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State of Wisconsin Department of Natural Resources Water Permit Central Intake - WT/3 PO Box 7185, Madison, WI 53707-7185 dnr.wi.gov

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

Form 3200-004 (R 11/11)

Page 1 of 4

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.].

| Se | ection I – Applicant Inform | ation – Nar | ne of Pen nmunities | mit Applicant, Als or town sanitary | o in disi | dicate names and ad ricts sponsoring tre | ldresses o atment. At | f all individua tach addition | lls, asso al sheet | ociations, ts if necessary. |
|---|---|---------------------------|-------------------------|--|--------------|---|--|----------------------------------|-----------------------|--|
| | Name | | | | S | Name | | | | |
| Home Address | Long Lake Preservation Ass Street Address | ociation - F | Cichard C | Clements | ddress | Street Address | | | | The second of th |
| Add | | | | | 10 | | | | | |
| ome | N4010 Sunny Slope City | | State | ZIP Code | ake | City | | | State | ZIP Code |
| Ť | Cascade | | WI | 53011 | | | | | | |
| Ph | one Number (include area code |) | | | - | Email Address | S | | | |
| Pr | imary: (920) 533-8748 | | ondary: | | | kingrichard(| @localnet | .com | | |
| S | ection II - Aquatic Plant Co | ontrol Loca | ttion | | li c | ike Surface Area | | Estimated Su | rface Ar | rea that is 10 Feet or |
| W | aterbody to be Treated (waterbo | dy where tre | atment are | ea is located) | Le | | acres | Less in Depth | | acres |
| | ong Lake | Section | Township | Range VIE | N | 417 ame of Applicator or F | | AND HAVE BEEN AND ASSESSED. | - | and the second second second second second second |
| Co | ounty | | | | | lean Lakes, Inc. | | | | |
| | Fond du Lac | Longitude: | 14] | N 19 LV | _ | reet or Route | | | | |
| La | titude: | Longitudo | -88.175 | A5695 | 5 | 701 Oak Park Road | | | | |
| - | 43.66918274 the waterbody a private pond? | <u> </u> | -00.173 | | _ | ly | | | State | ZIP Code |
| | oes the waterbody have public a | ccess? | X Y | - | lo | akwood Hills | | | IL | 60013 |
| A | ijacent Riparian Property Owner | Names (atta | | | С | ounty | Pł | one Number | (include | area code) |
| | | | | | ١ | McHenry | | (715) | 891-67 | 98 |
| | 2. | | | | E | mail Address | | | | |
| | 3. | | | | | kay@cleanlake.con | | | | |
| | 4 | | | | | pplicator Certification | | | | |
| | 5. | | | | A | my Kay Wensink: | 90532 Th | omas Moorh | ouse: 8 | 39222 |
| | 6 | | | | В | usiness Location Lice | nse Numbe | r (if applicable | ;) | |
| 7. 93-018789-01570 | | | | 1 //5 | tianhla\ | | | | | |
| N | ame of Lake Property Owners' A epresentative (if none, please in | ssociation Re idicate) | epresentat | live or Lake District | R | estricted Use Pesticid | le License f | Number (if app | olicable) | |
| R | ichard Clements | | | | <u></u> | al paralitad sizas o | ftroatmen | t areas) | | |
| A | rea(s) Proposed for Control: | | s in perm | nit cover letter for | una | Average Depth | i ireaimen | (aleas.) | | Total |
| | all land the same of the same | ent Width | | | | | | | | Estimated Acres |
| | see attached ft. X | | | | | | | | | 0 |
| B. | ft. X | ft. ÷ | 43,560 ft. ² | = | | n. | T | otal from lines | 6 A - E | 0 |
| C. | ft. X | ft. ÷ | 43,560 ft. ² | = | | ft. | Total | from Attached | Sheets | 48.6 |
| D. | ft. X | ft. ÷ | 43,560 ft. ² | = | | ft. | | Gran | nd Total | 48.6 |
| E. | ft. X | ft. ÷ | 43,560 ft. ² | = | | fl. | | | | |
| 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. | | | | | | | epth in Section II, this requirement. | | | |
| ls | s this area within or adjacent irea designated by the Depar Resources? | to a sensitiv | e DN | NR Use: NHI Review? | | | Describe: | | | |
| | Y | es X N | 0 | | | | | | | |

