



Lake & Pond Resource LLC

“Providing Professional Resources for Management of Your Lake or Pond”

November 3, 2022

White River Flowage Lake Management District
Lynn Bockenbauer

Re: 2022 Aquatic Plant Survey and Report, White River Flowage, Waushara County, Wisconsin

Dear Ms. Bockenbauer and Board members:

In response to your request for aquatic plant management and surveying, Wisconsin Lake & Pond Resource, LLC (WLPR) visited the site in 2022. The purpose of the visits was to control stands of Eurasian water-milfoil (EWM) then follow up to document control results and remaining populations of aquatic invasive species (AIS). The final visit also assessed the condition of the existing plant community to potential need for future management.

Background Information

White River Flowage is a man-made 125-acre impoundment in the Town of Dakota, Waushara County. Three aquatic invasive species (AIS) are confirmed in the Lake: Eurasian water-milfoil (EWM), curly-leaf pondweed (CLP), and flowering rush. Eurasian water-milfoil has grown to nuisance levels and required periodic past management. Control of EWM has focused on the use of aquatic herbicides and prior to 2022 was most recently in 2019 to 7.0 acres. The WRFLMD is an active lake district that has been managing non-native, invasive aquatic plants on the lake, specifically Eurasian water-milfoil.

The aquatic plant community of the White River Flowage has been healthy, though periodically dense. However, introduction of aquatic invasive species caused an expanding problem with excessive aquatic plant growth. Eurasian water-milfoil has caused the most significant problem within the Lake. Past management has ranged from small-scale, spot treatments to moderately large (>5.0 acres) areas for EWM control. An aquatic plant survey was completed in 2021 that identified up to 9.34 acres of EWM growth (Figure 1.1).

From the 2021 survey, select areas of EWM had grown to nuisance levels and required management in 2022. Only the densest areas of the EWM were recommended for control, resulting in 4.43 acres of high priority locations (Figure 1.2).

The most recent AIS management was completed May 26, 2022 to 4.43 acres as described above. A copy of the 2022 WDNR approved permit and treatment record are included in Attachment A. To gauge current conditions and plan for 2023 management, a follow-up aquatic plant survey was completed on August 30, 2022 by Wisconsin Lake & Pond Resource.



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Professional Pond Management Products and Services
 Aquatic Herbicide and Algaecide Applications
 Lake Management Planning and Services
 Pond Design and Development

2022 Aquatic Plant Survey

WLPR conducted the 2022 survey using a meander method throughout the entire photic zone of the lake with rake throws and visual observations to verify the presence of AIS. All locations of AIS, primarily EWM, were recorded on a GPS. Observations of native aquatic plant species were recorded to create a list of those present within the lake. Late summer of 2022 was typical for the growing period. Water temperatures at 69-degrees during the survey. Water levels were noted to be normal. Results of the mapping survey are found on Figure 1.3.

Composition of the aquatic plant community remained steady and of good diversity for similar lakes within the same region. Overall, 19 different native aquatic plant species were noted along with two AIS; Eurasian water-milfoil and curly-leaf pondweed (Table 1). Similar to past surveys, dense vegetation was noted in various portions of the lake. It was primarily water stargrass, coontail, and common waterweed with many floating-leaf plants present on the edges. Two large beds of wild rice were again noted in the northern portion of the flowage. Similar to past surveys, there was good diversity per location with rooted vegetation growing to a depth of 11-14 feet.

| Aquatic Invasive Species | | Submersed Species | |
|--------------------------|-----|------------------------|---|
| Curly-leaf pondweed | X | Filamentous algae | X |
| Eurasian water-milfoil | X | Water stargrass | X |
| Free-Floating Species | | Coontail | X |
| Common watermeal | X | Common waterweed | X |
| Small duckweed | X | Sago pondweed | X |
| Emergent Species | | Floating-leaf pondweed | X |
| Wild rice | X | Long-leaf pondweed | X |
| Floating-Leaf Species | | Flat-stem pondweed | X |
| Spatterdock | X | Common bladderwort | X |
| White water lily | X | Northern water-milfoil | X |
| --- | --- | Illinois pondweed | X |
| --- | --- | Muskgrass | X |
| --- | --- | Wild celery | X |
| --- | --- | Nitella | X |
| Total | | 21 | |



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The 2022 survey identified EWM growing at various densities and distribution in the survey locations. The following densities were used to describe the EWM populations:

1. **Spots** – small locations of individual plants or clumps that were not large enough to map around their perimeter.
2. **Scattered** – locations of EWM that had plants close enough to map as an area, but were still widely scattered. EWM is merely present and not a large component of the biomass.
3. **Low** – EWM identified in distinct beds. While individual plants or clumps may reach the surface, most are lower growing or not as dense. Often mixed with other vegetation.
4. **Moderate** – EWM occupies over half the water column with many plants or clumps at or just below the surface. Few other plant species found.
5. **High** – locations of EWM that were at or near the surface and occupied much of the water column. EWM may be the only plant found growing in these locations.

Overall, 4.36 acres of E/HWM were identified during the August, 2022 survey (Table 2, Figure 1.2). Populations of Eurasian water-milfoil undoubtedly exist outside the areas identified in 2022. A breakdown of the E/HWM present by density across the White River Flowage is as follows:

| Density | Acres |
|--------------|-------------|
| Scattered | 0.93 |
| Low | 0.84 |
| TOTAL | 1.77 |

Control of EWM within the treatment area was excellent. Only a few individual stems of EWM at a scattered density were noted in the upstream, northern portion of the treatment area. Vegetation within the EWM control area was a healthy mix of native species, primarily consisting of flat-stem pondweed, Illinois pondweed, coontail, water stargrass, and common waterweed. A bed of low density EWM was immediately adjacent to the northern portion of the target area was noted and mapped.

