

Hicks Lake Special Assessment District May 2021 Update

Greetings Neighbors!

This letter is intended to provide a brief update on the progress of the Hicks Lake Special Assessment District (SAD) that was formed for the purpose of treating the weeds in our lake.

The assessment was implemented (as I am sure you are all aware) and applied to your winter tax bill. Those funds are our working budget for this summer's treatment program. There have been some "start-up" costs associated with getting this all properly implemented. We needed to reimburse the Township for legal fees incurred on behalf of the Hicks Lake property owners. This included the cost of the Township's lawyer providing legal advice in the SAD formation and implementation process. The Township lawyer also had to represent the SAD in the legal challenges to the SAD presented by a couple of property owners. These fees have reduced the available funds slightly, but the Township Board has graciously offered to amortize the reimbursement over three years without interest. This offer will allow us to maximize our resources for the program beginning this year.

We previously issued an invitation to all property owners asking for volunteers to form an "oversight committee". The purpose of the committee is to manage the SAD and resulting programs. The committee consists of Noah Stark, Norm Klein, Jason Bont, Mike Ritzer, and Randy Hackett. This group has been meeting virtually throughout the winter to work on getting this program set up and moving.

We are in the process of setting up a website again for Hicks Lake. This will allow all to view the latest information on what is going on with the lake management program, view MSDS sheets on weed treatment products utilized, weed information, etc. We have established an email address for the committee (managehickslake@gmail.com) to facilitate communication with the committee members.

You will be receiving a communication from PLM with information regarding the treatment program and a general timetable of treatments. I will defer to that communication to provide specifics.

Once again, if you have questions or concerns for the committee, please use the email address managehickslake@gmail.com. Your message will be addressed by someone on the committee.

We look forward to seeing you all on a much more weed free Hicks Lake this summer.

Sincerely,

Your Hicks Lake SAD Committee

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PLM Lake & Land Management Corp.
 PO Box 424 Ewart, MI 49631
 800-382-4434(o) 231-372-5900(f)
 www.plmcorp.net



The property owners in this area are planning to have the waters chemically treated to control lake weeds and/or algae. This notice is being circulated in accordance with Department of Environment, Great Lakes & Energy (EGLE) procedures. Below is a list of herbicides that **may** be applied to the lake and the associated use restrictions. On the day of treatment, signs will be posted along the shoreline within 100 feet of treatment areas that indicate what products were used and specific water use restrictions that apply:

Chemical product/active ingredient	Chemical trade name	Do Not Use this water for swimming and bathing until	Do Not Use this water for ornamentals or turf irrigation until	Do Not Use this water for domestic purposes or agriculture irrigation until	Do Not Use this water for livestock watering or similar purposes until
2,4-D ester granular	Navigate	1 day	INDEF or until approved assay indicates a concentration of 100ppb or less for ornamentals; No restriction for established turf	INDEF or until approved assay indicates a concentration of 100ppb or less	N/A
2,4-D amine granular	Sculpin G	1 day	Site-specific recommendation* No restriction for established turf/grasses	N/A on domestic; assay indicates levels under 100ppb at the water intake	See product label
Triclopyr liquid	Renovate 3, Navitrol	1 day	120 days or until approved assay indicates 1ppb or less; No restriction for established turf/grasses	N/A on domestic; 120 days or until assay indicates 1ppb or less	See product label
Triclopyr granular	Renovate OTF/ Navitrol DPF	1 day	Site-specific recommendation* No restriction for established turf/grasses	N/A on domestic; 120 days or until assay indicates 1ppb or less	See product label
Diquat dibromide	Reward, Tribune,	1 day	3 days	5 days	1 day
Endothall	Aquathol K, Hydrothol 191.	1 day	N/A	14 days	14 days
Flumioxazin	Clipper, Propellar, Schooner	1 day	3 days	5 days	N/A
Endothall/Diquat Dibromide	AquaStrike	1 day	3 days	14 days	14 days
Chelated Copper	Nautique, Komeen Crystal,	1 day	N/A	N/A	N/A
Florpyrauxifen-Benzyl	ProcellaCOR	1 day	Site-specific recommendation* No restriction for established turf/grasses	N/A on domestic; assay indicates no detect at the water intake	N/A

