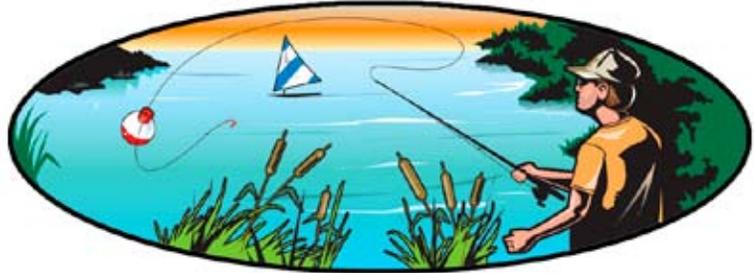


Hardwood Lake Property Owners Association

www.hardwoodlake.org



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Fall 2022

The newsletter is
in **color** on the website and Facebook.



Twenty five runners at the mass start of the 2nd Annual Kids Fun Race ranged in age from two to twelve. More photos inside.

Lake Association update

The Lake Association annual meeting was held July 2 at the Logan Township Hall. About 21 members attended.

continued on page 2

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Lake Association continued

Clay Dees was reelected Vice President and Sandy Schafer was elected secretary/treasurer. She was appointed in April when Margo Dees stepped down after 12 years of service.

There was discussion on the lake weed control project. Details are in another article.

Weed control

Weed control issues in the lake continue to be a problem. There are a couple of issues to be aware of. First are non-native invasive species such as Eurasian Milfoil and Starry Stonewort. Both are below the surface and not easily noticed. Both are treated on a regular basis and if this wasn't done the weeds would overwhelm the lake in a few years.

Algae growth is recognized the most because it appears on the surface. Planktonic Algae, the floating green "pond scum", is seen in late summer especially on calm mornings following a light southern wind overnight.

The water volume in the lake is entirely from runoff from about 4,000 acres surrounding the lake. There are a lot

The semi-annual potluck picnic is scheduled for Saturday, June 24, 2023. Mark your calendar now.

Members expressed concern over many ATV's on Hardwood Heights and the speed at which they are traveling. Slow down so that all may enjoy the road.

of nutrients washed into the lake, including yard fertilizers. Warm weather in the summer accelerates algae growth. Our engineering firm is seeing more algae throughout the state.

Unfortunately the lake will never be a clear lake. Residents have asked if there is anything else that can be done. The question has been asked of our engineering consultant, Rick Buteyn of Progressive AE. In part he responded:

"I certainly agree that Hardwood Lake was the clearest I have seen it earlier this year. The lake has been battling algae due to high nutrient concentrations for years now. Unfortunately, when conditions are favorable, algae growth can continue even

Michelle McMorris was elected director to the Lake Association board at the July meeting. Michael and her husband of 33 years, John, have been on the lake almost six years. They live in Clio.



Michelle has owned Miles Away Travel /agency for 25 years. John is a GM reiree. See her ad on page 3

Michelle said "We love hunting and fishing and our place on Hardwood Heights is our HAPPY PLACE."

after treatment. Further, treatment has been restricted by the new permitting regulations set by EGLE. Previously, the lake could be treated up to 300' from shore for algae but the new permitted areas only extend 100' from shore. This has made algae treatments less effective.

It may be appropriate to consider a phosphorus reduction program going forward to try to curtail the algae growth on the lake. There are a couple of

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approaches that may be appropriate:

1. Aluminum sulfate (alum). This would cost a significant amount, possibly in the hundred thousand dollars range. Alum is applied to strip the phosphorus out of the water column and create a very thin layer of phosphorus binding material on the lake bottom. A specialized barge is needed to apply the alum and the nearest company that does this work is based in Lincoln, Nebraska. We are currently pursuing alum treatments on two Michigan Lakes.