Remaining areas of E/HWM present was largely of individual spots/clumps or scattered density. When found, EWM was typically mixed in with a variety of native species. In the northern portion of where EWM was found, common waterweed and water stargrass were prevalent. As we moved downstream the species changed over to a mix that included more native pondweeds, such as flat-stem and Illinois pondweed. In a majority of the lake, EWM was noted as a single plant or clump and merely present. Meaning, that though it was found growing it was mixed in with native species and not dense enough for active control.

An aquatic plant community is dynamic and changes year to year based on growing conditions and many other factors. Some species identified in 2022 were not directly sampled in the past and vice versa, but this should not be a cause for concern.



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NEXT STEPS

After continued successful EWM management, this invasive species has been reduced from historical levels and is now found at low population and density. Past surveys and management for the lake have shown that EWM can occupy large colonies and require management moderately scaled control.

Current DNR recommendations for control of AIS include the use of an integrated pest management approach, or IPM. The use of IPM includes changing methods of control, including but not limited to: varying herbicide active ingredients, mechanical harvesting, hand or suction harvesting, and no-action. The spread of EWM in the Lake recorded in 2022 is found primarily in the mid-section and scattered at very low density in other locations. Continued management for EWM has created a lessening population. Many locations are too small and spread out to be feasibly controlled. Though of high quality and diversity, native plant species still grow very dense within portions of the Lake and often cause navigational nuisance requiring management. Nuisance control is managed by an annual mechanical harvesting program.

It is our recommendation to continue to conduct mechanical harvesting for nuisance, navigational relief while monitoring aquatic plant populations in 2023. Though EWM is still present, its current density is not enough to warrant active control. It is important to continue to gauge the entire lake's aquatic plant community through periodic point-intercept plant surveys. The last whole-lake survey was completed in 2018 and it is generally recommended to complete such a survey every 5 years. A recommended timeline for 2023 management is as follows:

- **May – August, 2023:** Continue mechanical harvesting operation for navigational relief
- **July/August, 2023:** Whole-lake point intercept survey and EWM mapping and assessment
- **November/December 2023:** Update and submit management report and recommendations
 - EWM mapping
 - Lake management planning
 - Aquatic plant community update

If you have any questions, require any additional information, or would like a formal proposal on any of the above management options please contact us directly as follows:

A handwritten signature in black ink, appearing to read "Jim Scharl".

Jim Scharl: (920) 872-2032 or jim@wisconsinlpr.com

Respectfully,



Lake & Pond Resource LLC

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Attachment A: 2022 WDNR Permit & Treatment Record



| | |
|---|---------------------------------------|
| 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 |
|---|---------------------------------------|

Permit Number: NE-2022-70-13938
Permit Expiration Date: October 1, 2022
Waterbody Name: White River Flowage

Waterbody # (WBIC): 151500
Fee Received: 145
Waterbody Address: W7529 White River Trail

Applicant Name: White River Flowage Lake
Management District
W7529 White River Trail
Wautoma, WI 54982
Email:
Phone:

Applicator Name: Wisconsin Lake & Pond Resource, LLC
N7828 Town Hall Rd
Eldorado, WI 54932
Email: jim@wisconsinlpr.com
Phone: 920-872-2032

Advanced Notification of Treatment is required

The Department has received and reviewed your application to chemically treat up to 4.43 acres of Eurasian water milfoil in White River Flowage in Waushara 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 Christopher Kolasinski of the Department of Natural Resources at 920-252-5053 or Christopher.kolasinski@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.

If you have any questions or concerns, I can be reached at 920-252-5053 or by email at Christopher.Kolasinski@wisconsin.gov

State of Wisconsin Department of Natural Resources for the Secretary

| | | |
|---------------------------|-------------|-------------|
| By: Kolasinski, Chris | 5/12/2022 | 5/12/2022 |
| 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.

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.

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|jscharl signed on 2022-04-26T10:11:50

Site or Project Name:

White River Flowage - 2022

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

Enter previous years permit information below to import Contact Information (Optional)

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: White River Flowage Lake Management District

Last Name:

First Name:

Mailing Address: W7529 White River Trail

City: Wautoma

State: WI

Zip Code: 54982

Email:

Phone Number:

(xxx-xxx-xxxx)

Alternative Phone Number:

(xxx-xxx-xxxx)

Waterbody Address

Last Name: LL

First Name:

Street Address: W7529 White River Trail

City: Wautoma

State: WI

Zip Code: 54982

Email:

Phone Number:

(xxx-xxx-xxxx)

Alternative Phone Number:

(xxx-xxx-xxxx)

Applicator

Name of Applicator Firm: Wisconsin Lake & Pond Resource, LLC

Applicator Certification #: 041446, 073906, 080532, 092501, 077803, 105360, 11117...

Business Location License #: 93-015182-012226

Restricted Use Pesticide #:

Address: N7828 Town Hall Rd

City: Eldorado

State: WI

Zip: 54932

Email: jim@wisconsinlpr.com

Phone Number: 920-872-2032
(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.

NOTE: Phone and email address are optional fields. This information will be publicly viewable if provided on this application.

Uploaded riparian owners to attachment tab

| Name | Address | Phone | Email Address |
|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

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:

| Site Name (Optional) | Treatment Length | Treatment Width | Estimated Acreage | Average Depth | Calculated Volume |
|----------------------|---|------------------------------|--------------------------------------|--|--|
| <input type="text"/> | <input type="text" value="0"/> ft. x <input type="text" value="0"/> ft. | $\div 43,560 \text{ ft}^2 =$ | <input type="text" value="4.43"/> ac | <input type="text" value="8"/> ft = | <input type="text" value="35.44"/> ac-ft |
| | | | Estimated Acreage Grand Total | Calculated Volume Grand Total | |
| | | | <input type="text" value="4.43"/> ac | <input type="text" value="35.44"/> 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 checked="" 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)