PLM Blue, Cygnet Select: water dye (tracer), **Copper Sulfate Alonglife:** copper sulfate, **Citrine Plus-Ultra, Captain-XTR, SeClear and SeClear G:** chelated copper, **Cygnet Plus, PolyAn:** Adjuvant, **Pak 27, AquaSticker, Green Clean L and Green Clean 5.0:** oxidizer, **M.D. pellets:** gram negative, naturally occurring bacteria. **PLM Enzyme:** enzymes, **Phoslock:** phosphorus locking technology.

No Restrictions on swimming, bathing, irrigation, domestic purposes or livestock watering.

For a complete listing of all product labels, please see our website.

N/A=Not Applicable INDEF= Indefinite

*Site-Specific recommendations to limit ornamental irrigation with ProcellaCOR, Renovate & Sculpin granular treated water will typically last 2-14 days. Contact PLM for further information.

The chemicals used for Aquatic Nuisance Control are registered by the U.S. Environmental Protection Agency and the Michigan Department of Agriculture. The potential for damage to fish and other non-target organisms is minimal provided that the product is used as directed on the product label and the permit. To minimize the possible effects on health and the environment, the treated water is restricted for the above purposes.

PLM Lake & Land Management Corp. Certified Applicators: Salvatore Adams, Jason Broekstra, Adam Cichon, Bill D'Amico, Jaimee Desjardins, William Ducham, Jeff Fischer, Christopher Garner, BreAnne Grabill, Dustin Grabill, Steve Hanson, Kyle Heath, Jake Hunt, Caleb Hutchinson, Jacob Irons, Shannon Leifker, Blake Mallory, Michael Pichla, Eric Reed, Colton Risner, Cameron Robinson, James Scherer, Alison Schermerhorn, Ben Schermerhorn, Casey Shoaff, Lucas Slagel, Keith terHorst, Jeff Tolan, Andy Tomaszewski, Dennis Vangessel, Andrew Weinberg

Method of Application: Chemical application will be made via boat, back pack, and/or land vehicle applying liquid surface products by surface spray and/or injection. Granular product application will be surface broadcast.

Permit Information: Department of Environment, Great Lakes & Energy
 Aquatic Nuisance Control Program
 PO Box 30273, Lansing, MI 48909-7773
 EGLE-LWM-ANC@michigan.gov

****Tentative Treatment Schedule on Back****

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Commonly Asked Questions: Risk/Benefit Statement

What is a Pesticide?

A pesticide is any substance or mixture of substance intended to control pest infestations. The word pesticide covers a broad range of products that control a wide range of pests. Pesticides may be broken down into categories of products (herbicides, insecticides, fungicides, piscicides, molluscicides and rodenticides). There is also another category known as plant growth regulators (PGR). In the world of aquatic plant management, herbicides and algaecides are the most commonly used pesticides.

How Pesticides Work

Products intended for use on your property are applied as a liquid, dust, aerosol, granule, or bait and are generally active for a few minutes to a few months. Some compounds control pests on contact by damaging the physical structure of the pest. Other compounds become active only after they are absorbed or ingested, by interfering with physical development or the reproduction ability of the pest. The pesticide product label contains specific information on how to control targeted pests. All pesticides must be applied in accordance with label directions. Pesticides may be effective against a large class of organisms or they may be specific to a particular organism. This means that many times, applicators can choose an effective pesticide or pest control strategy that will minimize potential impacts to humans, pets and other non-target organisms.

Why Are Pesticides Used?