Chemical Aquatic Plant Control Application and Permit WPDES Pesticide Pollutant Permit Application Form 3200-004 (R 11/11) Page 2 of 4

| Section III - Fees | the Late Alex 620 minimum obergo |
|--|--|
| 1. s. NR 107.11(1), Wis. Adm. Code, lists the conditions | s under which the permit fee is limited to the \$20 minimum charge. |
| and to take the Lord liefe the uses that a | are exempt from permit requirements. |
| 3. s. NR 107.04(2), Wis. Adm. Code, provides for a refur | and of acreage fees if the permit is denied or if no treatment occurs. |
| 4. Fee calculations: Basic Permit Fee (non-refundable | ble) |
| If proposed treatment is over 0.2 (round up to nearest whole acre | .25 acre, calculate acreage fee: e, to maximum of 50 acres.) |
| 50 acres X \$25 per ac | acre = \$ 1250.00 |
| If proposed treatment is ≤ 0.25 a | |
| | e) |
| Total Fee Enclosed | \$ 1270.00 |
| desired and flow of surface water outside treatment treatment area. Attach a separate list of owners and | indicating area and dimensions of each individual area where plant control is t area. Also show location of property owners riparian to and adjacent to the docrresponding treatment dimensions coded to the lake map, if necessary. |
| Section IV - Reasons for Aquatic Plant Control | Treatment Type: |
| Is this permit being requested in accordance with | |
| an approved Aquatic Plant Management Plan? | res NO Lake Tolid Troilland Internal |
| Goal of Aquatic Plant Control: | Nuisance Caused By: |
| Reduce nulsance algae accumulation | Algae |
| Maintain navigational channel for common use | Emergent water plants (majority of leaves and stems growing above water surface, e.g. cattails, bulrushes) |
| X Maintain private access for boating | Floating water plants (majority of leaves floating on water surface, |
| X Maintain private access for fishing | e.g., waterillies, duckweed) |
| X Improve swimming | X Submerged water plants (leaves and stems below water surface, |
| Control of purple loosestrife | flowering parts may be exposed, e.g., milfoil, coontail) |
| X Control of invasive exotics | |
| Other: | Other: |
| | |
| List Towns Blooks | Note: Different plants require different chemicals for effective |
| List Target Plants | treatment. Do not purchase chemical before identifying plants |
| Curlyleaf Pondweed | |
| Eurasian Watermilfoil | |
| | |
| Section V - Chemical Control | |
| Alternatives to Chemical Control: Fe | feasible? If No, Why Not? |
| The state of the s | Yes X No plant regrowth, fragmentation |
| | Yes X No area too large |
| | Yes X No area too large, plant regrowth, fragmentation |
| | Yes X No area too large, plant regrowth, fragmentation |
| | Yes X No area too large, would also prevent desirable plant growth |
| The state of the s | Yes X No too expensive |
| To the second se | Yes X No not site specific |
| | Yes X No not site specific |
| 6. Mullett Controls in Watershoo | Yes No |
| 9. Other. | perties, consider feasibility of EACH alternative for EACH property owner. |

Note: If proposed treatment involves multiple properties, consider feasibility of EACH alternative for EAC if you checked yes to any of the alternatives listed above, please explain your decision to use chemical controls:

Chemical Aquatic Plant Control Application and Permit WPDES Pesticide Pollutant Permit Application

Form 3200-004 (R 11/11)

Section V - Chemical Control (continued)

