



# IT'S ALL ABOUT THE WATER



## Spring 2023

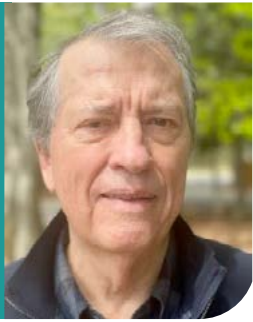
To preserve and protect the water quality, natural resources and quality of life in the Glen Lake Watershed through leadership, education and collaboration.

*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, Dave Hayes



I'm incredibly grateful for the opportunity to serve another year as President of the Glen Lake Association board. The dedication and expertise of the GLA staff, volunteers, and board members who work tirelessly on behalf of the Association never cease to amaze me, and I'm proud to be part of this organization. Even in the off-season, when the lakes and streams are covered

in ice, the GLA remains busy behind the scenes working to protect the Glen Lake/Crystal River Watershed. Our year-round work ensures that when watershed residents and visitors gear up to enjoy another "Pure Michigan" summer, the water is as clean and as healthy as ever.

At the Glen Lake Association, we like to say we're "*Keeping It Blue*." This cannot be done without the continued support of each and every one of you. Thank you for your time, talents, and financial contributions over the past year. Together, we will preserve and protect the watershed for future generations to come.

Under the direction of our watershed biologist, Rob Karner, efforts to prevent Eurasian Watermilfoil and other invasive species from entering the watershed remain steadfast. Rob's use of cutting-edge technologies, such as aerial drone surveys and DNA testing, play a key role in our monitoring strategy. We are most fortunate to have Rob's leadership and commitment on staff; his credentials, contacts, and knowledge-base are second to none.

Tricia Denton, our administrative coordinator, ensures that we stay well-informed of the numerous local, state, and riparian issues impacting the watershed. Tricia manages our member communications, Guardian program, and internship program, and we are so appreciative of her countless contributions to the GLA. Under Tricia's guidance, the GLA continues to be recognized as a top lake association in the state of Michigan, highly-regarded for its natural and nature-based shoreline features practices.

We are excited to welcome Victoria Velting as our new boat wash manager. Victoria is a graduate of Northwest Michigan College's Freshwater Studies Program and joined us already familiar with the Association's invasive species prevention program. Although Sallyanne has handed over the reins to Victoria, we are thrilled she has agreed to remain on staff as our office manager. We cannot thank Sallyanne enough for her years of dedication to the GLA as a stalwart leader of the boat wash operation.

Speaking of the boat wash, 2022 marked a milestone year with the GLA launching a three-year endowment campaign to fund its operation in perpetuity. Thanks to the leadership of Lori Lyman, Kris Fishman, and Tom Dutmers, the boat wash campaign is now well on its way to reaching its goal of \$1,250,000. You can read more about this exciting initiative on page 3, and if you'd like to be a part of this historical campaign, there's still time!

While we are grateful for the success of this fundraiser, we would be remiss if we didn't remind the GLA community that all the wonderful work discussed in this report comes with a high price tag. Our annual operating costs, in excess of \$250,000, are funded almost exclusively by membership dues and we are in critical need of renewals. If you haven't already renewed your membership this year, please do so at your earliest convenience and encourage your family and neighbors to do the same.

As you read through the remainder of this Annual Report, we hope you are impressed by and proud of the good work that's being done to monitor and test water quality, prevent invasive species, research and apply new technologies, and educate the Glen Lake community through homesite visits, discovery boat tours, and more. We thank you again for your support and partnership with the GLA in "*Keeping It Blue*!"

David M. Hayes,  
President, Glen Lake Association



# 2022 Boat Wash News: Keeping it Blue

A first in the state and third in the nation, for more than 26 years the GLA operated boat wash station has protected our waters from the invasive species plaguing area lakes. In 2022 with unanimous support of the GLA Board of Directors, an historic capital campaign was launched in an effort to fund the GLA operated boat wash in perpetuity. Called "Keeping It Blue", the 3-year campaign is well on it's way to meeting its \$1.3 million target, which when reached will generate enough interest to cover the annual operating cost of the Association's most costly and perhaps most critical budget item, the Boat Wash Program.

Looking to the economic challenges faced by other lake associations and inspired by the wise adage, an ounce of prevention is worth a pound of cure, past board president, Lori Lyman, assisted by the professional fundraising guidance of GLA member, Beth Stoner Weigand, helped to successfully initiate this challenging GLA fund raising effort, the largest in the Association's 77 year history. We simply can't thank them enough for their leadership, dedication and expertise. And to the following Committee and Boat Wash Task Force Members, Sue Besio, Tricia Denton, David Herr, Rob Karner, Stan Kryder, Edward Lanphier, Sallyanne Morris, Charles Ofenloch, Bill Witler, and chairs, Tom Dutmers and Kris Fishman, thank you very much for your time and financial support in working on this needed capital campaign.

With two years yet remaining in the endowment campaign, the GLA Development Committee remains active in its fundraising efforts and welcomes additional contributions. To learn more on how you can support "our first line of defense against aquatic invaders", contact co-chairs Tom Dutmers and Kris Fishman at [development@glenlakeassociation.org](mailto:development@glenlakeassociation.org)



New well goes in at GLA Boat Wash.

Ever mindful of stretching membership dollars, the GLA was able to secure a 2022 Northwest Michigan Invasive Species Prevention Network Grant to offset the cost of installing the much needed new well at the GLA operated boat wash at the Day Forest Road, DNR Public Launch.



Volunteer Bill Meserve with new AIS sign at Lake St.

Big thanks to super volunteers, Mike Litch and Bill Meserve for installing new Glen Lake aquatic invasive species (AIS) prevention signage at the Lake St road end. Leelanau Clean Water, Leelanau County's watershed collaborative group, was responsible for the 2022 MI Clean Boats, Clean Waters Grant to place AIS signs and tools on lakes throughout the county.



New GLA Boat Wash Manager, Victoria Velting and a few of the 2022 Boat Wash Crew. Welcome Victoria!

## 2022 Boat Wash by the Numbers

**4232** Total Boats

**971**  
Boats Power Washed

**692**  
Motors Flushed

**2**  
Mussels Found

**41**  
Aquatic Plants Found (9 Eurasian Watermilfoil)

**2**  
Refusing Inspection

**1,529**  
Info Sheets Distributed





# Water Quality 2022: The Results are Clear!

by Rob Karner, Watershed Biologist

## We're Keeping a Close Watch

Each year, the GLA participates in a water quality monitoring program which surveys over 200 Michigan inland lakes. As part of this program, the GLA collects and submits data on Big Glen, Little Glen, Fisher Lake, and Brooks Lake. The results of the survey provide an overview of current water quality, help spot trends, and enable comparison of our lakes to others throughout the state.

The GLA also conducts an annual analysis of water inlets on Glen Lake and Fisher Lake. We compare the water near an inlet to the water from the deep basin of a lake in order to determine if pollutants are present.