2. Phoslock (lanthanum). Phoslock is a granular product that is applied in a slurry to the lake. Similar to alum, lanthanum also binds phosphorus and creates a thin layer on the lake bottom. It is able to be applied by the commercial herbicide applicators, but a lake wide treatment would still be very expensive. This is a newer product and we are testing its efficacy near a nutrient laden inlet on Wiggins Lake in Gladwin. Morrison Lake has recently been conducting whole lake treatments using Phoslock with positive results.

3. Eutrosorb WC: "Proprietary aqueous blend" according to the manufacturer, but like lanthanum. Not approved for use in Michigan yet, so permitting and costs are unknown, but it appears to be a promising option for stripping phosphorus from the water column.

I think we should discuss this topic at our next meeting in order to plan for 2023.

Thank you,
Rick Buteyn
Water Resources Specialist"
According to Dave Sommers, our repre-

sentative on the Lake Improvement Board, Raising \$100,000 or more would be extremely difficult, requiring a costly special assessment. Rick has said that there is no guarantee the treatment would work for us and if it did there is no good idea of how long it would last.

We try to do an algae treatment before the three summer holidays when the lake receives the most use. Prior to the July 4th weekend there was an algae treatment. A few weeks later there was more floating planktonic algae and another treatment scheduled. There is a long stretch between July 4th and Labor Day. A treatment was applied on July 28 - within a few days algae returned. Rick was asked about this and replied in part:

"Based on the results of the last algae treatment and the fact that the planktonic algae growing in Hardwood Lake is across its entirety, I am concerned that we would have a similar situation to the last treatment where there was no noticeable difference post-treatment. We may only treat 100' from shore so the area of impact is quite limited. It would be helpful if we had some cool cloudy weather that would naturally reduce some of the algae growth. I look forward to meeting and discussing the lake management strategy with the group this fall."

Treatment maps are posted on the lake Facebook and web site.

The Lake Board is scheduled to meet Monday, October 10, 2022 at 7 pm at the Logan Township Hall. Please attend so Rick can answer your questions or feel free to contact our Lake Board representative, Dave Sommers.

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Michelle McMorris



The annual July 4th boat parade sees more entries every year and is becoming very popular.



The ice cream social was held again this year. Cool, overcast, weather may have deterred some but 21 showed up.



The 2nd annual kids fun run took place July 3rd. About 25 youngsters participated with a large crowd of parents and others cheering them on. The event started on Hardwood Heights, continuing down a driveway then along Ozelma Drive. The runners could run another lap and received a beaded necklace for each lap completed.

Hardwood Height's Halloween Hoot!



Questions? Reach out on our private Facebook group "**Hardwood Lake**" or one of our chairs can help you.
Shelly Golden shellygolden7@gmail.com, or Angela Myers amyers0920@yahoo.com

Join us for a ghoulish good time in benefit of Hale Area Fish food bank

When: Saturday, October 15th
Where: Hardwood Heights Drive off Henderson Lake Rd, all lake residents welcome!

Food drive, trick or treating, 50/50 Raffle, pet costume contest, and cottage/trunk decoration contest

- Drop food donations at The Golden's 3141 Hardwood Heights
- Trick or Treating from 4:00PM-5:30PM
- Pet Costume Judging/Cottage Judging/50-50 Raffle 5:45PM at The Golden's 3141 Hardwood Heights

Trick or Treating: If you plan to participate, please set up in your yard near the road as trick or treaters walk the neighborhood. We encourage you to decorate your cottage/table/trunk/mailbox-whatever! to enter the contest.

Pet costume contest: bring your pet in their best costume to be judged to win a prize!

50/50 Raffle proceeds to go Hale Area Fish food bank

The annual Halloween Hoot will be held Saturday, October 15, 2022 at 3141 Hardwood Heights. Trick or Treating is from 4:00 pm to 5:30 pm. More details are on the Facebook site or contact Shelly Golden at shellygolden7@gmail.com or Angela Myers at amyers0920@yahoo.com



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Lake Board Annual Meeting

Monday, October 10, 2022
7:00 p.m.
Logan Township Hall
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