

Horseshoe Lake Newsletter
April 24, 2021

Hello,

Last weekend, when I put my pontoon back in the water, my son and I put markers around the EWM bed in the northwest corner of the west basin. Our consultant, Dave Blumer, thought it would be a good idea to mark the bed since treatment won't occur for a number of weeks.

Dave Blumer applied for a permit to treat 1.16 acres for EWM. You can see the areas that will be treated in the attached map. Treatment will occur between ice-out and June 30th. We want the plants to be actively growing so ProcellaCOR EC will probably be applied in May or early June. Dave provided me with a list of all the riparian owners and a letter to send to each owner by USPS, so they are aware of the treatment plan. Placards will be posted on shore also. I will put all the documents on our website, and I will notify all the owners on my email list too. I will find out from Dale Dressel what the specific restrictions are for lake usage after treatment occurs.

Based on the Board's earlier approval last summer to treat the lake, I have requested a contract from Dale Dressel, Northern Aquatic Services, LLC. The estimated costs will be \$3,331.00. I signed the contract and sent it back to Dale Dressel so that we get on his schedule.

Please let me know if you have any questions or concerns.

Ed Wink
Secretary/Treasurer

State of Wisconsin DNR Department of Natural Resources Water Permit Central Intake – attn. APM PO Box 7185 Madison, WI 53707-7185	Chemical Aquatic Plant Control Permit
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Permit Number: NO-2021-66-10297
Permit Expiration Date: 12/31/2021
Waterbody Name: Horseshoe Lake

Waterbody # (WBIC): 2470000
Fee Received: 70
Waterbody Address: N12590 Horseshoe Bend Rd

Applicant Name: Edward Wink
11895 Dunkirk Circle NE
Blaine, MN 55449
Email:
Phone:

Applicator Name: Northern Aquatic Services
1061 240th St
Dresser, WI 54009
Email: ddressel@centurytel.net
Phone: 715-495-5252

Advanced Notification of Treatment is required

The Department has received and reviewed your application to chemically treat up to 1.16 acres of Eurasian Watermilfoil in Horseshoe Lake in Washburn County. Aspects of this permit may not be changed. Please go to this web address:

<https://permits.dnr.wi.gov/water/SitePages/Permit%20Search.aspx> to search for and download the permit documents. Your permit application meets the minimum requirements by law and a permit is being issued with the following conditions.

- It is the responsibility of the applicant to follow the treatment plan outlined in the permit application and permit conditions. The treatment notification protocols, treatment plan, and reporting protocols shall be performed in compliance with Wisconsin Administrative Code Chapter NR 107. Noncompliance with the permit can result in enforcement actions under Wis. Stat. ss. 23.24(6) and 281.98 and restriction of aquatic plant management activities for subsequent years under Wis. Adm. Code Ch. NR 107. The conditions and treatment plan are required to be followed to ensure efficacy of the treatment.
- You shall notify Tyler Mesalk of the Department of Natural Resources at 715-416-5066 or tyler.mesalk@wisconsin.gov, at least 4 business days before treatment with the date and time of proposed treatment.
- The Department may stop or limit the application of chemicals to a body of water if at any time it determines that the treatment will be ineffective, or will result in unreasonable restrictions on current water uses, or will produce unnecessary adverse side effects on nontarget organisms.
- You shall have a paper or electronic copy of this cover letter and permit with the individual conducting the treatment.
- You shall submit the Aquatic Plant Management Treatment record on the most updated form supplied by the Department as follows:
 - a. Immediately, if any unusual circumstances occur during treatment.
 - b. Within 30 days, if treatment occurs.

c. By October 1 of this year if no treatment occurred.

Notice:

- You shall decontaminate all project equipment used in the waterbody to minimize transport of aquatic invasive species (AIS) immediately after each use on the project site. You shall utilize best management practices:
<https://dnr.wi.gov/topic/Invasives/disinfection.html> You shall comply with all provisions in State Stat. s. 30.07 and Wis. Adm Code s. NR 40.07 and Manual code 9183.1 For further information, please refer to the following:
<https://dnr.wi.gov/topic/invasives/classification.html>.
- The approval of an aquatic plant management permit does not represent an endorsement of the permitted activity but represents that the applicant has complied with all criteria of this chapter.

