

Chemical Aquatic Plant Control Application and Permit Wisconsin Pollutant Discharge Elimination System (WPDES) Pesticide Pollutant Permit Application

Form 3200-004 (R 03/13)

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.].

DNR Use Only	
ID Number	Permit Expiration Date
Waterbody #	Fee Received

Section I – Applicant Information – Name of Permit Applicant. Also indicate names and addresses of all individuals, associations, communities or town sanitary districts sponsoring treatment. Attach additional sheets if necessary.

Home Address	Name Little Muskego Lake Protection and Rehabilitation District	Lake Address	Name
	Street Address W182 S8200 Racine Ave.		Street Address
	City Muskego		City
	State WI		State
	ZIP Code 53150		ZIP Code
Phone Number (include area code) Primary: (414) 350-0012 (Tom Reck)		Email Address tomreck@msn.com	
Secondary:			

Section II – Aquatic Plant Control Location

Waterbody to be Treated (waterbody where treatment area is located) Little Muskego Lake				Lake Surface Area 506 acres		Estimated Surface Area that is 10 Feet or Less in Depth 253 acres	
County Waukesha	Section 4,5,8,9	Township 05 N	Range 20	<input checked="" type="checkbox"/> E <input checked="" type="checkbox"/> W	Name of Applicator or Firm Clean Lakes -Amy Kay		
Latitude: 42.913759.50	Longitude: -88.14307120		Street or Route 5701 Oak Park Road				
Is the waterbody a private pond? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				City Oakwood Hills		State IL	ZIP Code 60013
Does the waterbody have public access? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				County McHenry			
Adjacent Riparian Property Owner Names (attach sheets if necessary)				Phone Number (include area code) (715) 891-6798			
1. See Attachment				Email Address akay@cleanlakesmidwest.com			
2. _____				Applicator Certification Number for Category 5 Aquatic Pesticide Application Amy Kay Wensink #90532 Thomas Moorhouse #89222			
3. _____				Business Location License Number (if applicable) 93-018789-01570			
4. _____				Restricted Use Pesticide License Number (if applicable)			
5. _____							
6. _____							
7. _____							
Name of Lake Property Owners' Association Representative or Lake District Representative (if none, please indicate) Tom Reck, Commission Chair, Little Muskego Lake PRD							

Area(s) Proposed for Control: (Note details in permit cover letter for final permitted sizes of treatment areas.)

Treatment Length	Treatment Width	Estimated Acreage	Average Depth	Total Estimated Acres
A. see attached ft. X _____ ft.	÷ 43,560 ft ² = _____	_____ ft.		Total from lines A - E 0
B. <u>Map 1+2</u> ft. X _____ ft.	÷ 43,560 ft ² = _____	_____ ft.		
C. _____ ft. X _____ ft.	÷ 43,560 ft ² = _____	_____ ft.		
D. _____ ft. X _____ ft.	÷ 43,560 ft ² = _____	_____ ft.		
E. _____ ft. X _____ ft.	÷ 43,560 ft ² = _____	_____ ft.		
Grand Total				200

IF NEEDED

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. Private pond treatments are exempted from this requirement.

Is this area within or adjacent to a sensitive area designated by the Department of Natural Resources? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>Attached Map #3</u>	DNR Use: NHI Review? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe:
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Section III – Fees

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.

4. Fee calculations:

Basic Permit Fee (non-refundable)	\$	20.00
If proposed treatment is over 0.25 acre, calculate acreage fee: (round up to nearest whole acre, to maximum of 50 acres.)		
50 acres X \$25 per acre = \$		1250.00
If proposed treatment is ≤ 0.25 acre, acreage fee is \$0.		
Enter Acreage Fee (from above)		1250.00
Total Fee Enclosed	\$	1250.00

Site Map: Attach a sketch or a printed map of lake indicating area and dimensions of each individual area where plant control is desired and flow of surface water outside treatment area. Also show location of property owners riparian to and adjacent to the treatment area. Attach a separate list of owners and corresponding treatment dimensions coded to the lake map, if necessary.