- | | | | |
|---|-------------------------------------|----------------------------------|------------------------------------|
| <input type="checkbox"/> Agristar 2,4-D Amine | <input type="checkbox"/> Clipper | <input type="checkbox"/> K-Tea | <input type="checkbox"/> SCI-62 |
| <input type="checkbox"/> Algimycin PWF | <input type="checkbox"/> Clipper SC | <input type="checkbox"/> Littora | <input type="checkbox"/> Sculpin G |

- | | | | |
|--|--|--|---|
| <input type="checkbox"/> Alligare 2,4-D | <input type="checkbox"/> Current | <input type="checkbox"/> Milestone | <input type="checkbox"/> SeClear |
| <input type="checkbox"/> Alligare Argos | <input type="checkbox"/> Cutrine-Plus | <input type="checkbox"/> Nautique | <input type="checkbox"/> SeClear G |
| <input type="checkbox"/> Alligare Diquat | <input type="checkbox"/> Cutrine-Plus Granular | <input type="checkbox"/> Navigate | <input type="checkbox"/> Shoreklear-Plus |
| <input type="checkbox"/> Alligare Ecomazapyr | <input type="checkbox"/> Cutrine-Ultra | <input type="checkbox"/> Navitrol | <input type="checkbox"/> Shredder Amine |
| <input type="checkbox"/> Alligare Glyphosate 5.4 | <input type="checkbox"/> DMA 4 IVM | <input type="checkbox"/> Navitrol DPF | <input type="checkbox"/> Sonar AS |
| <input type="checkbox"/> Aqua Neat | <input type="checkbox"/> Earthtec | <input type="checkbox"/> Phycomycin SCP | <input type="checkbox"/> Sonar Genesis |
| <input type="checkbox"/> Aqua Star | <input type="checkbox"/> Element 3A | <input type="checkbox"/> Polaris | <input type="checkbox"/> Sonar H4C |
| <input type="checkbox"/> AquaPro | <input type="checkbox"/> Flumioxazin 51% WDG | <input type="checkbox"/> Polaris AC | <input type="checkbox"/> Sonar PR |
| <input type="checkbox"/> Aquashade | <input type="checkbox"/> Formula F-30 | <input type="checkbox"/> Pond-Klear | <input type="checkbox"/> Sonar Q |
| <input type="checkbox"/> Aquashadow | <input type="checkbox"/> Garlon 3A | <input checked="" type="checkbox"/> ProcellaCOR EC | <input type="checkbox"/> Sonar RTU |
| <input type="checkbox"/> Aquastrike | <input type="checkbox"/> Green Clean | <input type="checkbox"/> Refuge | <input type="checkbox"/> Sonar SRP |
| <input type="checkbox"/> Aquathol K | <input type="checkbox"/> Habitat | <input type="checkbox"/> Renovate 3 | <input type="checkbox"/> SonarOne |
| <input type="checkbox"/> Aquathol Super K | <input type="checkbox"/> Harpoon | <input type="checkbox"/> Renovate LZR | <input type="checkbox"/> Stingray |
| <input type="checkbox"/> Avast! SC | <input type="checkbox"/> Harvester | <input type="checkbox"/> Renovate LZR Max | <input type="checkbox"/> Symmetry NXG |
| <input type="checkbox"/> Captain | <input type="checkbox"/> Havoc Amine | <input type="checkbox"/> Renovate Max G | <input type="checkbox"/> Touchdown Pro |
| <input type="checkbox"/> Captain XTR | <input type="checkbox"/> Hydrothol 191 | <input type="checkbox"/> Renovate OTF | <input type="checkbox"/> Tribune |
| <input type="checkbox"/> Chinook | <input type="checkbox"/> Hydrothol Granular | <input type="checkbox"/> Reward | <input type="checkbox"/> Trycera |
| <input type="checkbox"/> Clearcast | <input type="checkbox"/> Komeen | <input type="checkbox"/> Rodeo | <input type="checkbox"/> Weedar 64 |
| <input type="checkbox"/> Clearigate | <input type="checkbox"/> Komeen Crystal | <input type="checkbox"/> Roundup Custom | <input type="checkbox"/> Weedestroy AM-40 |

Other Proposed Chemical(s):

Have the proposed chemicals been permitted in a prior year on the proposed site?
 All Some None

What were the results of the treatment?

Method of Application:

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 | spreads AIS |
| 2. Manual removal | <input type="radio"/> Yes <input checked="" type="radio"/> No | too large of areas |
| 3. Sediment screens/covers | <input type="radio"/> Yes <input checked="" type="radio"/> No | non-target damage |
| 4. Dredging | <input type="radio"/> Yes <input checked="" type="radio"/> No | non-target damage |
| 5. Waterbody drawdown | <input type="radio"/> Yes <input checked="" type="radio"/> No | not a control option for immediate concerns |
| 6. Nutrient controls in watershed | <input type="radio"/> Yes <input checked="" type="radio"/> No | not a control option for immediate concerns |
| 7. Other: | <input type="radio"/> Yes <input type="radio"/> No | <input type="text"/> |

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"/> | WRF addresses 2022.pdf |
| Public Notice | <input type="text" value="File Attachment"/> | |
| Large Scale Worksheet | <input type="text" value="File Attachment"/> | |
| Site Map | <input type="text" value="File Attachment"/> | WRF EWM map 2022.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 = \$ | 4.43 |
| If proposed treatment is less than 0.25 acre, acreage fee is \$0 | \$125.00 |
| Basic Permit Fee (non-refundable) | \$20.00 |
| Total Fee | \$145 |