Page 3 of 4

| Trade Name of Proposed Chemical(s) Aquathol K (liquid endothall) DMA 4 IVM (liquid 2, 4-D) | |
|---|---|
| Weedestroy AM 40 (liquid 2, 4-D) | |
| | |
| | |
| Method of Application: LittLine, Littoral Zone Treatment Technology | |
| Will surface water outflow and/or overflow be controlled to prevent chemical loss? | Yes X No |
| Have the proposed chemicals been permitted in a prior year on the proposed site? | X All |
| What were the results of the treatment? See Onterra's 2013 Final Report | |
| | |
| | |
| | |
| | |
| | |
| | |
| Note: Chemical fact sheets for aquatic pesticides used in Wisconsin are avail Resources upon request. | able from the Department of Materal |
| Section VI – Applicant Responsibilities and Certification 1. The applicant has prepared a detailed map which shows the length, width and a rooted vegetation and the surface area in acres or square feet for each proposed | d algae treatment. |
| 1. The applicant has prepared a detailed map which shows the length, width and a | d algae treatment. re supervision of any aquatic plant management project lude inspection of the proposed treatment area, licant is required to notify the regional office 4 working size of treatment unless the Department waives this |
| The applicant has prepared a detalled map which shows the length, width and arrooted vegetation and the surface area in acres or square feet for each proposed. The applicant understands that the Department of Natural Resources may require involving chemicals. Under s. NR 107.07, Wis. Adm. Code, supervision may include the chemicals and application equipment before, during or after treatment. The applicacy in advance of each anticipated treatment with the date, time, location and requirement. Do you request the Department to waive the advance notification results. The applicant agrees to comply with all terms or conditions of this permit, if issue Adm. Code. The required application fee is attached. | re supervision of any aquatic plant management project lude inspection of the proposed treatment area, licant is required to notify the regional office 4 working size of treatment unless the Department waives this equirement? X Yes No |
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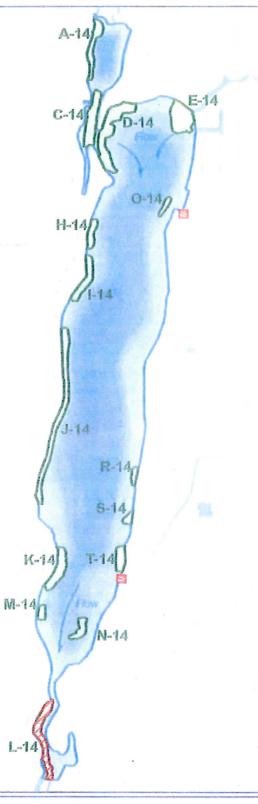
All portions of this permit, map and accompanying cover letter must be in possession of the chemical applicator at time of treatment. During treatment all provisions of Chapter NR 107, specifically ss. NR 107.07 and NR 107.08, Wis. Adm. Code, must be complied with, as well as the specific conditions contained in the permit cover letter.

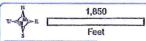
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| Section VII - WPDES Permit Request Is WPDES coverage being requested? Refer to http://dnr.wi.gov/org/water/wm/ww/aquaticpesticides.htm for more information. |
|--|
| The second to complete this section |
| The state of the s |
| Select which permit you are requesting: WI-0064556-1 Aquatic Plants, Algae & Bacteria WI-0064564-1 Aquatic Animals |
| WI-0064581-1 Mosquitoes & other Flying Insects |
| |
| Indicate WPDES permitee responsible for the pollutant discharge: Applicator Sponsor |
| Do you expect the pest control activity will result in a detectable pollutant discharge to waters of the state beyond the treatment area boundary or a pollutant residual in waters of the state after the treatment project is completed? |
| If yes, identify the pollutant(s): |
| Are you planning to incorporate integrated pest management principles, as specified in the WPDES permit, into your pest control activity to minimize any pollutant residual or pollutant discharge beyond the treatment area? |
| Type of WPDES coverage being requested: One Treatment Site Statewide Coverage |
| For informational purposes, select areas of WI for most of your aquatic treatments: NW NE SW SE |
| Is WPDES coverage being requested for more than 1 year? |
| Yes No If yes, the permittee will remain in "active" WPDES status until a Notice of Termination is submitted. |
| I hereby certify that I am the authorized representative (as specified in Ch. NR 205.07(1)(g), Wis. Adm. Code) of the pest treatment activity which is the subject of this permit application. I certify that the information contained in this form and attachments is, to the best of my knowledge, true, accurate and complete. Signature of Authorized Representative Printed Name Date Signed |
| A CONTRACT AND A CONTRACT AND LISE ONLY |
| Section VIII - Permit to Carry Out Chemical Treatment (Leave Blank - DNR Use Only) |
| The foregoing application is approved. Permission is hereby granted to the applicant to chemically treat the waters described in the |
| application during the season of 20_14 |
| Application fee received? State of Wisconsin |
| Department of Natural Resources |
| Yes No For the Secretary |
| Du Mari Marketa |
| Advance notification of treatment required? By Advance notification of Regional Director or Designee |
| treatment required? Régional Director or Designee |
| Yes No Date Signed Date Mailed |
| Date digited |
| 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. |
| establish time periods within which requests to review Department decisions must be most. 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 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 For judicial review of a decision pursuant to slice your petition with the appropriate circuit court and serve the petition on the Department. |
| establish time periods within which requests to review Department decisions made of most so made and days after the decision is mailed or |