Pesticides (Herbicides/Algaecides) are used to improve and maintain the recreational uses of water. A well maintained lake or pond would increase the value of your home. They can also improve the general aquatic ecosystem. A lake or pond choked with aquatic weeds can lead to stunted fish populations. Certain types of algae can be toxic to man, fish and other aquatic life. Pesticides are used to bring a balance back into the aquatic ecosystem. It is important to know that all plants are not weeds. Therefore, no aquatic management plan should attempt to eliminate all plants from the aquatic system. Your professional lake manager has taken care to provide a program that both reduces nuisance aquatic plants and maintains some plants to provide cover and food for aquatic organisms that depend on plants and algae for their very existence.

Toxicology

Toxicology is the measure of a substance to cause harm. The risk associated with harmful substances is a combination of toxicity of a substance and the amount of exposure to the substance. In the aquatics industry, both the toxicity and exposure are minimal. Most aquatic herbicides are mixed with water and evenly applied over the surface of the water. Dilution soon effects the concentration of an herbicide in the water. For example, Reward when applied at two gallons per surface acre would require a 150-pound person to consume 3,750-7,500 gallons of treated water immediately after application to ingest enough active ingredients (diquat dibromide) to achieve a lethal dose concentration 50 percent of the time. Typical application rates for Endothol products (Aquathol and Hydrothol) are between 1 ppm (parts per million) and 5 ppm. The LD/50 for Endothol is 230 ppm. Herbicide usage rates are expressed in parts per million or even parts per billion in the case of Sonar.

Pesticide Classification

Pesticides are given a classification upon registration with the EPA. There are two broad classifications of pesticides as established by the EPA. The first classification is general use pesticide. These are considered lower in risk and are available for sale and use by the general public. Most of the herbicides used in the aquatic industry are for general use. The second classification is restricted use pesticides (RUP's). Reward is a RUP. These herbicides can only be purchased by state certified professionals. The Michigan Department of Agriculture currently certifies Commercial Pesticide Applicators, pursuant to Act 171 of Public Acts of 1976 as amended.

Environmental Fate

Many questions are asked regarding what happens after a pesticide is used in a lake or pond. Generally, pesticides break down rapidly in the environment. Depending on the products used, a combination of sunlight, water chemistry and microbial action break the pesticide down into natural components. Some pesticides, such as Reward, bind with sediments and are no longer available as an herbicide.

Michigan Department of Agriculture (MDA)

The Department of Agriculture mandates that any company offering an aquatic weed control service must have both a commercial license and personnel with pesticide applicators certificates. For certified applicators to maintain their license they must either participate in an MDA approved continuing education course or take a written exam every three years. They may also attend conferences and meetings that person the latest research concerning aquatic pesticides, proper usage and new application techniques within the

RELATIVE TOXICITY OF CHEMICAL SUBSTANCES Acute Oral-Rates LDC/50-mg/kg

Less Toxic

Fluridone	10,000
Glyphosate	5,600
Table Salt	3,000
Renovate	2,574
Aspirin	1,000
2,4-D(DMA)	300-1,000
Copper Sulfate	300
Reward	230
Caffeine	192
Nicotine	53
Sodium Cyanide	6.5

Most Toxic

LD C/50 (lethal dosage/50%) is the amount of active ingredient required to cause the death of one-half of the test population

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industry. One such group in Michigan is the Midwest Aquatic Plant Management Society. All pesticides used in Michigan must be registered with the MDA and the EPA.

Regulations Department of Environmental Quality (EGLE)

The Department of Environmental Quality (EGLE) regulates the use of herbicides and algaecides by issuing permits to control nuisance aquatic plants. The EGLE provides licensing and certification of commercial applicators. The EGLE can answer questions at www.michigan.gov/EGLE or 517-241-1300.

Product Registration

All products are regulated by the EPA and must maintain registration with agency. The EPA determines if a product will be a general use product or a restricted use pesticide. The EPA may at any given time ask for additional data on a product. Companies are required to keep all data on a pesticide for the life of the compound. Registration and re-registration of a compound are estimated to cost the producer between 2.4 and 4.0 million dollars. The cost of research and development for new products is typically between \$30 and \$70 million dollars before the first product can be sold commercially.