Payment Information

Invoice Number: WP-00035138

Payment Confirmation Number: WS2WT3008366270

Amount Paid: \$145

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|jscharl signed on 2022-04-

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

| Name | Address | City | St | Zip |
|--|------------------------|-------------|-----------|------------|
| GIENCKE REVOCABLE LIVING TRUST | S75W19797 RIDGE RD | MUSKEGO | WI | 53150 |
| HERITAGE FARMS INC | N984 19TH RD | WAUTOMA | WI | 54982 |
| JEFFREY TEAL | N11497 SHORT RD | TOMAHAWK | WI | 54487 |
| JEREMY LANE | W7401 WHITE RIVER LN | WAUTOMA | WI | 54982-8085 |
| JON P & JANE ANN WILCOX REVOCABLE TRUST | N984 19TH RD | WAUTOMA | WI | 54982 |
| KENNETH R & PHYLLIS J AHLSTEDT REV TRUST | W7485 S OAK DR | WAUTOMA | WI | 54982 |
| MARK J HARTWIG | W7405 WHITE RIVER TRL | WAUTOMA | WI | 54982 |
| PAUL R GETCHEL | 4466 HARBOR VILLAGE DR | OMRO | WI | 54963 |
| ROSS A & DONNA M MILLER | 8109 TALL TIMBER DR | GAINSVILLE | VA | 20155 |
| SLATON PROPERTIES LLC | 1164 KORO RD | RIPON | WI | 54971 |

Aquatic Plant Management Herbicide Treatment Record

Form 3200-111 (R4/20)

Page 1 of 2

Notice: Completion of this form is a condition of the permit and provides records required by WDNR (NR 107) and DATCP (ATCP 29.21 and 29.22). The Department may not issue you future permits unless you complete and submit this form. 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.].

Submit this form: (1) immediately if any unusual circumstances occurred during treatment
(2) as soon after treatment as possible, no later than 30 days
(3) by October 1 if no treatment occurred

Completion of this form along with the permit satisfies the requirements of WDNR (NR 107) and DATCP (ATCP 29.21 and 29.22).

| | | | |
|---|---|--------------------|--------------------------|
| Permit Number NE-2022-70-13938 | Water body Name (including ponds, e.g., Smith Pond) White River Flowage | | |
| County Waushara | Permit Holder Name (Customer Name) White River Flowage Lake Management District | | |
| Permit Holder Address W7529 White River Trail | City Wautoma | State WI | Zip Code 54982 |

Treatment Information

| | | | | | | |
|--|--|---|-------------------------|---|-------------------------------|---|
| Treatment Date(mm/dd/yyyy) 5/26/2022 | Starting Time (24:00 hour) 08:45 | Ending Time (24:00 hour) 10:30 | Water Temp 55 | <input type="checkbox"/> C <input checked="" type="checkbox"/> F | Ambient Air Temp 55 | <input type="checkbox"/> C <input checked="" type="checkbox"/> F |
| Wind Speed (mph) 1-3 | Wind Direction West | Expected Duration of Chemical Residuals 1 day | | | | |

Adverse Conditions Noted (i.e., dead fish, spawning fish, algae bloom, etc.)

If adverse conditions noted, indicate corrective actions taken

Comments

| | |
|---|---|
| Onsite Supervision by DATCP and/or DNR Staff <input type="radio"/> Yes <input checked="" type="radio"/> No | If Yes, Supervisor Name : <input type="text"/> |
|---|---|

Mixing and Loading Site Location (if other than business site or from prepackaged retail container or applied with equipment with a total capacity of not more than 5 gallons liquid or 50 pounds dry)
white river flowage

Water User Restriction
 No Restrictions Consuming Fish Pet/Livestock Water Irrigation (Crop)
 Swimming Drinking Water Irrigation Other:

Herbicide Treatment and Water Use Restrictions Signs Posted In Accordance With NR 107 and ATCP 29.22?

Applicator shall provide each customer with a free copy of each pesticide label used (if requested)

Applicator Information

| | | |
|---|--|--------------------------|
| Individual or Business Name Wisconsin Lake & Pond Resource, LLC | Telephone xxx-xxx-xxxx 920-872-2032 x <input type="text"/> | |
| Street Address N7828 Town Hall Rd | | |
| City Eldorado | State WI | ZIP Code 54932 |

| Individuals Making or Supervising Pesticide Application | Last Name | First | Certification # | License # |
|---|---------------|--------------|-----------------|---------------|
| | scharl | james | 77803 | 224355 |

walkowiak

peter

112869

505676

Name of Person Completing Form

james scharl

Date: 5/26/2022

Aquatic Plant Management Herbicide Treatment Record

Form 3200-111 (R4/20)

Page 2 of 2

| Site No | Property Name | Address / Fire No | Treated acreage | Permitted Acreage | Sensitive Area? | Latitude | Longitude |
|---------|---------------|-------------------|-----------------|-------------------|--------------------------|----------|-----------|
| E... | n/a | n/a | 4.43 | 4.43 | <input type="checkbox"/> | | |

| Herbicide Name | EPA Reg. No. | Amount Applied | Units | Application Concentration Rate (mg/l = ppm) |
|----------------|--------------|----------------|-------|---|
| ProcellaCOR EC | 67690-80 | 133 | PDU | 0.007 PPM |

Other (not listed above) Other:

| TS | SP | Site(s) | TS | SP | Site(s) | TS | SP | Site(s) |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|------------------------|--------------------------|--------------------------|---------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Cattail | <input type="checkbox"/> | <input type="checkbox"/> | Flat-Stem Pondweed | <input type="checkbox"/> | <input type="checkbox"/> | Richardson Pondweed |
| <input type="checkbox"/> | <input type="checkbox"/> | Chara | <input type="checkbox"/> | <input type="checkbox"/> | Floating-Leaf Pondweed | <input type="checkbox"/> | <input type="checkbox"/> | Robbins Pondweed |
| <input type="checkbox"/> | <input type="checkbox"/> | Coontail | <input type="checkbox"/> | <input type="checkbox"/> | Illinois Pondweed | <input type="checkbox"/> | <input type="checkbox"/> | Sago Pondweed |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Curly-Leaf Pondweed | <input type="checkbox"/> | <input type="checkbox"/> | Large-Leaf Pondweed | <input type="checkbox"/> | <input type="checkbox"/> | Watershield |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Duckweed | <input type="checkbox"/> | <input type="checkbox"/> | Northern Milfoil | <input type="checkbox"/> | <input type="checkbox"/> | White Water Lily |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Elodea | <input type="checkbox"/> | <input type="checkbox"/> | Phragmites | <input type="checkbox"/> | <input type="checkbox"/> | Wild Celery |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Eurasian /hybrid Milfoil | <input type="checkbox"/> | <input type="checkbox"/> | Planktonic Algae | <input type="checkbox"/> | <input type="checkbox"/> | White-Stem Pondweed |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Filamentous Algae | <input type="checkbox"/> | <input type="checkbox"/> | Purple Loosestrife | | | |

Other Plants (not listed above)

| TP | SP | Name | Site(s) |
|--------------------------|--------------------------|------|---------|
| <input type="checkbox"/> | <input type="checkbox"/> | | |

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.