If you have any questions or concerns, I can be reached at 715-635-4227/715-416-5066 or by email at tyler.mesalk@wisconsin.gov

State of Wisconsin Department of Natural Resources for the Secretary

By: Mesalk, Tyler	4/20/2021	4/20/2021
Water Resources Biologist	Date Signed	Date Mailed

Please Note:

If you believe that you have a right to challenge this decision, you should know that Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review shall name the Department of Natural Resources as the respondent. This notice is provided pursuant to s. 227.48(2), Wis. Stats. To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30-day period for filing a petition for judicial review.

Aquatic Plant Management

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

This Application has been Signed and Submitted by: i:0#f|wamsmembership|blumedl signed on 2021-03-30T19:34:34

Site or Project Name:

2021 Horseshoe Lake, Washburn County EWM-ProcellaCOR Treatment Project

The permit application will be saved automatically with this name

Activity:

Chemical Control Application

Eligibility:

(All questions must be no for it to be considered a private pond.)

Is there more than one property owner?

Yes No

Will there be uncontrolled surface water discharge?

Yes No

Does the water body have public access?

Yes No

3200-004 Chemical Aquatic Control Application

NOTE: To be considered a private pond, a waterbody must meet all of the following requirements:

1. Confined to one property owner.
2. The pond has no uncontrolled surface water discharge.
3. No public access.

Upon submittal of your permit application, a **non-refundable \$20 permit processing fee will be charged**. Additional acreage fees will be refunded if the permit request is denied or if no treatment occurs.

3200-004 Chemical Aquatic Plant Control Application

- Annually complete all pages on Form 3200-004 for chemical plant management applications. Complete form 3200-004a for large scale treatments(exceeds 10.0 acres in size or 10% of the area of the water body that is 10 feet or less in depth) as required by NR107.04(3).
 - Form 3200-004 is completed electronically through this system.
 - Form 3200-004a must be completed outside the system and uploaded to the attachments section. Please refer to this link for a copy of this form: <http://dnr.wi.gov/files/pdf/forms/3200/3200-004A.pdf>
- Attach a map that shows the treatment location(s), treatment dimensions and riparian landowners. If requesting WPDES coverage, attach a water body map that shows surface outflow and receiving waters.
- For a large-scale treatment, attach evidence that a public notice has been published in a regional / local newspaper and if required that a public informational meeting has been conducted as defined in NR107.04(3).
- Pay fee online.
- Sign and Submit form.
- A signed permit application certifies to the Department that a copy of the application has been provided to any affected property owner's association/district and to landowners adjacent to treatment area.

Contact Information

Applicant Information

Organization: Horseshoe Lake Property Owners Association

Last Name: Wink

First Name: Edward

Mailing Address: 11895 Dunkirk Circle NE

City: Blaine

State: MN

Zip Code: 55449

Email: ewink@umn.edu

Phone Number: 612-239-8722
(xxx-xxx-xxxx)

Alternative Phone Number:
(xxx-xxx-xxxx)

Waterbody Address

Last Name:

First Name:

Street Address: N12590 Horseshoe Bend Rd

City: Minong

State: WI

Zip Code: 54859

Email:

Phone Number:
(xxx-xxx-xxxx)

Alternative Phone Number:
(xxx-xxx-xxxx)

Applicator

Name of Applicator Firm: Northern Aquatic Services

Applicator Certification #: 061742

Business Location License #:

Restricted Use Pesticide #:

Address: 1061 240th St

City: Dresser

State: WI

Zip: 54009

Email: ddressel@centurytel.net

Phone Number:
(xxx-xxx-xxxx)

Adjacent Riparian Property Owners or Other Individuals Sponsoring Removal

Individuals and organizations (e.g. Lake District, Lake Association, Property Owners Association, County Department of Recreation), sponsoring removal.