The GLA also regularly samples plankton to observe the diversity and quantity of these microscopic plant and animal species. As the base of the food chain, plankton are highly sensitive to changes in the water and are often the first indicators of water quality issues.



## The Results Are In

The 2022 water quality survey results showed that on average, lakes within the Glen Lake/Crystal River Watershed have high water quality relative to other Michigan lakes. The survey rankings were based on summer-time measurements of water clarity, excess nutrients, and algae. Big Glen and Fisher Lake both ranked very high, with water quality holding steady over time. Little Glen ranked in the middle of the pack, with good water clarity and nutrient levels, but elevated algae levels; and Brooks Lake ranked relatively low, although water quality remains stable.

The GLA's annual inlet study indicated that the quality of the water coming into our lakes is as good if not better than the quality of the water in the deepest parts of the lakes. This is very good news!

And the 2022 plankton study corroborated the water quality survey results, showing elevated algae levels in Little Glen. This is a bit of a concern, as elevated algae levels can produce "harmful algal blooms" which negatively impact aquatic life. The GLA is collaborating with scientists across the country and internationally to better understand the cause of this situation and to learn how to mitigate it.

## Lurking Invasives Threaten the Watershed

### In the Water

Aquatic Invasive Species (AIS) continue to pose a threat to the lakes and streams within the Glen Lake/Crystal River Watershed. Zebra Mussels and Japanese Koi are present in Glen Lake, and Curly-leaf Pondweed has been found in Brooks Lake. Although we have yet to see evidence of Eurasian watermilfoil or Starry Stonewort, they are present in the region and could easily be transmitted to our lakes via boat, paddleboard, or fishing equipment.

Fortunately, the GLA operates a free, pressurized hot water boat wash at the Day Forest Road DNR public boat launch. The boat wash is the first line of defense against AISs. The GLA also regularly monitors for Eurasian watermilfoil via aerial drone survey, snorkeling, and a state-sponsored rake-toss sampling program.

### On the Land

Invasive land-based plants threatening our watershed include Yellow Iris, Purple Loosestrife, Phragmites, and Coltsfoot. The GLA's diligent eradication efforts, alongside those of GLA volunteers and industry professionals, have been successful — we've seen a significant reduction in populations of these invasives along the shorelines.

## Looking Ahead to the Future

The GLA is continually exploring new technologies for measuring water quality parameters. One in particular, eDNA, could prove to be a valuable tool for monitoring the presence of: human bacteria from septic systems, aquatic invasive species (including Eurasian watermilfoil), and harmful algal blooms. We are excited to learn more about this emerging technology and how it can help us better preserve and protect our watershed.

# 2022 Creel Survey

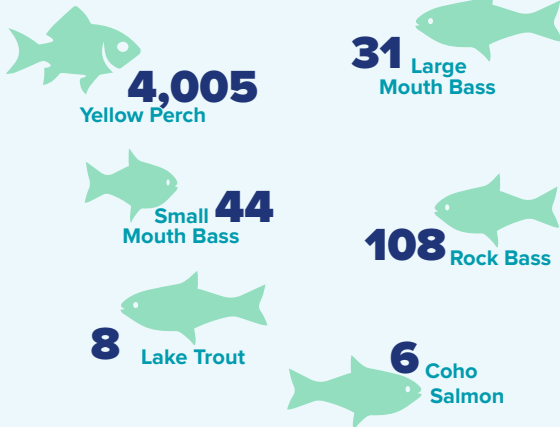
by the **Numbers**



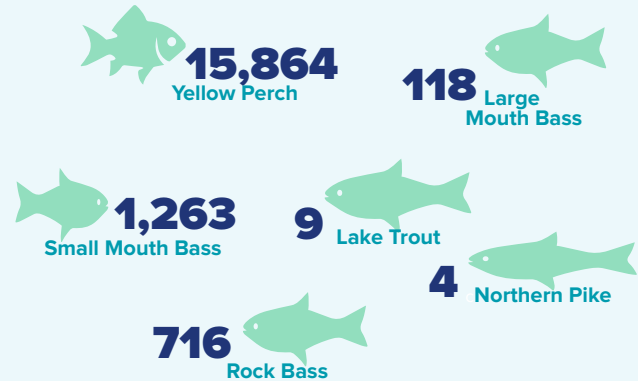
**2234**  
Hours Fished

**992**  
Anglers

## Harvested (kept)



## Released (what they threw back)



The GLA Boat Wash serves as an ideal location for sharing educational information on water quality and protection, and data collection from anglers. The fishing data is shared with MDNR for the purpose of helping manage recreational and sport fishing. This digital "Creel Survey", another first in Michigan for the GLA. In 2022, Glen Lake received a "bonus" stocking of Rainbow Trout as a result of our data collection efforts.

## Cisco, Oxygen, and the Cold Water Connection

The health of the Big Glen fishery is dependent on a process called "overturn". Just twice a year, in the spring and again each fall, changes in surface temperature and water density cause Big Glen to mix from top to bottom. Surface water sinks bringing oxygen rich water to replenish the oxygen depleted water at the bottom.

But, when spring arrives early and warm fall weather lingers longer, the overturn can't come soon enough for the increasingly rare Cisco. This species can't survive without cold, oxygen rich water.

Recent measurements from Big Glen indicate that oxygen levels in the deep basin are being impacted by the extended period from spring to fall overturn. Only time will tell if Big Glen can withstand the impacts of shifting weather patterns and continue to support Cisco.





# The Watershed Wire: Study Results Are In

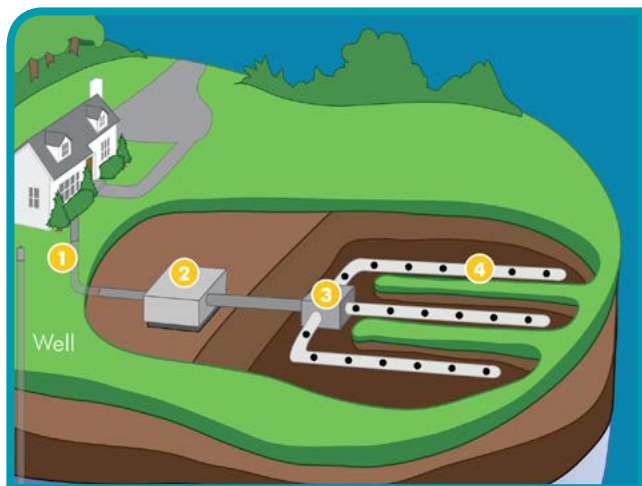
## 3-Year Septic System Research Project

The Glen Lake Association is proud to announce the completion of a 3-year research project studying the influence of septic systems on drinking water and lake water. The study was funded and facilitated by the GLA and required collaboration among 45 Glen Lake property owners, Freshwater Solutions LLC, and

award-winning Professor Dr. Patrick Hanington of the University of Alberta.