| Targeting CLP: Liquid Endothali | | | | | | |
|---------------------------------|-------|----------------------|-------------------|------------------|-------------------------|--|
| Site | Acres | Ave. Depth (feet) | Volume (ac-ft) | Dose (ppm al) | Aquathol K (gallons) | |
| A-14 | 3.0 | 5.0 | 15.0 | 3.5 | 33.7 | |
| C-14 | 4.7 | 3.5 | 16.5 | 2.5 | 26.4 | |
| D-14 | 7.8 | 4.0 | 31.2 | 2.5 | 50.1 | |
| E-14 | 5.4 | 3.0 | 16.2 | 2.5 | 26.0 | |
| H-14 | 1.7 | 3.5 | 6.0 | 3.0 | 11.5 | |
| 1-14 | 3.0 | 3.5 | 10.5 | 3.0 | 20.2 | |
| J-14 | 7.9 | 4.0 | 31.6 | 3.0 | 60.9 | |
| K-14 | 3.6 | 4.0 | 14.4 | 3.0 | 27.8 | |
| L-14 | 4.6 | 3.0 | 13.8 | 2.5 | 22.2 | |
| M-14 | 0.9 | 5.0 | 4.5 | 3.0 | 8.7 | |
| N-14 | 1.7 | 6.0 | 10.2 | 3.0 | 19.7 | |
| 0-14 | 0.9 | 4.0 | 3.6 | 3.0 | 6.9 | |
| R-14 | 0.7 | 3.0 | 2.1 | 3.0 | 4.0 | |
| S-14 | 0.7 | 3.0 | 2.1 | 3.0 | 4.0 | |
| T-14 | 2.0 | 3.0 | 6.0 | 3.0 | 11.6 | |
| Total | 48.6 | | 183.6 | | 333.8 | |

| | T | argeting EWI | M: Liquid : | 2,4-D | |
|-------|-------|----------------------|-------------------|------------------|--------------------|
| Site | Acres | Ave. Depth (feet) | Volume (ac-ft) | Dose (ppm ae) | DMAIV (gallons) |
| L-14 | 4.6 | 3.0 | 13.8 | 3.0 | 29.6 |
| Total | 4.6 | | 13.8 | | 29.6 |





Onterralic
Lake Phangement Framing
#15 Prospec R4
De Pere, WI 54115
920-338-8460
https://doi.org/10.1001/10.1001/

Naurces: Roads and Hyndo: WDNR Bullymatry: WDNR 197, Digitized by Onterra Aquatic Plants: Onterra, 2013 Map Dale: October 22, 2013 Planace: LongPol.CCP_Tollitedia.Lond



Legend

C3

Preliminary 2014 CLP Treatment Strategy



Preliminary 2014 EWM Treatment Strategy Long Lake Fond du Lac County, Wisconsin

2014 Preliminary AIS Treatment Strategy

2,4-D Chemical Fact Sheet

Formulations

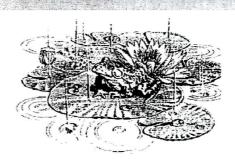
2,4-D is an herbicide that is widely used as a household weed-killer, agricultural herbicide, and aquatic herbicide. It has been in use since 1946, and was registered with the EPA in 1986 and re-reviewed in 2005. The active ingredient is 2,4-dichloro-phenoxyacetic acid. There are two types of 2,4-D used as aquatic herbicides: dimethyl amine salt and butoxyethyl ester. Both liquid and slow-release granular formulations are available. 2,4-D is sold under the trade names Aqua-Kleen, Weedar 64 and Navigate (product names are provided solely for your reference and should not be considered endorsements nor exhaustive).

Aquatic Use and Considerations

2,4-D is a widely-used herbicide that affects plant cell growth and division. It affects primarily broad-leaf plants. When the treatment occurs, the 2,4-D is absorbed into the plant and moved to the roots, stems, and leaves. Plants begin to die in a few days to a week following treatment, but can take several weeks to decompose. Treatments should be made when plants are growing.

For many years, 2,4-D has been used primarily in small-scale spot treatments. Recently, some studies have found that 2,4-D moves quickly through the water and mixes throughout the waterbody, regardless of where it is applied. Accordingly, 2,4-D has been used in Wisconsin experimentally for whole-lake treatments.