Uploaded riparian owners to attachment tab

Name	Address	Phone	Email Address
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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Site Information - Complete

Water Body to be Treated

Waterbody Property Owners Association or Waterbody District Representative :
 None

Water Body Name:

County:

Latitude:

Longitude:

Section:

Township:

Range:

Direction: E W

Waterbody Surface Area: acres

Estimated Surface area that is 10ft or less: acres

Proposed Treatment Area

Area(s) Proposed for Control:

Treatment Length	Treatment Width		Estimated Acreage	Average Depth	Calculated Volume
<input type="text" value="420"/> ft.	x <input type="text" value="92"/> ft.	+ 43,560 ft ² =	<input type="text" value="0.89"/> ac	<input type="text" value="9"/> ft =	<input type="text" value="7.98"/> ac-ft
<input type="text" value="233"/> ft.	x <input type="text" value="51"/> ft.	+ 43,560 ft ² =	<input type="text" value="0.27"/> ac	<input type="text" value="4"/> ft =	<input type="text" value="1.09"/> ac-ft
Estimated Acreage Grand Total			<input type="text" value="1.16"/> ac	Calculated Volume Grand Total	<input type="text" value="9.07"/> ac-ft

Is the area with in or adjacent to a sensitive area designated by the Department of Natural Resources.

Yes No

If the estimated acreage is greater than 10 acres, or is greater than 10 percent of the estimated area 10 feet or less in depth in Section II, complete and attach Form 3200-004A, Large-Scale Treatment Worksheet.

Chemical Aquatic Plant Control Information - Form 3200-004 (R 2/17)

Notice: Use of this form is required by the Department for any application filed pursuant to s. 281.17(2), Wis. Stats., and Chapters NR 107, 200 and 205, Wis. Adm. Code. This permit application is required to request coverage for pollutant discharge into waters of the state. Personally identifiable information on this form may be provided to requesters to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

Is this permit being requested in accordance with an approved Aquatic Plant Management Plan?

- Yes No

Treatment Type:

- Lake Pond Wetland Marina Other

Goal of Aquatic Plant Control:

- Maintain navigation channel
- Maintain boat landing and carry in access
- Improve fish habitat
- Maintain swimming area
- Control of invasive exotics
- Other

Nuisance Caused By:

- Algae
- Emergent water plants (majority of leaves & stems growing above water surface, e.g. cattail, bulrushes)
- Floating water plants (majority of leaves floating on water surface, e.g., water lilies, duckweed)
- Submerged water plants (leaves & stems below surface, flowering parts may be exposed: milfoil, coontail)
- Other

List Target Plants

- | | | |
|---|--|--|
| <input type="checkbox"/> Algae | <input type="checkbox"/> Flowering Rush | <input type="checkbox"/> Purple Loosestrife |
| <input type="checkbox"/> Common/Glossy Buckthorn | <input type="checkbox"/> Hybrid Cattail | <input type="checkbox"/> Reed Canary Grass |
| <input type="checkbox"/> Coontail | <input type="checkbox"/> Hybrid Watermilfoil | <input type="checkbox"/> Reed Manna Grass |
| <input type="checkbox"/> Curly-Leaf Pondweed | <input type="checkbox"/> Japanese Knotweed | <input type="checkbox"/> Starry Stonewort |
| <input type="checkbox"/> Duckweed | <input type="checkbox"/> Naiad | <input type="checkbox"/> Yellow Floating Heart |
| <input type="checkbox"/> Elodea | <input type="checkbox"/> Narrow-Leaf Cattail | <input type="checkbox"/> Yellow Iris |
| <input checked="" type="checkbox"/> Eurasian Watermilfoil | <input type="checkbox"/> Phragmites | <input type="checkbox"/> Pondweed |

Other Target Plants:

Note: Different plants require different chemicals for effective treatment. Do not purchase chemical before identifying plants.