Section IV – Reasons for Aquatic Plant Control

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:

- Reduce nuisance algae accumulation
- Maintain navigational channel for common use
- Maintain private access for boating
- Maintain private access for fishing
- Improve swimming
- Control of purple loosestrife
- Control of invasive exotics
- Other: _____

Nuisance Caused By:

- Algae
- Emergent water plants (majority of leaves and stems growing above water surface, e.g. cattails, bulrushes)
- Floating water plants (majority of leaves floating on water surface, e.g., waterlilies, duckweed)
- Submerged water plants (leaves and stems below water surface, flowering parts may be exposed, e.g., milfoil, coontail)
- Other: Starry Stonewort, Macro-algae

List Target Plants

Myriophyllum spicatum (Eurasian Watermilfoil)
Potamogeton crispus (Curly-leaf pondweed)
Nitellopsis obtusa (Starry stonewort)

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

Section V – Chemical Control

Alternatives to Chemical Control:

Feasible?

If No, Why Not?

1. Mechanical harvesting	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Mechanical harvesting is on-going, consistent with APM Plan
2. Hand pulling	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Density of AIS too high & distribution of AIS too large.
3. Hand raking	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Distribution of AIS too large & high risk for fragmentation.
4. Hand cutting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Distribution of AIS large, regrowth & fragmentation high.
5. Sediment screens/covers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Distribution of AIS too large & negative impact to natives.
6. Dredging	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Under consideration for small areas, but costly for large areas.
7. Lake drawdown	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Under consideration for 2016-17 winter for SSW control.
8. Nutrient controls in watershed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Efforts underway, but, concentration of legacy nutrients high.
9. Other: <u>DASH</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Distribution of AIS too large to be effective.

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

If you checked yes to any of the alternatives listed above, please explain your decision to use chemical controls:

A timely and targeted herbicide treatment in addition to the on-going mechanical harvesting program has proven to be a successful management approach for the control of AIS in Little Muskego Lake. The dredging of all areas with AIS in Little Muskego Lake is cost prohibitive. The LMLD is preparing a dredging plan for Hillview Bay specifically for the management of Starry Stonewort. An extended drawdown of the Lake for the 2016-2017 winter is under consideration to manage the population of SSW.

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Section V – Chemical Control (continued)

Trade Name of Proposed Chemical(s)

- Aquathol K (liquid endothall)
- DMA 4IVM (liquid 2, 4D)
- Captain XRT (liquid copper algacide)

Other algacides, under controlled experimental treatments, under the direction of the WDNR for the management of Starry Stonewort in Hillview Bay or other treatment areas selected by the WDNR.

Method of Application: LittLine, Littoral Zone Treatment Technology. The trea

Will surface water outflow and/or overflow be controlled to prevent chemical loss? Yes No

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

What were the results of the treatment?

The 2015 herbicide application was performed on Little Muskego Lake on May 15, 2015. Aquathol K and DMA 4 IVM was applied to 7 areas of Little Muskego Lake treating 103.5 acres. Targeted AIS were Eurasian Water Milfoil and Curly-Leaf Pondweed. The Board of Commissioners of the Little Muskego Lake District and the District's aquatic plant harvesting program director observed the chemical treatment was a positive management practice when combined with mechanical harvesting. Chemical treatment for Starry Stonewort was not performed in 2015.

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

Section VI – Applicant Responsibilities and Certification

- 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.
- 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
- 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.
- The applicant has provided 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.

Check if you are signing as Agent for Applicant.

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

Signature of Applicant

STEVE OLSON, TREASURER, BOARD of Commissioners
LMLP.