Using cutting-edge drone infrared technology and DNA analysis, the study set out to determine whether ground (well) water and surface (lake) water was contaminated by septic system bacteria. Research results suggest that, in fact, septic waste can and does contaminate water in our wells and lakes. While most water samples were not contaminated, a few positive samples confirmed a causal relationship between septic systems and water quality. The results of this study were reviewed by the Leelanau County Board of Commissioners, which adopted a new County wide septic ordinance to help protect Leelanau County watersheds.

**The opportunities to apply new and emerging technologies to watershed protection efforts are vast! If you are interested in supporting upcoming projects or technologies, please email [glenlakeassociation@gmail.com](mailto:glenlakeassociation@gmail.com).**



## 2022 Crystal River Health Study Shows Positive Results

The 6.2-mile-long stretch of water connecting Glen Lake to Sleeping Bear Bay is known as the Crystal River. It is surrounded by wetlands and home to a myriad of plants and animals. Did you know that more than 15,000 boats float down the river each year? Meandering down the Crystal River's clear, shallow waters via kayak or canoe is one of the best ways to connect with our watershed.

The Glen Lake Association regularly monitors the health of the Crystal River to stay abreast of water quality changes. Part of these monitoring efforts includes funding periodic research studies to evaluate and quantify the health of the river. Each time a study is performed, a "health index" is calculated based on the diversity and quantity of aquatic species. By tracking this health index over time, we can spot trends and respond quickly to changes if necessary. 2022



marked the second time a study was completed, and the results show that the Crystal River is in excellent health! We attribute this healthy state to the protection provided by the surrounding wetlands. The wetlands act as a natural filter, absorbing pollutants from surface water runoff before they can enter the river.

**If you would like to support future Crystal River health studies, please email [glenlakeassociation@gmail.com](mailto:glenlakeassociation@gmail.com) and let us know!**





# 2022 Updated Shoreline Survey

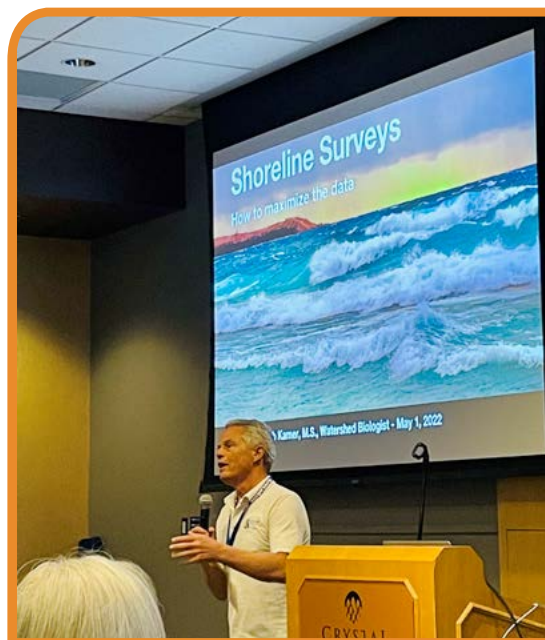
## GLA Conducts New Shoreline Survey in 2022

Best Management Practices, or “BMPs”, refer to actions, practices, and behaviors that are considered water friendly. Examples of BMPs include maintaining natural shorelines, replacing seawalls or riprap with bio-engineered materials, and avoiding “beach sanding”, or the creation of artificial beaches. BMPs are essential to keeping the lakes and river clean and healthy.

Glen Lake and Fisher Lake are two of eleven lakes in our region participating in periodic shoreline surveys to quantify BMPs. These surveys involve the collection and analysis of high-definition video, captured via drone along 22 miles of Glen and Fisher lakeshore. Images are then digitized, enabling both invasive species monitoring and comparisons of BMPs over time.

We are happy to report that the 2022 survey continued to rank Glen Lake and Fisher Lake among the top lakes in the region for BMPs.

Help keep our lakes clear and blue by adopting best management practices on your property! If you would like to request more information, or to schedule an on-site consultation, please email [glenlakeguardians@gmail.com](mailto:glenlakeguardians@gmail.com).



Rob Karner presents session on shoreline survey techniques at the 2022 Michigan Lakes and Streams Association Annual Conference.



# 2023 Discovery Boat Season Announced

The Discovery Boat Program provides a hands-on educational opportunity to join watershed biologist Rob Karner and assistant biologists Laura Wiesen and Joe Blondia onboard a 22-foot pontoon boat cruise of Glen Lake. The curriculum varies each week and is tailored to the interests of the participants of each session. Topics range from discovering how the lakes, wetlands, streams, and surrounding hillsides were formed by glaciers, to the chemistry of the water, the biology of the plants and animals, the ecology of how all the parts work together and finally, community partners and political forces at work within our watershed. The life cycle of swimmer's itch and prevention of it are also covered.



Learning aquatic plants with Rob Karner.



Hands on learning for every age on the Discovery Boat!

## Book your tour early!

Six sessions will be offered:

July 7: 10am and 12:45pm

July 14: 10am and 12:45pm

July 28: 10am and 12:45pm

Watch your GLA eNews for more details and to purchase tickets.

## Swimmer's Itch Prevention is Key!

### 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
- ◆ Use a kid friendly wading or "**kiddy pool**" vs. using shoreline lake water for small kids to swim in

## 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.

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!







# We are all Guardians of the Watershed

While we are all Guardians of the watershed, the Glen Lake Association annually recognizes a select few who go above and beyond and serve as examples for us all. The 2022 Stewardship Award went to the Shoreline Restoration Project of the Komendera and Murray/McDermott families. Their two adjacent properties, squeezed onto a narrow footprint of land on the northwest side of the Narrows bridge, take the brunt of the waves propagated by prevailing southwest winds and of a steady stream of boaters.

The high-water level of three years ago had their shoreline rapidly disappearing and the Komendera's verged on panic given the proximity of their home to the lake. Their panic turned to sticker shock when they got a quote for emergency riprap. To make matters worse, they couldn't get any attention from contractors or the State of Michigan, which were busy permitting projects to keep homes from falling into Lake Michigan. Thankfully, a neighbor suggested they contact the GLA. That began a nearly three-year process ultimately resulting in bioengineering with liner, fill, coir logs, native plants and fieldstone, restoring 6 feet of depth to their shoreline.

Gaining approval for reclaiming shoreline is unheard of in the permitting world, but because the families had the assistance of the GLA to gather historical images and were able to document the loss, it was allowed. Today they are growing shoreline and adding sand to their bottom lands for a fraction of the cost and maintenance of riprap or shoreline hardening. It goes to show, the quick fix isn't always the most cost effective or environmentally sound.

Next time you cruise under the Narrows Bridge, check out the approximately 150ft of natural shoreline from the bridge north and the more than 200 feet of bioengineered shore on Little Glen, full of beautifully blooming native plants. You may even spot the Great Blue Heron that has adopted the shore as his new favorite fishing spot, a welcome replacement for the geese that formerly plagued the lawn and even front porch of the Komendera home!



