

GLEN LAKE IT'S ALL ABOUT THE WATER



WINTER 2021

To preserve and protect the water quality, natural resources and quality of life in the Glen Lake Watershed through leadership, education and collaboration.

The Glen Lake Association, Inc., is a 501c3 non-profit organization dedicated to the protection, preservation and continued improvement of the beautiful Glen Lake area.

From Our President, Edward Lanphier



None of us could have imagined that January of 2020 would be the last time your GLA Board of directors would meet in person. But like all of us we "turned on (the internet), tuned in (Zoom) and kept it...All About the Water"!

Our work continued,

• Adjusting the Crystal River dam to maintain adequate lake levels and flow in the Crystal River,

 Organizing summer water monitoring such as hydrolab measurements, Secchi disk readings, plankton and aquatic garden surveys,

 Conducting research projects including year one of an innovative three-year study of Septic impacts to well and lake water using DNA and Infrared drone technology,

 Providing volunteer and intern opportunities related to water sampling for water quality monitoring and research projects, bird surveys, invasive species mapping and removal, and creel census data collection,

• Educating our community through bimonthly eBlasts, virtual Discovery Boat videos, home visits with property owners wishing to implement Guardian Best Management Practices (BMPs) and sponsorship of statewide educational forums.

• Purchasing personal protection equipment (PPE) for and training our boat wash staff in its use, so that our boat wash could continue to be our front line of protection from aquatic invasive species.

Continuing to stay digitally engaged, we were the exclusive sponsor of the Michigan Lakes and Streams Association 2020 Spring Webinar Series, the Biennial Michigan Inland Lakes Conference 2020 and the upcoming 2021 Winter Water Quality Symposium: Emerging Technologies to Empower Effective Inland Lake Stewardship.

In addition to education, collaboration and research, we continue our work to gain public support to enhance the protection of our watershed through a proposed Overlay District as this effort moves to the Township Planning Commissions and Boards for hopeful adoption. If approved by the four Townships that boarder our watershed the provisions would provide uniform zoning protections for future development by implementing low impact development standards to reduce runoff, prevent excessive removal of vegetation cover along shorelines and ridgelines and reinforce existing regulation regarding fertilizer usage.

Our ongoing efforts to prevent and remove invasive species in our waters and along our shores expanded this year with record numbers of boat wash users and creation of an innovative terrestrial invasive species mapping and removal program that utilizes students, interns and GLA volunteers. We were particularly focused on and were successful with yellow iris removal along the shores of the Fisher Lakes and Big Glen.

The GLA remains dedicated to preserving, protecting and improving all the waters of our watershed, its lakes, streams wetlands and groundwater, through technically sound water quality monitoring, research and restoration actions and innovative education, collaboration and communication. "We Are All Guardians" of the Glen Lake/Crystal River Watershed. The quality of life we enjoy in this remarkable corner of the planet is critically linked to how well we continue to support these efforts.

None of this would be possible without you, our Members and our volunteers. Thank you very much for your ongoing commitment to uphold the charge to preserve and protect! See you on the water!!

Edward Lanphier President, Glen Lake Association

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Wherever you are in the Watershed, We are All Guardians!

The GLCR Watershed includes all the land area and water bodies that drain into **Glen Lake**, then through the **Fisher Lakes** and down the **Crystal River** all the way to **Sleeping Bear Bay**. This nearly **20 sq. mile** area includes many lesser known "satellite" water bodies. Their health and the health of all these connected waters are inextricably linked. Can we continue to boast that the water we send downstream is so pure and clean that we improve the water quality of Lake Michigan?

It's all about the Water! Wherever you live work or play in the **Glen Lake/Crystal River Watershed** are you doing your part to preserve, protect and



Fisher Lakes



Brooks Lake



Mouth of the Crystal River

improve all the waters of our unique Watershed? Contact: Glen Lake Guardian Ambassador, Tricia Denton at **glenlakeguardians@gmail.com** to learn more.





Tucker Lake



Mill Pond



Little Glen Lake

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Water Level Fun Facts

With the Crystal River dam running full open (**90 cubic feet per second**) and no water coming into the lake, it would take **36 days** for the lake to go down **one foot**.