2,4-D is effective at treating the invasive Eurasian watermilfoil (Myriophyllum spicatum). Desirable native species that may be affected include native milfoils, coontail (Ceratophyllum demersum), naiads (Najas spp.), elodea (Elodea canadensis) and duckweeds (Lemna spp.). Lilies (Nymphaea spp. and Nuphar spp.) and bladderworts (Utricularia spp.) also can be affected.



Post-Treatment Water Use Restrictions

There are no restrictions on eating fish from treated water bodies, human drinking water or pet/livestock drinking water. Following the last registration review in 2005, the ester products require a 24-hour waiting period for swimming. Depending on the type of waterbody treated and the type of plant being watered, irrigation restrictions may apply for up to 30 days. Certain plants, such as tomatoes and peppers and newly seeded lawn, should not be watered with treated water until the concentration is less than 5 parts per billion (ppb).

Herbicide Degradation, Persistence and Trace Contaminants

The half-life of 2,4-D (the time it takes for half of the active ingredient to degrade) ranges from 12.9 to 40 days depending on water conditions. In anaerobic lab conditions, the half-life has been measured up to 333 days. After treatment, the 2,4-D concentration in the water is reduced primarily through microbial activity, off-site movement by water, or adsorption to small particles in silty water. It is slower to degrade in cold or acidic water, and appears to be slower to degrade in lakes that have not been treated with 2,4-D previously.

There are several degradation products from 2,4-D: 1,2,4-benzenetriol, 2,4-dichlorophenol, 2,4-dichloroanisole, chlorohydroquinone (CHQ), 4-chlorophenol and volatile organics.



Impacts on Fish and Other Aquatic Organisms

Toxicity of aquatic 2,4-D products vary depending on whether the formulation is an amine or an ester 2,4-D. The ester formulations are toxic to fish and some important invertebrates such as water fleas (*Daphnia*) and midges at application rates; the amine formulations are not toxic to fish or invertebrates at application rates. Loss of habitat following treatment may cause reductions in populations of invertebrates with either formulation, as with any herbicide treatment. These organisms only recolonize the treated areas as vegetation becomes re-established.

Available data indicate 2,4-D does not accumulate at significant levels in the bodies of fish that have been tested. Although fish that are exposed to 2,4-D will take up some of the chemical, the small amounts that accumulate are eliminated after exposure to 2,4-D ceases.

On an acute basis, 2,4-D is considered moderately to practically nontoxic to birds. 2,4-D is not toxic to amphibians at application rates; effects on reptiles are unknown. Studies have shown some endocrine disruption in amphibians at rates used in lake applications, and DNR is currently funding a study to investigate endocrine disruption in fish at application rates.

As with all chemical herbicide applications it is very important to read and follow all label instructions to prevent adverse environmental impacts.

Human Health

Adverse health effects can be produced by acute and chronic exposure to 2,4-D. Those who mix or apply 2,4-D need to protect their skin and eyes from contact with 2,4-D products to minimize irritation, and avoid inhaling the spray. In its consideration of exposure risks, the EPA believes no significant risks will occur to recreational users of water treated with 2,4-D.

Concerns have been raised about exposure to 2,4-D and elevated cancer risk. Some (but not all) epidemiological studies have found 2,4-D associated with a slight increase in risk of non-Hodgkin's lymphoma in high exposure populations (farmers and herbicide applicators). The studies show only a possible association that may be caused by other factors, and do not show that 2,4-D causes cancer. The EPA determined in 2005 that there is not sufficient evidence to classify 2,4-D as a human carcinogen.

The other chronic health concern with 2,4-D is the potential for endocrine disruption. There is some evidence that 2,4-D may have estrogenic activities, and that two of the breakdown products of 2,4-D (4-chlorophenol and 2,4-dichloroanisole) may affect male reproductive development. The extent and implications of this are not clear and it is an area of ongoing research.

For Additional Information

Environmental Protection Agency Office of Pesticide Programs

www.epa.gov/pesticides

Wisconsin Department of Agriculture, Trade, and Consumer Protection

http://datop.wi.gov/Plants/Pesticides/

Wisconsin Department of Natural Resources 608-266-2621

http://dnr.wi.gov/lakes/plants/

Wisconsin Department of Health Services http://www.dhs.wisconsin.gov/

National Pesticide Information Center 1-800-858-7378

http://npic.orst.edu/