*Longtime GLA Members and true Glen Lake Guardians, Dave and Gail Komendera, Molly Murray and Anne McDermott, 2022 Glen Lake Association Stewardship Award Winners.*

The hope is that through these awards, ecologically responsible development along lakeshore and riverbank will become the norm, not the exception. Examples of award categories include:

**Friendly Protection Strategy:** For a governmental unit that creates an ordinance or code that helps preserve the environmental integrity of our lake and river systems.

**Lake-Friendly Home Construction:** For a homeowner or contractor who builds a new home or reconstructs an existing building while preserving environmental integrity.

**Lakescaping or Riverscaping:** For a homeowner or contractor who uses native vegetation and mostly natural materials such as bioengineering and properly sized field stone to landscape waterfront property that comply with zoning rules and goes even further to protect the shoreline and improve water quality.

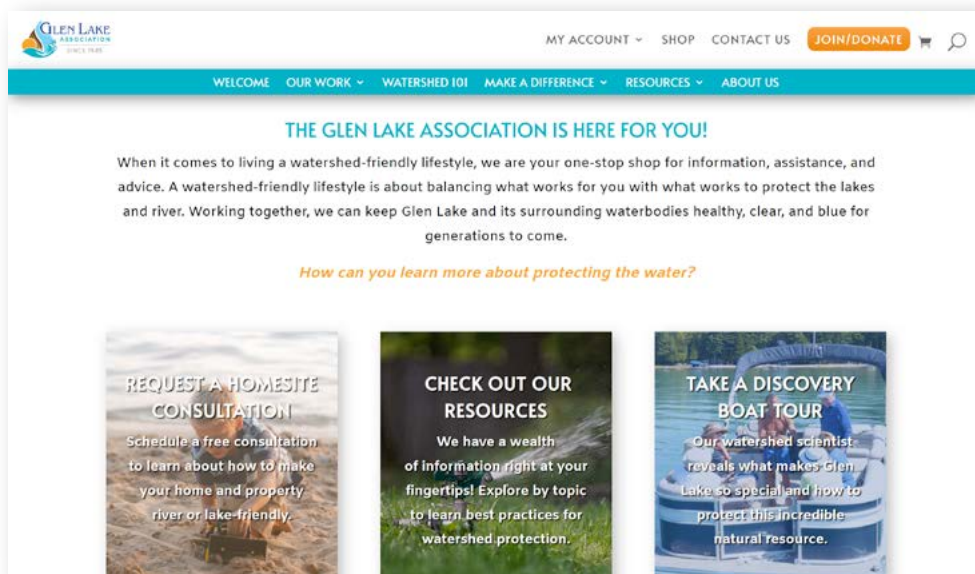
To learn more on how to be lake friendly visit Be a Shoreland Steward - Michigan Shoreland Stewards ([mishorelandstewards.org](http://mishorelandstewards.org)), then "RATE YOUR SHORELAND" to get a customized plan for improving your lake friendly score. Follow the lead of past GLA Stewardship Award winners and contact Glen Lake Guardian Ambassador, Tricia Denton at [glenlakeguardians@gmail.com](mailto:glenlakeguardians@gmail.com) to schedule your own in person consultation.



*Protecting the Watershed ...  
drop by drop*



# New GLA Website Launched October 2022



Thanks to the tireless commitment of GLA Board Member and Communication Committee Chair, Jennifer St. Julian, the long-awaited new GLA website successfully launched in the fall of 2022.

We can't wait for members to explore. Watch future member eBlasts as we highlight the different areas of this wonderful new resource.

As always, contact [glenlakeguardians@gmail.com](mailto:glenlakeguardians@gmail.com) for any assistance you may need in navigating the new site. We are here to help!

## Supporting the Next Generation of Water Protectors

When Emma Dutmers joined the GLA team the summer of 2022 as an intern, she had just finished her junior year at Hope College in Holland, Michigan where she was studying Communications and Environmental Studies. She jumped in wherever needed assisting with communications and learning and educating on board the Discovery Boat with Rob Karner.

Emma had this to say about herself...*I grew up in Traverse City, Michigan and attended Traverse City Central High School. My family spent summers at our family compound, Dunns Farm. Growing up at "The Farm" as my cousins and I called it, created a strong passion and appreciation for Glen Lake and the outdoors. That passion for the environment has only grown with age. I am beyond excited to be given the opportunity to advocate for, educate about, and highlight the preservation efforts of Glen Lake, a place that I hold near to my heart.*

Sincerely,

Emma Dutmers,  
GLA Summer 2022 Intern

Emma graduated with Honors from Hope College on May 6, 2023. Congratulations Emma!



2022 GLA Intern Emma Dutmers on board the Discovery Boat and young Emma with her dad at "The Farm"

**Special Thanks** to those whose generous annual donations to the Patricia Dutmers and Elva Witler Memorial Funds make the GLA Intern Program possible. The GLA Internship Program is funded entirely by the generous donations of our members. Contact [glenlakeguardians@gmail.com](mailto:glenlakeguardians@gmail.com) for more information on how you can support this invaluable GLA Initiative.





# 2022 Water Level Committee Annual Report



The Water Level Committee (WLC) was created pursuant to a lawsuit between the Crystal River group and the GLA after the river was shut off when the new dam was being constructed in 2003. A Technical Committee was also created as an oversight organization.

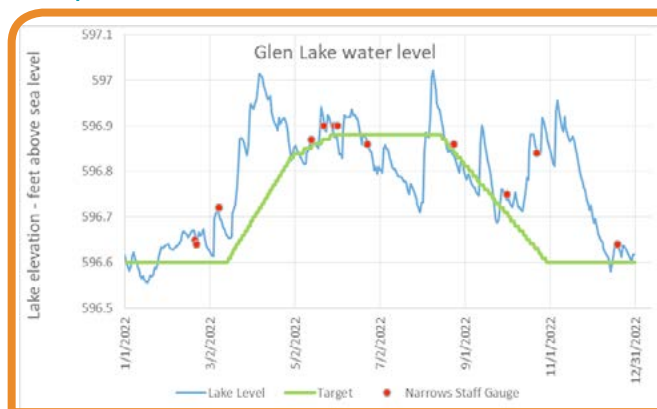
The WLC has 4 voting members and 12 alternates. Members: Alan Kasper, John Kassarian, Cal Killen, Bill Meserve (Chair) Alternates: Rick Fink, Greg Halik, John Lund, Vic Peirce, Dave Pejsa, Vik Theiss, Matt Wiesen, Jeff Gietzen, Amy Peterson, Rob Meyer, Dale Dejager, Bob Dekorne.

Most of the members and alternates take turns to be weekly captains with authority to monitor lake level and Crystal River flow rate and adjust the Crystal River Dam as necessary to maintain court ordered water levels. This involves daily review of our website to view Glen Lake water level and Crystal River flow rate and twice weekly visits to the dam to inspect the area and read the staff gauge. The dam has two gates which can be raised or lowered to change the flow rate.