> The Kraken is a mythological beast about the size of a Russian nuclear submarine. **10 Kraken** hiding in the depths of Glen Lake would raise the water level only **1/4 inch.**

In 2020 we had 6 storms which dropped over **1.5 inches** of rain in **24 hours.** Those **6 storms** raised the lake level over a foot cumulatively.

Water level committee volunteers made **22 changes** to the dam gate height in 2020 to balance the rain events with Crystal River dam flow and maintain the lake at its target level.

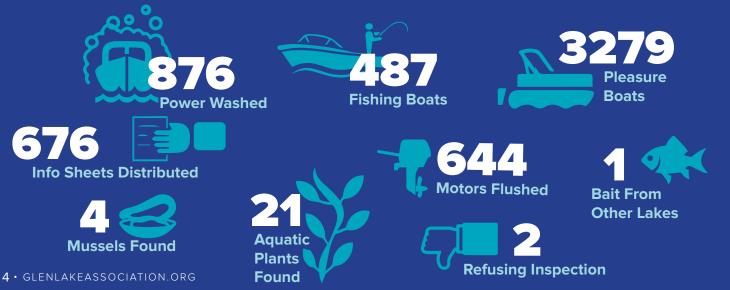


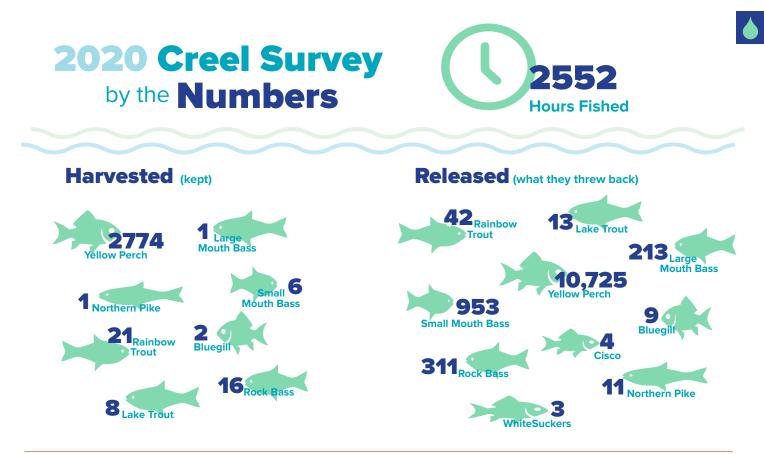
With the GLA Water Level Volunteers doing everything they can to maintain a healthy balance what more can be done? What can you do to **prevent winter ice damage** and **erosion** from high water levels? **Natural Shorelines** and **Bioengineering** solutions are the best defense and are best for water quality too. Contact Guardian Ambassador Tricia Denton for a complimentary consultation today! **glenlakeguardians@gmail.com**

Learn more by attending MSU webinar "A New Wave of Thinking" March 24, 2021 Webinar Registration - Zoom

2020 Boat Wash by the Numbers





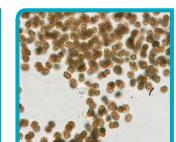


Plankton Important Indicator of Lake Health

The GLA has been monitoring phytoplankton and zooplankton in the deep basins of Big and Little Glen and Big and Little Fisher since 2014

Species richness and relative abundance were recorded and show a general upward trend in the diversity of species detected. Good news! As species diversity is a positive indicator of overall lake ecosystem health.





Ceratium sp.

Microcystis sp.



In the **six-year study** a total of over **30 genera** were recorded. Big Glen plankton was often dominated by a dinoflagellate named **Ceratium sp.** and Little Glen was dominated by **Microcystis sp.**

The name **Microcystis** may sound familiar as it is members of this genus that are responsible for the harmful algal blooms in places like Lake Erie that have made national news.

Most **Microcystis** communities consist of individuals with and without the ability to produce toxins such as **Microcystin**. The science is still out on what triggers the toxins to be produced but warmer water temperatures and excessive nutrients from fertilizers are believed to play a role.



Discovery Boat 2020 Goes Virtual

Despite the inability to host in person gatherings this past summer, the **Discovery Boat** crew jumped into action and created more than **6 hours of educational videos**, an enduring virtual educational library covering topics such as:

- Geology of Glen Lake/Crystal River
- Aquatic Plants and Aquatic Gardens of Glen Lake
- Snails and Clams of Glen Lake
- Fish of Glen Lake
- Swimmer's Itch
- Proposed Glen Lake/Crystal River Watershed Overlay District
- Monitoring the Chemistry of Glen Lake
- Eradication of Invasive Terrestrial Shoreline Plants and More!