Site Map

File Attachment

Treatment Plan

File Attachment

Fee Calculation

Chemical Treatment Record

No additional payment required for submitting treatment records.

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 = \$ | 0.00 |
| If proposed treatment is less than 0.25 acre, acreage fee is \$0 | \$0.00 |
| Basic Permit Fee (non-refundable) | \$20.00 |
| Total Fee | \$20 |

Sign and Submit

Status

You can not submit your form until you have completed all areas of the treatment record.

Please complete the following missing items.

Treatment Activity: **Complete**

Attachments and Supplemental Information: **Optional**

Applicant Responsibilities and Certification

I certify that I have completed the Chemical Treatment Record as required by WDNR (NR107) and DATCP (ATCP 29.21 and 29.22).

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
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Check if you are signing as Agent for Applicant.

i:0#.f|wamsmembership|jscharl signed on 2022-06-

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

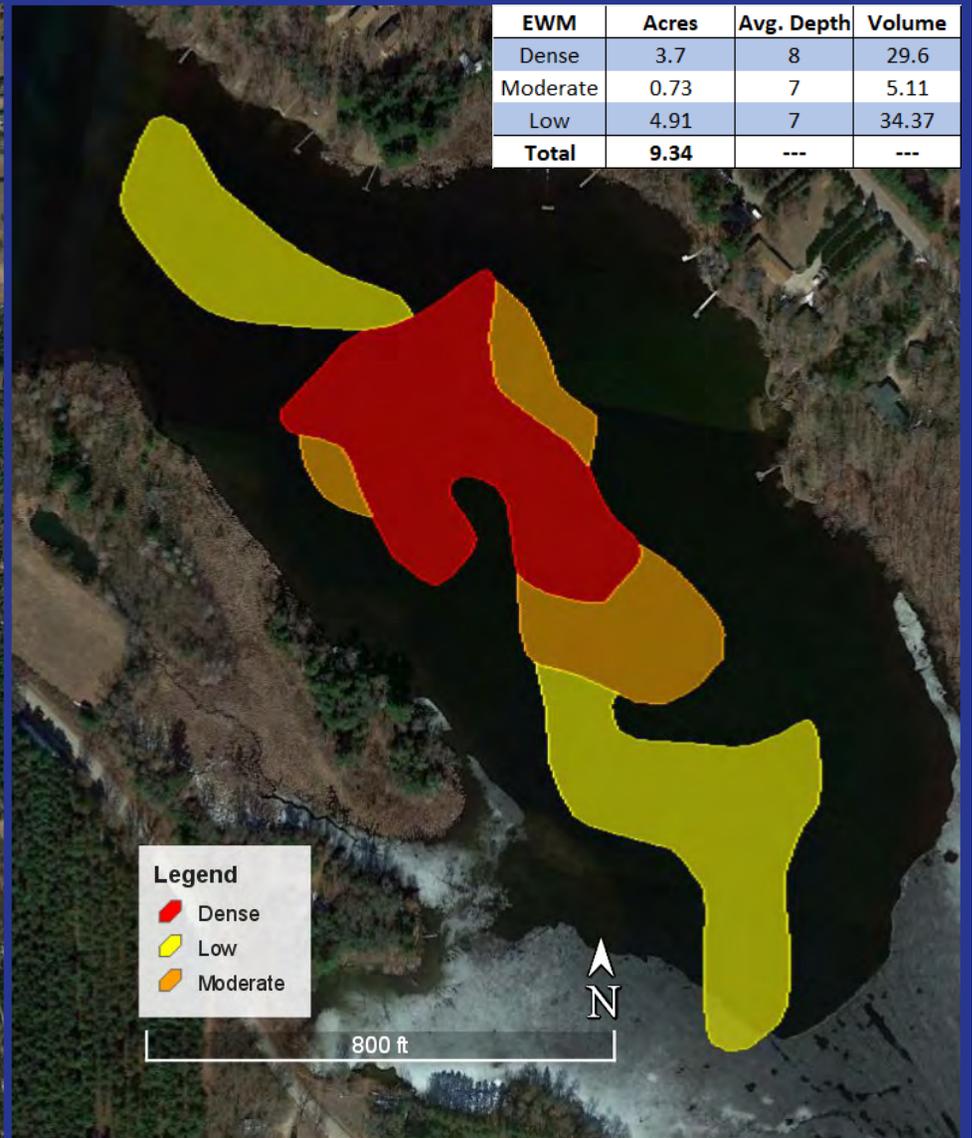
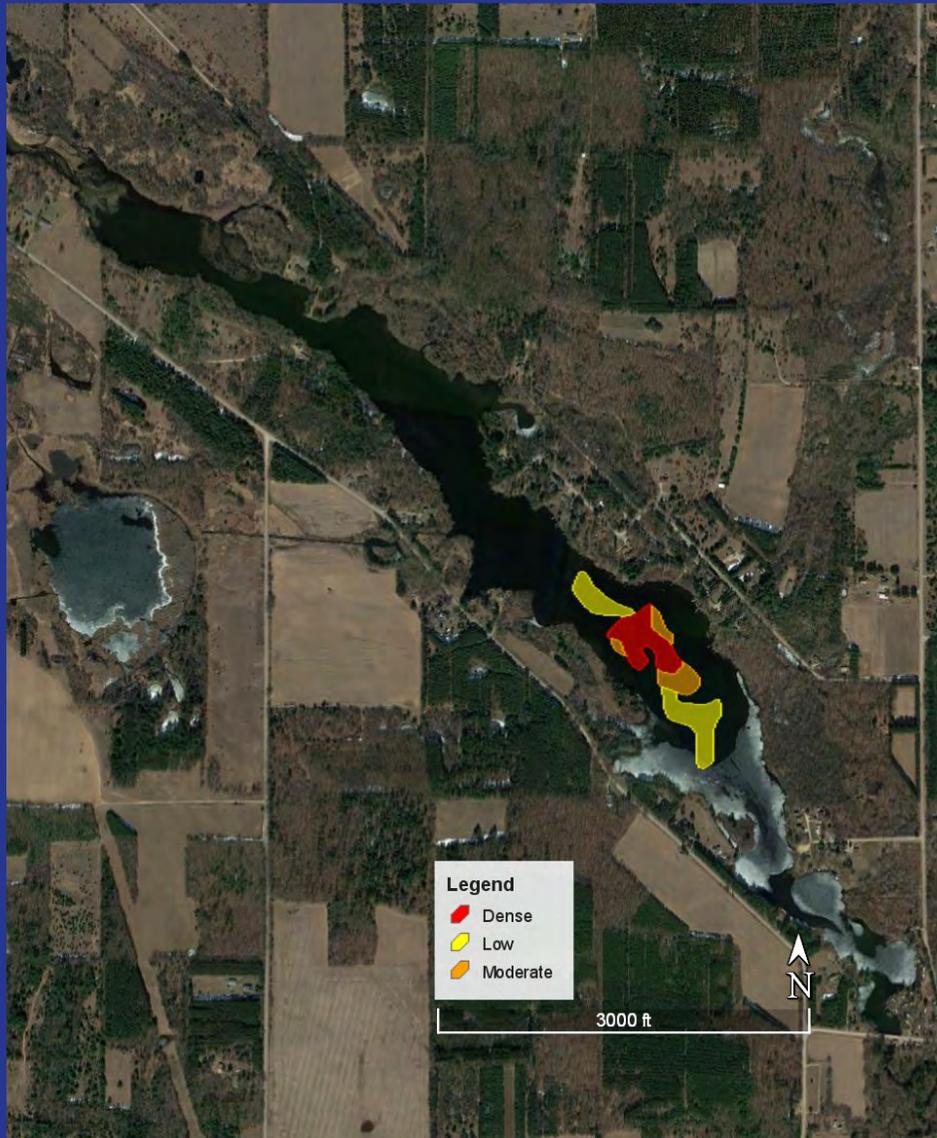