The GLA website serves as a repository for data about the lake level and Crystal River flow. The data on the website comes from a system of pressure transducers, data loggers and modems at the Glen Lake narrows bridge and at the dam. This system, developed by Cal Killen, records water level and water temperature. At the lake, a pressure transducer near the bridge about 3.5 feet below the surface is converted to lake elevation in feet above sea level. The pressure transducer output is calibrated to a surveyed staff gauge at the bridge. At the dam, a pressure transducer about 2 feet under the surface is converted to water level in front of the dam and combines data about the dam setting to calculate flow over the dam. These two systems provide data to our website which allows the creation of graphs to show current and historical lake levels and river flow.

The graph 1.1 was created from the website: it shows the lake level for the past year versus the Court ordered target level. Rain, snow, and evaporation drive the lake level off target often. The green line is the lake level target, higher in the summer to facilitate boating and lower in the winter to mitigate ice damage. Red dots are readings of the staff gauge attached to the bridge. These readings taken when the lake is dead calm, show that the readings from the pressure transducer remain accurate.

Graph 1.1



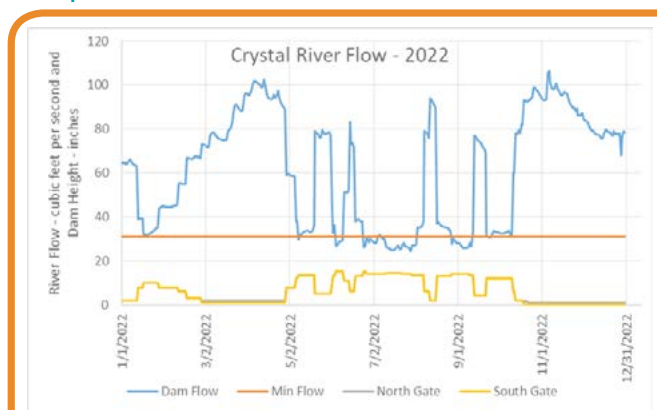
An item of note in graph 1.1 the spike in lake level in April is a record high above target since we began logging lake level. The dam is only one factor in determining lake level.

The next graph 1.2 is the river flow versus the minimum flow allowed by the Court decision.

Note that there are times when the river flow goes below the minimum allowable flow. This was due to a technical error in computing the flow and has been corrected for the future.

The WLC made 30 changes to the dam setting throughout the year. Some of these were very small changes to moderate dam flow and some were big changes in response to heavy rain events.

Graph 1.2



The WLC Chair writes quarterly reports to the 13th District Circuit Court, Judge Kevin Elsenheimer. These reports detail our strategy for maintaining lake level and river flow to the requirements. The WLC also reports twice a year to the Technical Committee. The Technical Committee consists of representatives from the GLA, Glen Lake, Crystal River, National Park Service, County Drain Commissioner, and Michigan Department of Environment, Great Lakes, and Energy (EGLE). The Technical Committee submits an annual report to the Court.

Within the WLC a Technology Committee has been created. This committee has tested new technology instrumentation on Hatlem Creek and the Crystal River and is always on the lookout for more cost-effective, reliable methods for collecting data and monitoring water level and temperature. Recent innovations include an online warning system to alert WLC members to plugged culverts and a NPS permitted monitoring system to estimate summer kayak and canoe usage on the Crystal River.

# 2022 Donors: Funding the Future of Water

We are proud to recognize the more than 500 individuals, families, and organizations that contributed to our success in 2022. Without your annual membership dues and contributions, we would not be able to fund essential water monitoring and education efforts. We also recognize our "Keeping It Blue" boat wash donors, who support our first line of defense against aquatic invasive species. Contact [development@glenlakeassociation.org](mailto:development@glenlakeassociation.org) on how you can be a part of this important campaign.

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

- L \* Greg and Sue Besio
- L \* Paul and Mary Finnegan
- L \* Knight Family - Joanne, Lester and Becky, Steve and Anne, Anne Davidson, Jennifer and Andrew Beckmann
- L \* Andrew R and Janet F Miller Foundation
- L \* (Dr. and) Mrs. Richard Schilling
- L \* Sprouse Family Charitable Trust

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

- L \* Brian and Mary Campbell
- L \* Richard (and Carolyn) Chormann
- \* Diane Dean
- \* Gosiger Foundation
- L \* John and Carolyn Hoagland
- L \* Edward and Cameron Lanphier
- L \* Pierce Family Charitable Foundation
- \* Tuktawa Foundation
- \* Peggy Zukin Family

## 2022 Total Giving

### \$10,000 and above

- Anonymous
- Anonymous
- Beith, Carsten
- L \* Besio, Greg and Sue
- L \* Campbell, Brian and Mary
- L \* Cassard, David and Cara
- L \* Chormann, Richard
- Cochran, George and Barb
- Cook, Doug and Diane
- L \* Finnegan, Paul and Mary
- L \* Fishman, Ken and Kris
- Gordon, Dan and Magee
- \* Gosiger Foundation
- L \* Hayes, David
- L \* Knight, Joanne
- L \* Lanphier, Edward and Cameron
- L \* Lanphier, Jonathon
- L \* McCally, Woody
- \* McDermott, Ed and Betsy
- L \* Miller, Andrew and Janet
- L \* (Pepler John)
- L \* Pierce Family Charitable Foundation
- L \* Sprouse Family Trust
- L \* Tubergen, Jerry and Marcy
- L \* Unge, Timothy and Susan
- \* Peggy Zukin Family

### \$9999 - \$5000

- \* Dean, William and Doreen
- LH \* Dutmers, Jim and Susan
- L \* Hughes, Kay
- L \* O'Malley, Richard & Anne

### \$4,999 - \$1,000

- L \* Alton, Bruce and Christie
- \* The Barton Family Foundation
- L \* Becker, Dennis and Carole
- \* Berlacher, Bob and Julie
- Bohmer, Dave and Lynn
- L \* Boles, Bob and T
- \* Cheney, David and Judy
- \* Chesterfield, David and Linda
- Christensen, Greg and Michelle
- Coleman, Dave and Marilyn
- \* Denton, Tricia and Shawn
- Leelanau Getaway
- Doepke, William and Jane
- Duff, James
- L \* Dutmers, Tom and Monica
- Dutmers, Chad and Macaire
- Findlay, Eric
- Frank, Edmund and Eustacia, Valerie
- L \* Haley, John and Carrie
- L \* Hamilton, Jeff and Diane
- Hare, Ross and Jayne
- Helms, David and Andrea
- L \* Herr, David and Maureen
- Johnson, Jeff
- \* Jorgensen Markevich, Lisa
- Joutras, Rick and Meta
- Kilrea, Debbie
- Knight, Lester and Becky
- \* Krapohl, Kaye Krapohl Fine Arts
- L \* Kryder, Stan and Joy
- Lott, Bill and Karen
- \* Looze, Adam Royal Blue Web
- Miller, Larry and Melisa
- Nelson, Suzanne and Michael
- \* Northwest Michigan Invasive Species Network
- \* O'Brien, Jerry and Lisa
- LH \* Offenloch, Charles and Sara
- Oliver, Jim and Diane
- L \* Quaderer, George and Carol
- Quigley, Bill and Susannah
- Riegel, Al and Kay
- Rockwood, Bill and Donna
- \* Rose, Marcia
- Shook, Steve and Rachel
- Shugart, Duane and Chris
- Dorsey's on Glen Lake
- \* Smith, Patrick and Katie
- L \* St. Julian, Joe and Jennifer
- Tepoorten, Duke, David and Melissa
- L \* Theiss, Vik and Susan
- \* Turner, Tom and Pat
- Wakeling, Stephen
- Ward, Curt and Kristy
- \* Westbay, Tim and Jacki