We hope to be back on the water with you in 2021! **10 public cruises** are planned in **July** along with private, "custom" cruises available for

YouTube YouTube Q Watershed Characteristic Hydrolab Testing Glen Lake/Crystal River Discovery Boat - Monitoring the Chemistry of Glen Lake Watershed Overlay District YouTube Q YouTube Discovery Boat - Aquatic Plant Invasive Species - Fradicating Survey Work Yellow Iris and Purple Loostrife

our top donors. In the meantime check out the **Glen Lake YouTube** channel to access the new Discovery Boat year round offering!

What can you do to prevent the itch?

- Cover your skin with swimwear that covers the area you want to be itch free (SI rarely affects a person's hands, feet, and face)
- Towel off vigorously after swimming
- Swim in the afternoon or early evening vs. morning
- Do not swim when an onshore wind is present
- Do not swim/wade in shallow water without using prevention measures
- Install a swim baffle (float) in your swim area
- Use a **parasite skimmer**
- Use a kid friendly wading or "kiddy pool" vs. using shoreline lake water for small kids to swim in

Swimmer's Itch? Prevention is the Key!

50 years of trial and error, plus the latest research have shown our best and most cost-effective defense against Swimmer's Itch is prevention, not control.



Use the New Swimmer's Itch Reporting Tool!

In 2020 the GLA joined a new **North American Swimmer's Itch** reporting effort aimed at collecting data to aid in prediction of swimmer's itch risk, identifying hot spots, and contributing to development of a SI alert network. **46 cases** of Swimmer's Itch were reported around Glen Lake in 2020 using the new system. In 2021, be sure to **Map** and **Report** any cases of Swimmer's Itch using the link on our website

and help us build this promising new prevention tool with other lakes across the US and Canada!



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Supporting the next generation of water protectors!

We couldn't be more thrilled with the results of our 2020 internship and student learning opportunities!

Thanks to generous annual donations to the *Patricia Dutmers* and *Elva Witler Memorial* Funds and Grants from the *Grand Traverse Regional Community Foundation* Land Use and Conservation and Planning Endowment and the *Edward and Mikiko Williams Foundation*, the GLA was able to **sponsor** a total of **3 interns** in 2020!

NMC senior *Holly Wright*, MSU junior *Evan Fink* and Leelanau School senior *Cecelia Denton*, collectively contributed over **450 hours** to the GLA and earned free of charge **4 college credits**. One of the interns was able to qualify for over **\$120,000** in college scholarships including the Michigan Lakes and Streams Association **Megan E. Cook Memorial Scholarship**. Her experience as a GLA Intern was what set her apart from other applicants.

Student opportunities didn't end there. To wrap up the 2020 season, GLA staff, interns and volunteers provided over **40 hours** of direct teaching and field experience to **22 incoming Northwestern Michigan College Freshwater Studies majors**. Students learned about the Glen Lake Guardian Program, the proposed Overlay District, water quality monitoring and research and assisted with invasive species mapping and removal. Four of these students have already submitted applications to be 2021 GLA interns and have applied for a **Michigan Student Research Grant** to help fund GLA invasive species programs.

> Wouldn't you like to help ensure this valuable experience continues into the future? Contact us at glenlakeguardians@gmail.com.









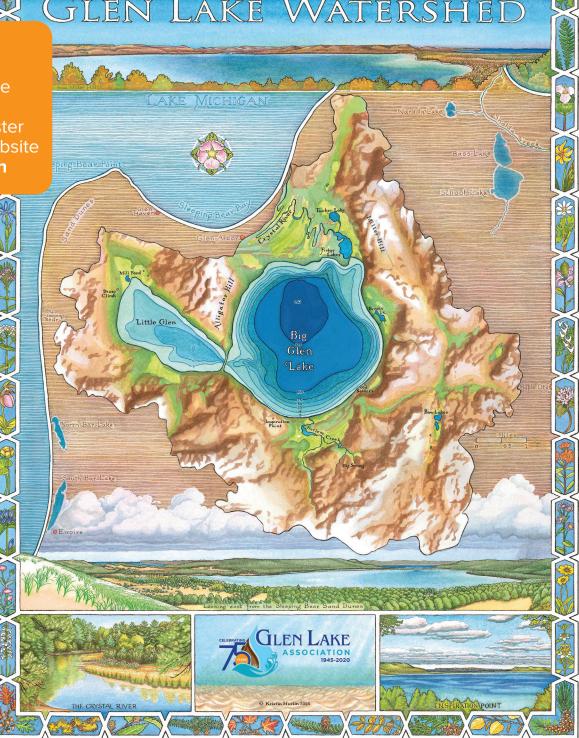
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"It's All About the Watershed!"