Chemical Control

Full Trade Name of Proposed Chemical(s)

Select Chemical Name: ProcellaCOR EC

Other (not listed above) Other:

Have the proposed chemicals been permitted in a prior year on the proposed site?

All Some None

Method of Application:

What were the results of the treatment?

Horseshoe was last chemically treated with ProcellaCOR in 2019 with outstanding and lasting results.

NOTE: Chemical fact sheets for aquatic pesticides used in Wisconsin are available from the Department of Natural Resources upon request.

Alternatives to Chemical Control:	Feasible?	If No, Why Not?
1. Mechanical harvesting	<input type="radio"/> Yes <input checked="" type="radio"/> No	Not needed, infestation too small and not appropriate for EWM
2. Manual removal	<input checked="" type="radio"/> Yes <input type="radio"/> No	
3. Sediment screens/covers	<input type="radio"/> Yes <input checked="" type="radio"/> No	not an approved management action in APM Plan or WI
4. Dredging	<input type="radio"/> Yes <input checked="" type="radio"/> No	not appropriate or needed
5. Waterbody drawdown	<input type="radio"/> Yes <input checked="" type="radio"/> No	no dam, seepage lake
6. Nutrient controls in watershed	<input type="radio"/> Yes <input checked="" type="radio"/> No	Watershed in good shape except for a few properties around the lake
7. Other:	<input type="radio"/> Yes <input type="radio"/> No	

Note: If proposed treatment involves multiple properties, consider feasibility of EACH alternative for EACH property owner.

Will surface water outflow and/or overflow be controlled to prevent chemical loss?

Yes No

Is the treatment area greater than 5% of surface area?

Yes No

WPDES Permit Request

Is WPDES coverage being requested? Refer to

<http://dnr.wi.gov/topic/wastewater/aquaticpesticides.html> for more information

Yes - complete section VII with signature.

No

Already have WPDES

WPDES coverage not needed

Required Attachments and Supplemental Information

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

* indicates completion of this item is required

Note: To add additional attachments using the down arrow icon. To replace an existing file, use the 'Click here to attach file ' link. To remove additional items, select the item and press CNTRL Delete.

Riparian Owners	<input type="text" value="File Attachment"/>	2021PropertyOwnersHORLP.pdf
Public Notice	<input type="text" value="File Attachment"/>	2021HorseshoeLakeWashburnCountyPropertyOwnersContactLetter.pdf
Large Scale Worksheet	<input type="text" value="File Attachment"/>	
Site Map	<input type="text" value="File Attachment"/>	2021HorseshoeLakeWCEWMProcellaCORTreatmentProposal.pdf

Fee Calculation

Chemical Control Application

1. s. NR 107.11(1), Wis. Adm. Code, lists the conditions under which the permit fee is limited to the \$20 minimum charge.
2. s. NR 107.11(4), Wis. Adm. Code, lists the uses that are exempt from permit requirements.
3. s. NR 107.04(2), Wis. Adm. Code, provides for a refund of acreage fees if the permit is denied or if no treatment occurs.

If Proposed treatment is over 0.25, calculate acreage fee: (round up to nearest whole acre, to maximum of 50 acres) acres X \$25 per acre = \$	1.16
If proposed treatment is less than 0.25 acre, acreage fee is \$0	\$50.00
Basic Permit Fee (non-refundable)	\$20.00
Total Fee	\$70

