481

Email: ericcschmidt@aecom.com

Phone Number: 920-621-3878 **xxx-xxx-xxxx**

Site Owners Information Select if same as Requester:

Last Name: Bretting

First Name: Paul

Title:

Organization: Bretting Development Corporation

Address: 3401 Lake Park Road

City: Ashland

State: WI

Zip Code: 54806

Email: paulbretting@bretting.com

Phone Number: 715-682-5231 **xxx-xxx-xxxx**

Site Information - Complete

Address: 72315 Highway 13

City: Ashland

State: WI

Zip Code: 54806

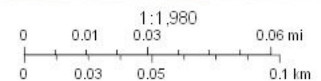
Acreage: 4.771

Government Lot #:

Site Map ID1144-Former-Barksdale-Works--PAF



March 16, 2020



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You must include a map showing the exact location of the parcel(s) of land for your request. If you do not wish to have an entire area considered, you must indicate on the map the exact location of the area(s) for your request.

Wetland Identification Request areas must be 5 acres or less.

Legal Description

County: Bayfield

Municipality: City Township Village
of BARKSDALE;T

Quarter-Quarter: NW

Quarter: NE

Section: 23

Township: 48

N

Range: 05

East West

(PLSS information filled in by the site map created on this page)

Required Attachments and Supplemental Information - Not Started - Required

A complete submittal with detailed drawings will help us make a decision about your permit application. Any applicable statutory review times do not begin until the application is received by the Department and is determined to be complete.

Wetland Identification Requests

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- **Site Map** - Map of Project area and/or map indicating area to be identified
- **Narrative** - Reason for the determination, i.e. future development, building expansion, conservation activities, construction, etc.
- **Other Items** (Optional)

Upload Required Attachments (15 MB per file limit) - [Help reduce file size and trouble shoot file uploads](#)

***Required Item**

Note: To replace an existing file, use the 'Click here to attach file ' link or to delete an item.

Delineation Report (written portion)

 File Attachment

Delineation Data Forms

 File Attachment

Narrative

 File Attachment

[4a Narrative.pdf](#)

Agricultural or Roadway Use Aerial Map

 File Attachment

Wetland Delineation Map

 File Attachment

Soil Survey Map

 File Attachment

Wisconsin Wetland Inventory Map

 File Attachment

Topographical Map

 File Attachment

Other Site Maps

Select Map Type: [...Select Map Type](#)

 File Attachment

Other Attachments

 File Attachment

(Click insert to add additional Other Items or Site Photos. Use your cursor to hover over the file name field. When the drop down arrow appears, select insert or remove item)

Complete Payment

Your Invoice Number: WP-00022464

Amount Due: \$1,500

STEP 1:

Payment is Complete

Confirmation
Number:

WS2WT3004476735

Upon completing payment in STEP 1, you will receive an email confirmation from DNRFINANCEPYMNT with a DNR-Water Div. Volume Permits subject line. Enter 15 digit transaction number into the box above.

Please note that payment is considered successful when your financial institution renders payment for this transaction. Failure of US Bank to collect and transfer funds from the permit applicant to the DNR, does not release the applicant of financial responsibility and the DNR reserves the right to collect unpaid fees.

All payments are collected by US Bank which is an external website contracted by the Wisconsin Department of Natural Resources for the sole purpose of collecting payments over the web.

Sign and Submit Your Application

Steps to Complete the signature process

1. Read and Accept the Terms and Conditions
2. Press the Submit and Send to the DNR button

NOTE: For security purposes all email correspondence will be sent to the address you used when registering your WAMS ID. This may be a different email than that provided in the application. For information on your WAMS account click [HERE](#).

Terms and Conditions

Owner Certification: As the owner, lessee or easement holder of the property, I am requesting the Department complete an artificial wetland exemption determination and I grant access to the property for this purpose. If not the owner, I am an authorized agent for the owner, lessee or easement holder.

Authorized Signature.

- I accept the above terms and conditions.

Signed by : i:0#.f|wamsmembership|ericcschmidt on 2020-03-17T16:26:23

You have already signed and submitted this application to the DNR. Please [contact the Wisconsin DNR](#) for assistance.

After providing the final authorized signature, the system will send an email to the authorized party and any agents. This email will include a copy to the final read only version of this application.

PROJECT INFORMATION - Former Barksdale Works - PAF

Project Description:

Geographical Management Unit:	<input type="text"/>
	https://permits.dnr.wi.gov/water/Lists/Public%20Issues/Attachments/1694/GMU%20Map.pdf
Wetland Bank Service Area:	<input type="text"/>
County:	Bayfield
Municipality:	<input type="radio"/> City <input checked="" type="radio"/> Township <input type="radio"/> Village of BARKSDALE;T
Quarter-Quarter:	<input type="text" value="NW"/>
Quarter:	<input type="text" value="NE"/>
Section:	<input type="text" value="23"/>
Township:	<input type="text" value="48"/> N
Range:	<input type="text" value="05"/> <input type="radio"/> East <input checked="" type="radio"/> West
Latitude:	<input type="text" value="46.627653950"/>
Longitude:	<input type="text" value="-90.953435277"/>

(PLSS information filled in by the site map created on this page)

PROPOSED UNAVOIDABLE WETLAND IMPACTS BY COVER TYPE AND DELINEATED ACREAGE

<i>Wetland Cover Type</i>	<i>Acreage (to nearest 0.01)</i>
Shallow, Open Water:	<input type="text"/>
Deep and Shallow Marshes:	<input type="text"/>
Sedge Meadows:	<input type="text"/>
Fresh (Wet) Meadow:	<input type="text"/>
Wet to Wet - Mesic Prairie:	<input type="text"/>
Calcareous Fens:	<input type="text"/>
Bogs (Open or Coniferous):	<input type="text"/>
Shrub - Carr or Alder Thicket:	<input type="text"/>
Hardwood or Coniferous Swamps:	<input type="text"/>
Floodplain Forests:	<input type="text"/>
Seasonally Flooded Basins	<input type="text"/>