When it comes to protecting water, the GLA knows it's all about the watershed. Two important watershed wide protection initiatives are underway, and our members are there to offer time and support. Learn more on the GLA website about the **Watershed (Management) Protection Plan** and the **Glen Lake-Crystal River Watershed Overlay District**. The GLA helped to secure a **\$25,000 grant** to update the **2009 WMP** and with work scheduled to be completed by 2022. A proposed **Overlay Zoning District** with enhanced water protection features has moved into the review phase with our Township Planning Commissions and is being met with positive response. **More good news for the future of water!**



Purchase your Kristin Hurlin commemorative Glen Lake Watershed poster on the GLA website click **Shop 75th**



Development Committee and 75TH Campaign Final Report



Development Committee

The goal of the Development Committee is to provide long term financial stability for the Association, enabling the preservation of our fragile natural resource for future generations through supporting our watershed protection programs.

75th Campaign

In 2020, honoring a significant anniversary for the Glen Lake Association, the Development Committee sponsored a fundraising campaign for **75 years of protecting the Glen Lake/Crystal River Watershed**. Contributions were dedicated to our Watershed Scientific Research and Monitoring staff position currently held by Rob Karner, who has been with the

GLA for 40 years! The goal was to match \$75,000 for a total of \$150,000. Three generous Association members stepped forward each contributing \$25,000 to start the campaign. Our membership not only met the challenge, they, exceeded it. As of December 31, 2020, our members donated over \$200,000! The Glen Lake Association offers our most sincere thanks to our donors who continue to support the Association and our important research and educational programs.

A special thanks to the Development and 75th Anniversary committees who volunteered their time to make this campaign and Anniversary celebrations tremendously successful.

Development Committee

Co-chairs-Tom Dutmers, Lori Lyman

- Sue Besio Elizabeth Carr David Cassard Richard Chormann Tricia Denton Kris Fishman David Herr
- Stephanie Joseph Rob Karner Stan Kryder Charles Ofenloch Dee Smith Bill Witler

75[™] Anniversary Committee

Chair-Lori Lyman

Tricia Denton Larry Faulman Susie Haley David and Susan Haughn Sallyanne Morris Ginny Rockwood Dee Smith Pat Vredevoogd Combs

GLA 75th Anniversary Donors

\$25,000

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\$10,000

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\$9,999 - \$5,000

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Denton, Tricia & Shawn



Funding the Future of Water- 2020 Donors

The Glen Lake Association is honored to recognize our 2020 Donors and Guardians. We are deeply grateful for their commitment to protecting this unrivaled place and its waters.

GLA Legacy Members-\$100,000 or more in Lifetime Giving

*Besio, Greg and Sue *Knight, Joanne *Schilling, Richard and Barbara

GLA Patrons - \$50,000 or more in Lifetime Giving

Andrews, Charles Campbell, Brian and Mary *Chormann, Richard and Carolyn Dean, Diane *Finnegan, Paul and Mary *Gosiger Foundation *Hoagland, John and Carolyn *Lanphier, Edward and Cameron *Sprouse, Joanne

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Honorariums and Memoriams

In memory of Tom Aylsworth JoAnne Beare Lee and Carol Bowen **Carolyn Bumgardner** Jim and Velma Dorsey Tom and Monica Dutmers Dan and Magee Gordon Gary and Christine Johnson Larry and Anne Krawczak Bruce and Anne Lichliter **Bob and Sue Palmer** Linda Peppler Ken and Cindy Rosiek Gary and Velma Sheffer Duane and Chris Shugart **SSI Surveying Solutions**