- \* Wille, Tom and Sally
- L \* Witter, Bill and Rita
- \* Wright, Holly Habitat Story
- \* Zukin, Chris

### \$999 - \$500

- Atherton Foundation
- \* Barnell, Chuck and Kay
- Barry, Patrick and Cheryl
- \* Barton, Mr. and Mrs. James
- Bates, Chapin
- Benson, James and Susan
- Bloom, Brian and Cheryl
- \* Felicia and Robert Bloom Charitable Foundation
- Chormann, Jim
- Davis, Deborah
- Duff, Mark and Kristin
- Glen Craft Marina
- Jones, Katharine
- Kelley, Dean
- \* Krawczak, Anne and Larry
- \* Leelanau Clean Water-Clean Boats, Clean Waters Program
- \* Leelanau Enterprise-Enterprise Printing
- H \* Lichliter, Bruce (and Anne)
- Mallon, Meg
- \* Marquis, Jody
- \* McDermott, Anne
- \* McElrath, Randy and Margaret
- \* Meyers, Ann
- \* Miller, Pat and Nancy
- Molten, Patricia
- Morris, Foltz, Sallyanne and Jim
- Murray, Molly
- \* Nugent, George and Marilyn
- L \* Oleson, Carl and Jackie
- L \* Peirce, Vic and Betty
- \* Pentilla, Roy and Elaine
- Pritz, Jane
- Reid, Douglas
- \* Spitzner, Lance and Ania
- \* The Little Garden Club
- Voran, Laurel, Laurel Voran LLC
- Ware, James and Sheila
- Wiater, Michael and April
- Windemuller, Mark and Carol
- Witler, Jason
- Wood, Chris and Sally
- \* Becker, James and Lynn
- \* Becker, Ron and Jane
- \* Beerling, John
- Bennett, Carolyn
- \* Bolen, Bruce and Jane
- \* Bosin, Tal and Betsy (Witler)
- Brady, Donald and Geraldine
- Brandt, Patty & Jeff
- Calder, Mac and Kate
- Camp Haven
- Chambers Haskins, Catherine
- Cloud, John and Linda
- \* Cochran, Corinne
- \* Combs, Pat and Guy
- Conzelman, James and Patricia
- Czerniawski, Ben and Kathy
- DeConinck, Timothy and Biruta
- DeKorne, Dale
- \* DePuy, Pamela and John
- Diggins, John and Karen
- \* Doran, Maureen
- L \* Doyle, James and Sharon
- Drumm, Charles and Catherine
- Duke, William
- \* DuPont, Andy and Olivia
- Egan, Tom and Rosemary
- \* Faulman, Larry and Nancy
- \* Fehrmann, Bob and Barb
- Fernandez, Lauren
- Fetzer, Wade and Bev
- L \* Fink, Richard
- Floody, Kenneth
- Geisler, David and Sharon
- \* Gietzen, Jeff and Georgia
- Northwoods Hardware
- Gigax, Larry and Julie
- \* Gordon, David and Penelope
- \* Goris, Greg and Cindy
- \* Gravelie, Scott and Ellen
- \* Gross, Raymond and Lynn
- Grover, Jeff and Lori
- Gula, Robert and Constance
- Hanson, David L.
- Hatherly, Christina
- L \* Haughn, David and Susan
- Hawley, Joan
- Hill, David and Susan
- L \* Hoagland, John
- \* Hoagland, Nancy
- \* Jacobs, Bruce and Judi
- \* Jeris, David and Laurel
- \* Johnson, Richard and Suzanne
- \* Johnson, Brad and Kristen
- L \* Johnson, Gary and Christine
- \* Joseph, Stephanie and Chris
- Karbowski, Angela and Joe
- Kasmersky, John and Heather
- Kasper, Alan and Teri
- Kasperek, Mike and Mary
- \* Kay, Dick (and Bonnie)
- \* Komendera, David and Gail

### \$499 - \$250

- \* Adler, Barry
- Agami, Lisa
- \* Backus, Joe and Barbara
- L \* Bagby, Sumner and Irene
- Barr, Tim Art's Tavern
- Bartlett, Bill and Janice
- Batterson, Bill and Nancy
- Baxter, Bill and Gwen





- Kovacs, Marisa  
Latto, Cozette, Joseph and Gary  
Leiser, David  
Liddy, Richard and Joanne  
H \* Litch, Mike  
Lombardi, Joe  
Lysaght, Pamela and Leon  
\* Manders, Mark and Karen  
Marty, Terry and Barbar  
McArthur, Brad and Leah  
McClintock, Sarah  
\* Miller, Joe and Angela  
\* Miller, Sandra  
\* Miller, Keith and Elaine  
\* Miller, Pat and Deb  
Miner, R John  
\* Morawski, Jerry (and Debbie)  
\* Morley, Dave and Cheryl  
\* Morley, Jay and Mary  
\* Novak, Bob and Mary Jane  
Ohlfs, Chuck and Judy  
Parks, Mary Anne  
Pearson, Jerry  
\* Peplinski, Neil and Heather  
\* Petersen Thomas and Jean  
Petro, George and Leslie  
Pope, Kip and Janet  
Potter, Randy and Sheila  
Ransick, Barry and Mimi  
\* Reder, Mark and Karen  
Reilly, Ellen  
Reyes, David  
\* Rivard, Kurt and Sally  
L \* Rockwood, John and Ginny  
\* Rockwood, Daniel and Jennifer  
Rogers, Ouzounian,  
Patricia and Michael  
\* Rycus, Judy and Jeffrey  
Segerlind, T Johnson  
and Sarah Jane  
Selkoe, Dennis  
Selkoe, Halpern  
Kimberly and Ben  
Siepker, Frank and Barbara  
Siepker, Frank Jr.  
Silvasi, Daniel and Linda  
Smith, Dana K.  
Smith, Lou and Karen  
Stege, Bill and Cherrie  
Stenback, Kirk  
*Stenbeck Builders, Inc*  
Strong Bucky and Michelle  
*Tamarack Cove Assc*  
Tefft, Forrest and Ann  
\* Trulaske, Sarah  
Udell, Tim  
\* Van Zoeren, Tom and Alice  
Vinyard, Matthew and JoEllen  
Walsh, Maleita and Matt  
Walton, John  
Ware, Don  
Weedman, Jeff  
Wiegand, Beth Stoner  
and Bruce  
Williams, Thomas and Sarah  
\* Yanover, LaRiviere, Jennifer  
and Stephen