Common Sense

All pesticides may cause harm at some level of use. There is little chance for direct exposure to an herbicide in its concentrated form to anyone who is not a pesticide applicator. If a treatment of your lake or pond has been performed and you cannot find a notice indicating water use restrictions, it is highly probable that non-water restrictive products such as copper sulfate or cutrine-plus have been applied. There are two distinct categories of treatments, nuisance vegetation and nuisance algae. Treatments for aquatic vegetation normally involve some type of water restrictive product and requires the posting of restriction signs. Algae treatments usually involve non-water restrictive products and therefore a green posting sign will be used.

The Dose Makes the Poison

“Solely the dose determines that a thing is not a poison,” observed Paraceluss, the father of modern toxicology, more than 400 years ago. Paracelsus was right. Prescription drugs, for example, are therapeutic if taken in small doses, but can be dangerous if abused or taken in overdose proportions. Pesticides, like antibiotics are effective when used in the circumstances, but can become a threat to the environment or even human health in improperly used. Just as in medicine, the risks inherent in a particular pesticide must be weighed against the benefits gained from its measured use.

General Comments

Overall great care and thought have gone in deciding the best management program for the control of nuisance aquatic plants and algae on your lake or pond. Our goal is to manage the high use areas of the water body; eliminate exotic species (non-native) such as Eurasian milfoil; and provide a good habitat for fish and other aquatic life.

Should you observe an unusual effect following a pesticide application, immediately wash with soap and water and call your professional lake manager and your doctor. Your doctor will require information about the products applied. Additional emergency information about the pesticide maybe obtained by contacting the **Poison Control Center at 800-632-2727 (616 area code), or 313-745-5711 (616,810, or 906 area code)** or the National Pesticide Telecommunications Network at 800-858-7378.

Riparian Responsibilities

Yes, if you live on a lake, YOU have responsibilities. Properly maintaining your lawn near the lake is an essential part to a healthy aquatic ecosystem. Some ways you can help your waterbody include:

- Use phosphorous free fertilizers
- Do not allow grass clipping to enter the lake
- Pick up dog and geese droppings
- Rake shoreline in the spring and fall to remove leaves, sticks and debris
- Pick up floating plants that wash up on shore
- Rake swim areas
- Clean boats prior to entering or leaving your lake
- Do not dump bait into the lake
- Educate your new/old neighbors of their “Riparian Responsibilities”

If you, your lake association, lake board or weed committee, need additional educational outreach information regarding “Riparian Responsibilities”, please contact your PLM representative for assistance.

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Got Muck?



PLM MD (Muck Digestion) Pellets are a combination of natural beneficial bacteria, enzymes, and vitamins that stimulate the biological activity at your lake or pond bottom. This stimulation allows the bacteria to feed on the organic sediment, therefore reducing the muck levels. PLM MD Pellets are easily applied by anyone once a month, when the water is above 55 degrees. Commercial applications are available for larger jobs.

PLM MD Pellets come in 10 and 30 pound buckets or a 50 pound bag.

Please contact our office to purchase or for additional information.

2021 TENTATIVE TREATMENT SCHEDULE

Hicks Lake has been scheduled for the week of:

Week of	Type of Treatment	Week of	Type of Treatment
5/24/2021	Survey	5/31/2021	Weed & Algae Treatment
6/21/2021	Survey, Weed & Algae Treatment	7/12/2021	Survey
7/19/2021	Weed & Algae Treatment	8/16/2021	Survey
8/23/2021	Weed & Algae Treatment	9/13/2021	AVAS Survey

EGLE permitting restrictions, national holidays, and/or weather conditions may influence the timing of treatments throughout the 2021 season. PLM treats each lake according to a schedule or season plan, established with the cooperation of your lake association, lake board or residents on the lake. The treatment schedule is approximate. Please watch your shoreline for the posting of the 8.5x11 inch, yellow or green signs. The signs will indicate the date of the treatment, the products used, and any restrictions on the use of treated water for swimming, watering lawns, etc.

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