In memory of Patricia Dutmers Jim and Susan Dutmers Tom and Monica Dutmers

In memory of Ronald Fornowski

David and Dawn Baldwin Robert and Felicia Bloom John and Ann Davey Larry and Anne Krawczak Pat and Sharon Oriel Frank and Marie Pfeifer Robert and Sharon Snell Glen and Mary Stewart

In memory of Norman Knudson Mark and Patti Knudson

In honor of Charles Lanphier Patton Elizabeth Christoforetti

In memory of Thomas Peppler Janet Peppler

In memory of Greg Warnes

Jim and Velma Dorsey Susan Eggl Robert and Susan Johnson Rose M. Laing Kristin Leach Pat and Deb Miller David and Diane Taghon

In memory of Elva Witler Bill and Rita Witler

*Indicates these individuals, businesses and organizations have also made the commitment to be Glen Lake Guardians!



GLA Participates in Cutting Edge Multi-Lake Septic Study with International Partners



The **2020 Septic Study** that examined **15 sites** in our watershed revealed mostly good news. Using DNA technology to identify septic bacteria in well and lake water, a small percentage of samples showed connectivity to septic influences in drinking and recreational waters. Each of the 15 sites were provided with their confidential results.

This summer, heat sensors to detect septic failure will also be used to test the original 15 sites along with 15 new sites. 2022 will add 15 more sites for a total of **45 sites** that will be combined with results from other lakes in an international research study.

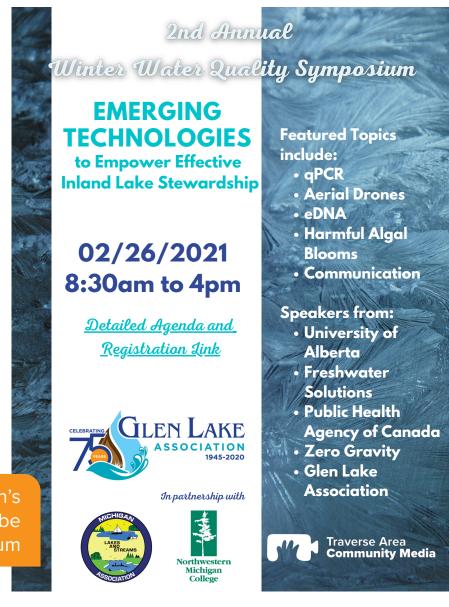
Learn more by attending the GLA Sponsored Second Annual Winter Water Quality Symposium.





Glen Lake Association's septic research will be featured at Symposium

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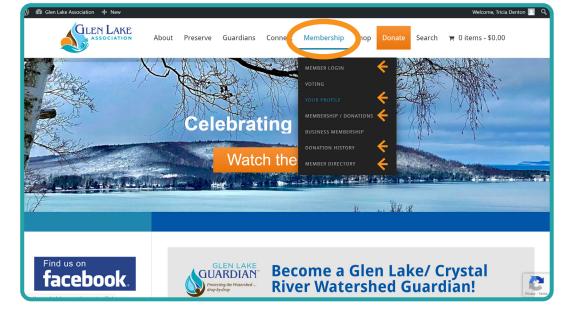
The Glen Lake Association Needs You!

These are extraordinary times, Thank You for standing with us! For more than 75 years, our members have helped us fulfill our promise to preserve and protect the Glen Lake-Crystal River Watershed. Challenges remain, make your

Membership Donation today! Supporting at the \$250 level or above provides the necessary revenue to continue our important water protection efforts and remain a leader in education and research.

Members, Check out the **Membership** tab on the GLA website to: Login, update Your Profile, check your Membership / Donations status, access your **Donation** History, and peruse the Member Directory.

> Together we will move forward into the next 75 years and beyond!



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GLEN LAKE ASSOCIATION OFFICE

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GLEN LAKE ASSOCIATION WEBSITE

glenlakeassociation.org Office email: glenlakeassociation@gmail.com Guardian email: glenlakeguardians@gmail.com

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P.O. Box 551 | Glen Arbor, MI 49636

SAVE THE DATE!

Annual Member Meeting Thursday, August 5

Emerging Technologies -Empowering Effective Inland Lake Stewardship

A Virtual Water Quality Symposium Save the Date: Friday, February 26, 2021

For more information contact: glenlakeguardians@gmail.com



Hosted by