Lake & Pond Resource LLC

“Providing Professional Resources for Management of Your Lake or Pond”

Professional Pond Management Products and Services
Aquatic Herbicide and Algaecide Applications
Lake Management Planning and Services
Pond Design and Development

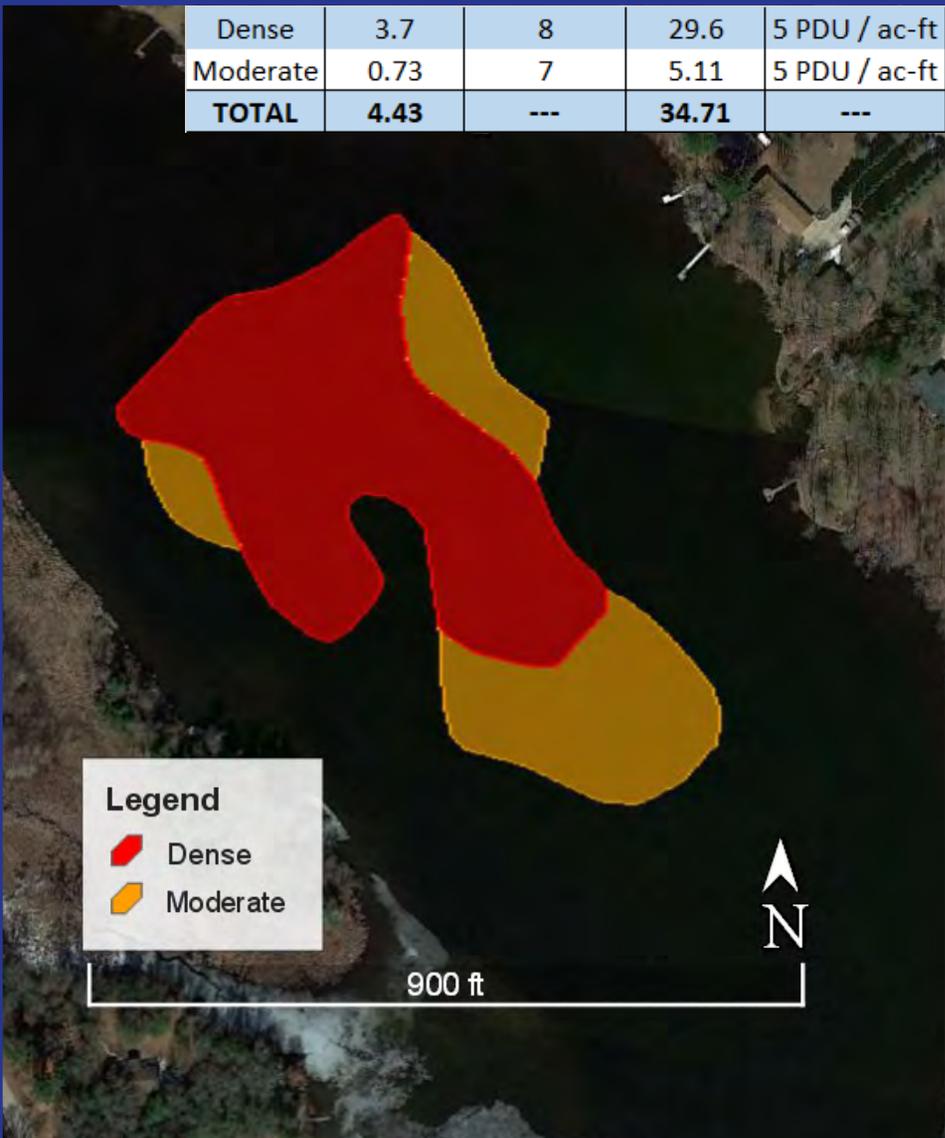
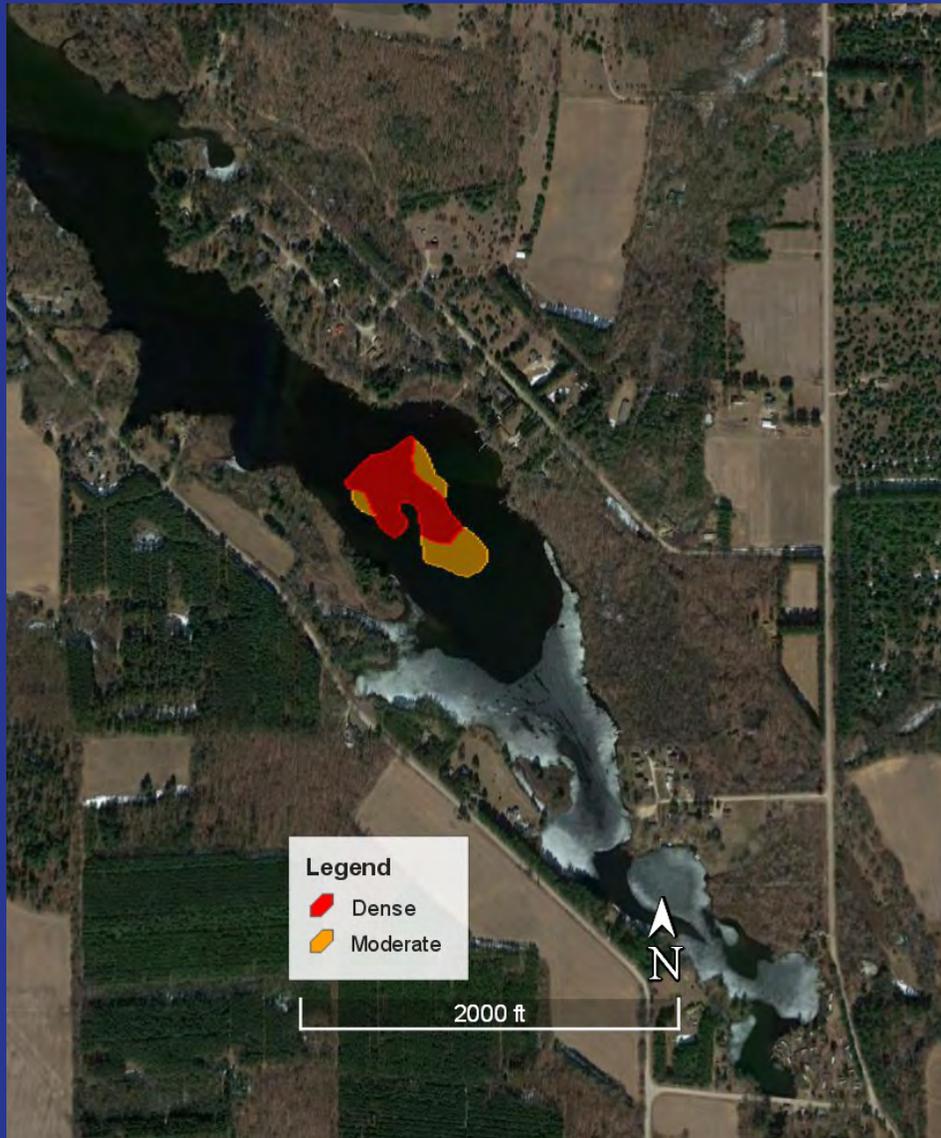
Attachment B: Figures



| EWM | Acres | Avg. Depth | Volume |
|--------------|-------------|------------|------------|
| Dense | 3.7 | 8 | 29.6 |
| Moderate | 0.73 | 7 | 5.11 |
| Low | 4.91 | 7 | 34.37 |
| Total | 9.34 | --- | --- |