Payment Information

Invoice Number: WP-00028550

Payment Confirmation Number: WS2WT3006418185

Amount Paid: \$70

Sign and Submit

Applicant Responsibilities and Certification

1. The applicant has prepared a detailed map which shows the length, width and average depth of each area proposed for the control of rooted vegetation and the surface area in acres or square feet for each proposed algae treatment.
2. The applicant understands that the Department of Natural Resources may require supervision of any aquatic plant management project involving chemicals. Under s.NR 107.07 Wis. Adm. Code, supervision may include inspection of the proposed treatment area, chemicals and application equipment before, during or after treatment. The applicant is required to notify the regional office 4 working days in advance of each anticipated treatment with the date, time, location and size of treatment unless the Department waives this requirement. Do you request the Department to waive the advance notification requirement?
 Yes No
3. The applicant agrees to comply with all terms or conditions of this permit, if issued, as well as all provisions of Chapter NR 107, Wis. Adm. Code. The required application fee is attached.
4. The applicant will provide a copy of the current application to any affected property owners' association inland Lake District and, in the case of chemical applications for rooted aquatic plants, to all owners of property riparian or adjacent to the treatment area. The applicant has also provided a copy of the current chemical fact sheet for the chemicals proposed for use to any affected property owner's association or inland Lake District.
5. Conditions related to invasive species movement. The applicant and operator agree to the following methods required under s.NR 109.05(2), Wis. Adm. Code for controlling, transporting and disposing of aquatic plants and animals, and moving water:
 - Aquatic plants and animals shall be removed and water drained from all equipment as required by s.30.07, Wis. Stats., and ss. NR 19.055 and 40.07, Wis. Adm. Code.
 - Operator shall comply with the most recent Department-approved 'Boat, Gear, and Equipment Decontamination and Disinfection Protocol', Manual Code #9183.1, available at <http://dnr.wi.gov/topic/invasives/disinfection.html>

All portions of this permit, map and accompanying cover letter must be in possession of the chemical applicator at the time of treatment. During treatment all provisions of Chapter NR 107 107.07 and NR 107.08, Wis. Adm. Code, must be complied with, as well as the specific conditions contained in the permit cover letter.

I hereby certify that that the above information is true and correct and that copies of the application shall be provided to all affected property owners promptly and that the conditions of the permit will be adhered to. All portions of this permit, map and accompanying cover letter must be in possession of the applicant or their agent at time of plant removal. During plant removal activities, all provisions of applicable Wisconsin Administrative Rules must be complied with, as well as the specific conditions contained in the permit cover letter.

Steps to Complete the signature process

IMPORTANT: All email correspondence will be sent to the address associated with your WAMS ID).

1. Read and Accept the Responsibilities and Certification
2. Press the Initiate Signature Process button
3. Open the confirmation email for a one time confirmation code and instructions to complete the signature process.

You will receive a final acknowledgement email upon completing these steps .

Check if you are signing as Agent for Applicant.

i:0#f|wamsmembership|blumedl signed on 2021-0

I hereby certify that the above information is true and correct and that copies of this submittal have been provided to the appropriate parties named in the contact section and that the conditions of the permit and pesticide use will be adhered to.

2021 Horseshoe Lake, Washburn County Preliminary EWM ProcellaCOR Treatment Plan 2-4-2021 (LEAPS)								
Treatment Location	Acre	Mean Depth	Acre-feet	PDU Rate	PDU / Site	Fl OZ/Site	Parts-per-billion	Part-per-million
NWBay-21	0.89	9	8.01	5	40.1	127.0	9.6	0.0096
SWNook	0.27	4	1.08	3	3.2	10.3	5.8	0.0058
Totals	1.16		9.09		43.3	137.2		



In 2019, we used 51.8 PDU's of ProcellaCOR

Dave Blumer, LEAPS 3/30/2021

Northern Aquatic Services

1061 240th street Dresser WI 54009 715-495-5252 cell 715-755-3507 home/office

Professional **Aquatic Weed Control Services**

Dear Lake Shore Property Owner,

3/31/2021

The intent of this letter is to notify you that the Horseshoe Lake Property Association (HLPa) has hired Northern Aquatic Services, an herbicide application company, to treat Eurasian watermilfoil (EWM), a non-native, invasive aquatic plant species in Horseshoe Lake. The Wisconsin DNR has issued a permit to treat approximately 1.16 acres. The Trade Name herbicide to be used to treat EWM is ProcellaCOR. This herbicide has been labeled for aquatic use by the Environmental Protection Agency. *Any water usage restrictions for the treated area will be posted on yellow signs in the treated areas.*

You may view a copy of the application at the following websites:

<https://www.horseshoelake.org/home.asp> or <https://leapsllc.com/index.php/horseshoe-lake-property-association/>

Questions concerning the treatment can be directed to Ed Wink, Secretary/Treasurer of the HLPa at 612-239-8722, Northern Aquatic Services at 715-495-5252, Tyler Mesalk of the Wisconsin DNR at 715- 416-5066, or Dave Blumer from Lake Education and Planning Services at 715-642-0635. A chemical fact sheets and herbicide label is available upon request. Management actions would be completed between ice out and June 30, 2021.