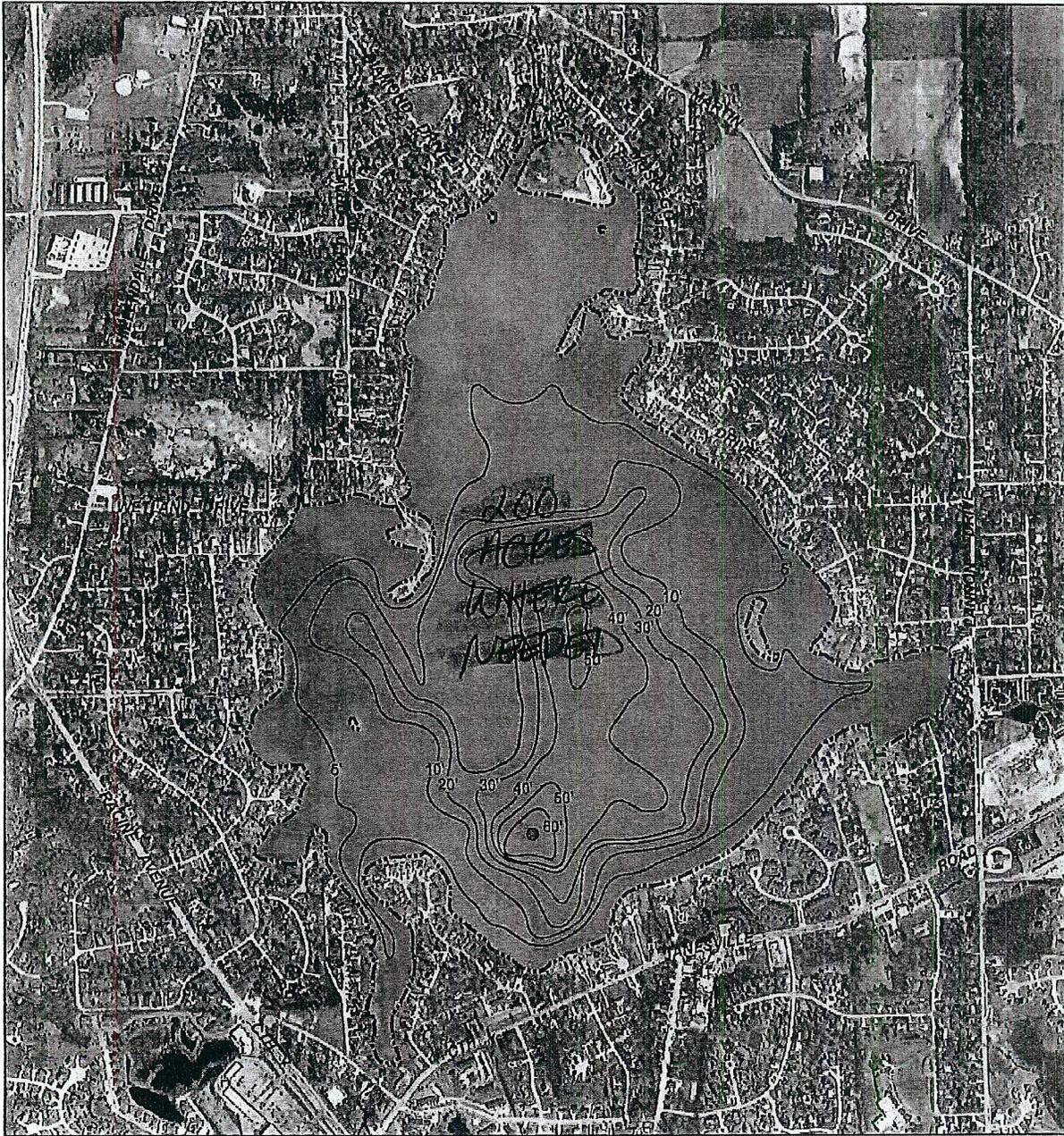
Date Signed

3/1/2016

All portions of this permit, map and accompanying cover letter must be in possession of the chemical applicator at time of treatment. During treatment all provisions of Chapter NR 107, specifically ss. NR 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.

Chemical Aquatic Plant Management - 2016 Map 1

BATHYMETRIC MAP OF LITTLE MUSKEGO LAKE

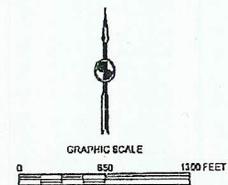


DATE OF PHOTOGRAPHY: APRIL 2005

—20'— WATER DEPTH CONTOUR IN FEET

● MONITORING SITE

Source: U.S. Geological Survey and SEWRPC.



LITTLE MUSKEGO LAKE

Map 2



— 25 — WATER DEPTH CONTOUR (DEPTH IN FEET)

- ▲ PUBLIC BOAT LAUNCH
- ▲ PUBLIC LAKE ACCESS (NO LAUNCH)



Source: City of Muskego