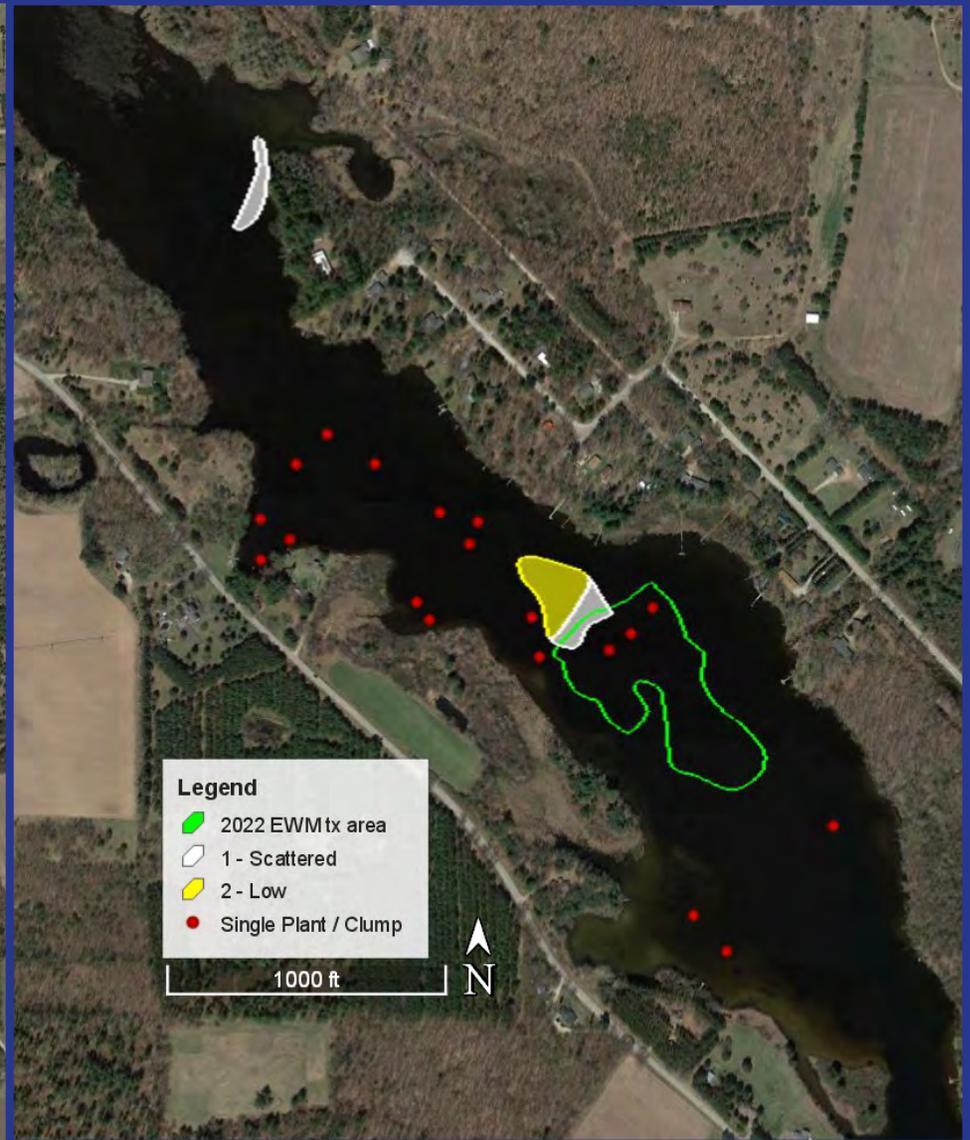
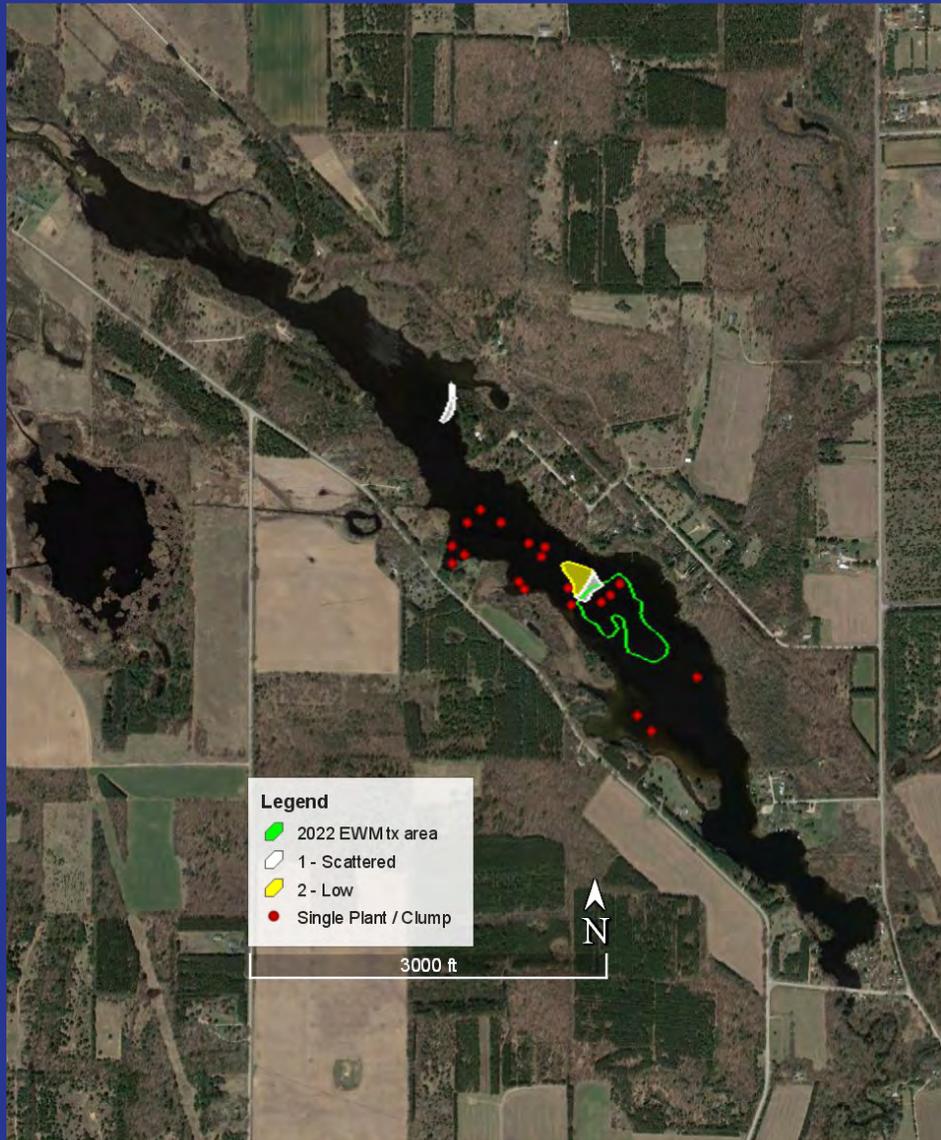
Eurasian Water-milfoil Locations

Figure 1.1
 White River Flowage
 Waushara County
 September 2, 2021



Eurasian Water-milfoil Control Locations

Figure 1.2
White River Flowage
Waushara County



Eurasian Water-milfoil Locations

Figure 1.3
 White River Flowage
 Waushara County
 August 30, 2022