Sincerely,

Dale Dressel
Northern Aquatic Services



Figure 1: 2021 EWM management areas in Horseshoe Lake

Horseshoe Lake, Washburn Co.

Steven Loughran Trust
100 3rd Ave S. Unit 2205
Minneapolis, MN 55401

Theodore Hainlin

17230 19th Ave N.
Minneapolis, MN 55447-2702

LN.
W7577 Horseshoe Bend ~~Ln.~~
Minong, WI 54859

Laurie Johnson

N12680 Horseshoe Bend Rd.
Minong, WI 54859-8023

Walter Michael Flynn

12628 Inglewood Ave S.
Savage, MN 55378-1575

N12660 Horseshoe Bend Rd
Minong, WI

Jan Malcolm

3819 Zenith Ave S.
Minneapolis, MN 55410-1168

N12644 Horseshoe Bend Rd
Minong, WI

Bernardus Kleynhans

6424 Parnell Ave
Edina, MN 55435-1513

N.12610 Horseshoe Bend Rd
Minong, WI

Edward Wink Trust

11895 Dunkirk Cir NE
Blaine, MN 55449-7500

N12590 Horseshoe Bend Rd
Minong, WI

Richard Johnson
648 Jill St
Duluth, MN 55803-2109

N12572 Horseshoe Bend Rd.
Minong, WI

Donald Fngle
1965 Timberwolf Trl N
Eagan, MN 55122-2229

N12439 Massett Dr.
Minong, WI

David Olson
N12407 Massett Dr.
Minong, WI 54859-9277

Paul Pugsley
1578 61st Ave NE
Fridley, MN 55432-5803

N12408 Horseshoe Bend Rd
Minong, WI

Northern Aquatic Services

1061 240th street Dresser WI 54009 715-495-5252 cell 715-755-3507 home/office

Professional Aquatic Weed Control Services

Dear Ed Wink & Horseshoe Lake Property Owners,

4/20/2021

Thank you for choosing Northern Aquatic Services to assist you in your battle with Eurasian Watermilfoil. I look forward to working with you, Endangered Resources, and the WDNR in a combined effort to reduce the population of EWM growing in the Horseshoe Lake.

Costs

Treatment of 1.16 acres comprising 9.09 acre feet of water dosed to 3 & 5 pdu using 43.3 pdu's of ProcellaCOR @ \$70 per = \$3031

Trip fee \$300

In accordance with Wisconsin statute NR 107.04(4) the Horseshoe Lake Association agrees to notify those property owners in or adjacent to the treatment area (within 150') prior to treatment. Often times this is included in a newsletter if you publish one. Upon completion, Northern Aquatic Services will invoice the Horseshoe Lake Association in care of Ed Wink. All monies are due within 21 day of invoicing, after which interest will be charged at 1% per month. All agreements are contingent upon receiving the proper permit from the WDNR. I agree to the costs and terms of this agreement:

(NAME) Edward Wink (DATE) 04/23/21

Yours Truly,

Dale Dressel
Northern Aquatic Services

When you choose Northern Aquatic Services you are hiring an expert in the aquatics field with whom you will solely deal. I have a bachelor's degree in ecology from the U-W Madison. I worked as a water quality scientist for the U.S. Army Corps of Engineers for 10 years and then managed a branch office for an aquatic plant management company in Brainerd MN for 3 years. **I do all of my own applications.** I run an honest business and will stand behind my work and do everything I can to satisfy my customers. Thank you for your business.