## up to \$249

- Adams, Richard and Samantha  
Andres, Jim and Connie  
*Anonymous*  
Arnold, Harriet  
Augenstein, David  
\* Baad, Jack  
Balk, Martin and Melissa  
Banish, William and Rosemary  
\* Barber, Meg  
Barker, Bill and Donna  
Barr, Kelley  
Beghin, John  
Beier, Jane  
Beier-Scott, Linda  
Bell, William  
Bell, Labbe-Bell, Jim and Mary  
Bellows, Cynthia  
\* *Binsfeld Family Limited Partnership, LLC*  
Bird, Lowell and Joanna  
Boucher, Henry and Beatrice  
Boucher, Yvan  
Braly, Barbara  
Brammer, Lawrence and Beverly  
\* Budinger, (Dick and) Gay  
\* Buettner, Brig and Merrill  
Burke, William and Caryl  
Buttermore, Janet  
Calhoon, Theodore  
Calligaro, Paul and Julia  
Carleton, Dave and Leslie  
Cary, Rosemary  
Cassat, Becky and Jeff  
Celebrezze, Cat  
Chen, Kelvin and Carol  
Chick, Jeffrey  
\* Church, Sue  
\* Cioci, Margie  
Clark, Stephanie  
Climes, Gary and Theresa  
Coalson, Glen and Kimberly  
Coffer, Joe and Barbara  
Collins, Stephanie  
Connelly, W.C.  
Cushing, Jack and Karen  
\* Daniel, Marti  
Daniel, Russ and Cynthia  
Danielson, Sue  
Davis, Catherine  
\* Dean, Jeanine  
DeMeester, Lee and Maribeth  
DeVilbiss, Hefke, Paul and Karen  
\* Dixon, Melinda  
\* Dorsey, Jim and Velma  
\* Dotterweich, Andrew and Maria  
Douglass, Glen and Greta  
Dressel, Lori  
DuBrul, Michael and Susan  
Dumas, Patsy  
Dunn, Edwin and Kathleen  
Dykstra, Jim and Ann  
Ertl, Claire  
Faragher Wada, Betsy  
\* Faulstich, Kendall and Sarah  
Fenton, Christian  
Foley, Susan  
\* Ford, Fred and Karen  
Francis, Haley

- Frixen, Eberhardt and Mary  
Gale, Kelly, Catherine  
and Michael  
George, Chris and Noel  
Gettle, Mike and Missy  
Gideon, John and Lynn  
Giffin, Gerry and Ellie  
Glen Lake Surf Co.  
Good, James and Antoinette  
\* Gould, Berglund,  
Andrew and Vicki  
Gradolf, Ted  
Haas, Liz  
Haig, William  
\* Haley Family Partnership Trust  
\* Halik, Greg and Carol  
Hann, Andrew and Deborah  
Harrigan, Nancy  
Hasselbeck Edna and Michael  
Hawn, John and Margaret  
Heggen, Sylvia  
Heintskill, Melinda  
Heringhaus, David *Owls Nest*  
Heston, Bill and Jan  
Hickey, James and Bunny  
Hill, Helen  
Hohle, Dave  
Huesmann, Rowell and Penny  
Huntley, Rosalyn  
\* Jackson, Larry and Sarah  
Janata, Carver, Jeffrey and Susan  
L \* Johnson, Harvey and Amy  
Johnstone, Gregory and Jennifer  
Kanitz, Matt and Sarah  
L \* Karner, Rob and Barb  
Kausler, George  
Keuning, Cheryl  
LH \* Kramps, Joan (and Herbert)  
\* Kraus, Diane and Steve  
Krueger, Eric and Virginia  
LaHood, Jason E.  
Lalomia, Melissa  
Langhorst, Martin and Marsha  
Laycock, William  
Lee, Bruce  
Lennon, Kay  
Lentz, Cindy  
Lewis, Steve and Linda  
Lickiss, Hugh and Nancy  
Listecki, Robert and Lyn  
Lord, Lisbeth  
\* Lund, John and Barb  
L \* Lyman, Lori and Mike  
MacDonald, Paula and Tim  
\* MacKenzie, Rob and Maria  
\* Magoun, Borchardt,  
Anne and Bruce  
\* Marth, Robert and Janet  
\* Martin, John and Wendy  
*Martin Realty*  
Matulionis, Sue  
\* McCarty, Peg and Kevin  
McDonough, Virginia  
McKane, Daniel and Barbara  
McLaughlin, Lana  
McTigue, Patricia  
Mellas, Jim *Glen Lake Cottage LLC*  
Menacher, Tom  
Miller, Amarel, David and Irene  
\* Morris, Julie  
Mueller, J  
Newman, Sharon  
Nisbet, William and Cheryl  
Noel, Richard and Nicola  
Picard, Peter  
Plagens, Doug and Charlene  
Plaisted, Jeff  
Pottschmidt, Walter  
and Deborah  
Pullen, Tom and Kathleen  
Reder, Nick  
\* Rentenbach, John and Peachy  
Rice, James and Lois  
Ricker, Cacossa,  
Shawn and Steven  
Riday, Robb and Mary Lou  
Rife, Robert and Susan  
\* Rivard, Marcia  
Romeyn, *Wanderers Rest Condo*  
Rosensteel, Bruce  
Rosiek, Joseph  
Saylor, Sandra and Allyn  
L \* Schilling, Barbara  
Selby, Ben and Carolyn  
Seward, Kara  
Seward, Sheila  
Shaw, Donald and Sharon  
Short, Tim and Deb  
Smith, Larry and Roo  
Smith, Stoutland,  
Wendin and Page  
Smith, Deborah  
Soller, Stephanie  
Sorkin, Suzanne  
Sorley, Tamara  
Sprouse, Bradford  
\* Stanwick, Greg and Nancy  
Stazzone, Peter  
Stead, Robert and Petra

- Strauss, Tom and Kiki  
\* Suhajda, Janice  
Sullivan, Shook-Sullivan,  
Stephen and Sara  
Summers, Karin  
Sutherland, Susan  
Taylor, Joy  
\* Tefft, Susan  
Thoburn, Jim and Mary Beth  
\* Thomas Hart Family, The  
Tinnes, Lauren  
Tittle, Kris  
Tramitz, Melvin  
\* Velting, Victoria  
Wagner, Bruce  
Warburton, Harvey and Marilyn  
Ware, John  
Warner, Susan  
Weick, Mark and Lee  
\* Weinheimer, Jean  
\* Wepking, Chuck and Dorothy  
\* Wiand, Dennis, *Zero Gravity Aerial LLC*  
Wickland, John and Skye  
Widgren, M. and Beth  
Wiersema, Michael  
Wiersema, Morreale,  
Brent and Stephanie  
L \* Wiesen, Laura  
\* Wilcox, Kay  
\* Wolbrink, Paul and Vivian  
\* Worth, Dan  
Worthington,  
Richard and Cynthia  
Yates, Samuel  
Yera, Laura Lee  
\* Zarkowski, Pierce,  
Pamela and Dan  
Zerrenner, Karen and Doug

L Legends/Legacies  
H Honorary Member  
Keeping It Blue  
\* Glen Lake Guardians



## 2022 Honorary Member: Jim Dutmers

On rare occasion, the Board of the Glen Lake Association awards an Honorary Membership to those outstanding individuals whose commitment to the mission of the GLA goes above and beyond. They are the very kind of thoughtful individuals whose dedication over the years makes possible the innovative, groundbreaking water protection achievements of the GLA. In 2022, by unanimous support of the GLA Board of Directors, an Honorary Member Award was presented to Jim Dutmers for his outstanding leadership and commitment to the protection, preservation, and improvement of the Glen Lake/Crystal River Watershed.

Jim Dutmers is no stranger to working hard to “Keep it Blue”, Jim has grown up on the shores of Glen Lake. It could even be said that he has been a member since before he was born. He is a recruiter, motivator, mentor, and leader. His training started as the teen-aged foreman of a 12-person crew of his peers that worked summers at the family’s “Dunns Farm Resort” where the American Plan required cottage cleaning, cooking, waiting tables and maintenance every day of the season while meeting the high expectations of his grandmother, Sarah Dunn Johnson, who ran a very tight ship!

After earning his Notre Dame and MSU degrees, Jim followed in his father’s footsteps as a distinguished community banker where his goal-driven energy expanded to strong civic leadership and community building. It came naturally that Jim would bring these skills, abilities, passion, and family legacy to the Glen Lake Association through decades of service. Jim has worked tirelessly to recruit board members, volunteers, and donors to the GLA. He has served in many GLA roles over the years. Jim was a voting member of the Glen Lake/Crystal River Technical Committee for 14 years and was instrumental in the negotiations that led to the current cooperative functioning of that once contentious committee.

Perhaps most importantly, Jim recognizes the need for the long-term protection of the watershed. His role with the Glen Lake/Crystal River Watershed Protection Project Task Force as co-chair has helped result in better oversight of the proper functioning of septic systems in and around the watershed. He also led a multi-year initiative to protect our watershed and water quality through a proposed set of best-practice ordinances. Jim is dedicated to ensuring that future generations, including his grandchildren, (the 7th generation on the Lake), are able to enjoy the remarkable beauty of this place we all love. Jim is a “once in a generation” leader with an unequalled passion for Glen Lake.

*Thank You Jim!*



GLA President Edward Lanphier presents Jim Dutmers with the GLA Honorary Member Award.



This Honorary Member Award was presented to Jim Dutmers for his outstanding leadership and commitment to the protection, preservation, and improvement of the Glen Lake/Crystal River Watershed.



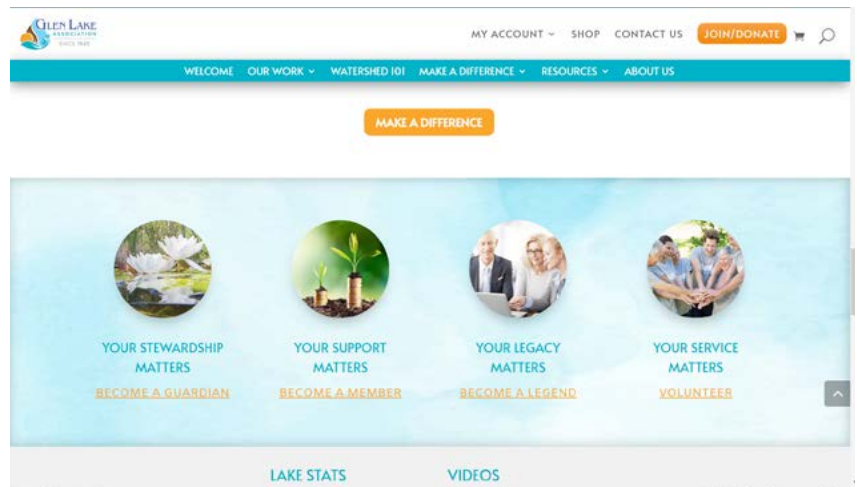
# Make A Difference: Renew, volunteer...

When you renew your membership or become a member of the Glen Lake Association, you help ensure the resources necessary to fund vital watershed protection programs each year.

Our most significant on-going expenses include water quality monitoring and research, invasive species prevention and control, and community-wide education to protect the health of the area lakes and river.

Support our mission today by joining others who share your love of Glen Lake and the Crystal River.

**“It will take us all to preserve and protect the watershed, now and for future generations”**



Together we can “Make A Difference. Learn more on our new GLA website <https://www.glenlakeassociation.org/make-a-difference/>

## Your GLA Board, Staff and Chairs

### OFFICERS

David Hayes	<i>President</i>
Stan Kryder	<i>Vice President</i>
Dave Cheney	<i>Treasurer</i>
Kris Fishman	<i>Secretary</i>
Edward Lanphier	<i>Past President</i>

### DIRECTORS

Tom Dutmers	Dick O'Malley
Rick Fink	Jen St. Julian
Woody Mc Cally	

### STAFF

Rob Karner, *Watershed Biologist*  
Tricia Denton, *Administrative Coordinator*  
Sallyanne Morris, *Office Administrator*  
Joe Blondia, *Assistant Watershed Scientist*  
Laura Wiesen, *Assistant Watershed Scientist*  
Victoria Velting, *Boat Wash Coordinator*

### COMMITTEE CHAIRS

Jen St. Julian/Dick O'Malley	<i>Communications/Website</i>
Edward Lanphier	<i>Community Relations</i>
Kris Fishman, Tom Dutmers	<i>Development</i>
Stan Kryder	<i>Finance and Investment</i>
Jim Dutmers	<i>Long Range Planning</i>
Woody Mc Cally	<i>Membership</i>
Edward Lanphier	<i>Nominating</i>
Tom Dutmers	<i>Quality of Life</i>
Bill Meserve	<i>Water Level</i>
Andy DuPont, Rob Karner	<i>Water Quality</i>

### PROGRAM CHAIRS

Victoria Velting/Tricia Denton	<i>Boat Wash/Invasive Species</i>
Tricia Denton	<i>Internship/Guardian</i>
Tom Dutmers	<i>Risk Management-Dam/Hatlem Crk</i>
Rob Karner	<i>Swimmer's itch</i>
Cal Killen	<i>Technology</i>
Rob Karner, Tricia Denton	<i>Watershed Protection Plan</i>
Jim Dutmers, Rob Karner	<i>Watershed Protection Project</i>

### GLEN LAKE ASSOCIATION OFFICE

P.O. Box 551 | Glen Arbor, MI 49636  
231-334-7645 | Fax 231-334-7470

Office email: [glenlakeassociation@gmail.com](mailto:glenlakeassociation@gmail.com)  
Guardian email: [glenlakeguardians@gmail.com](mailto:glenlakeguardians@gmail.com)

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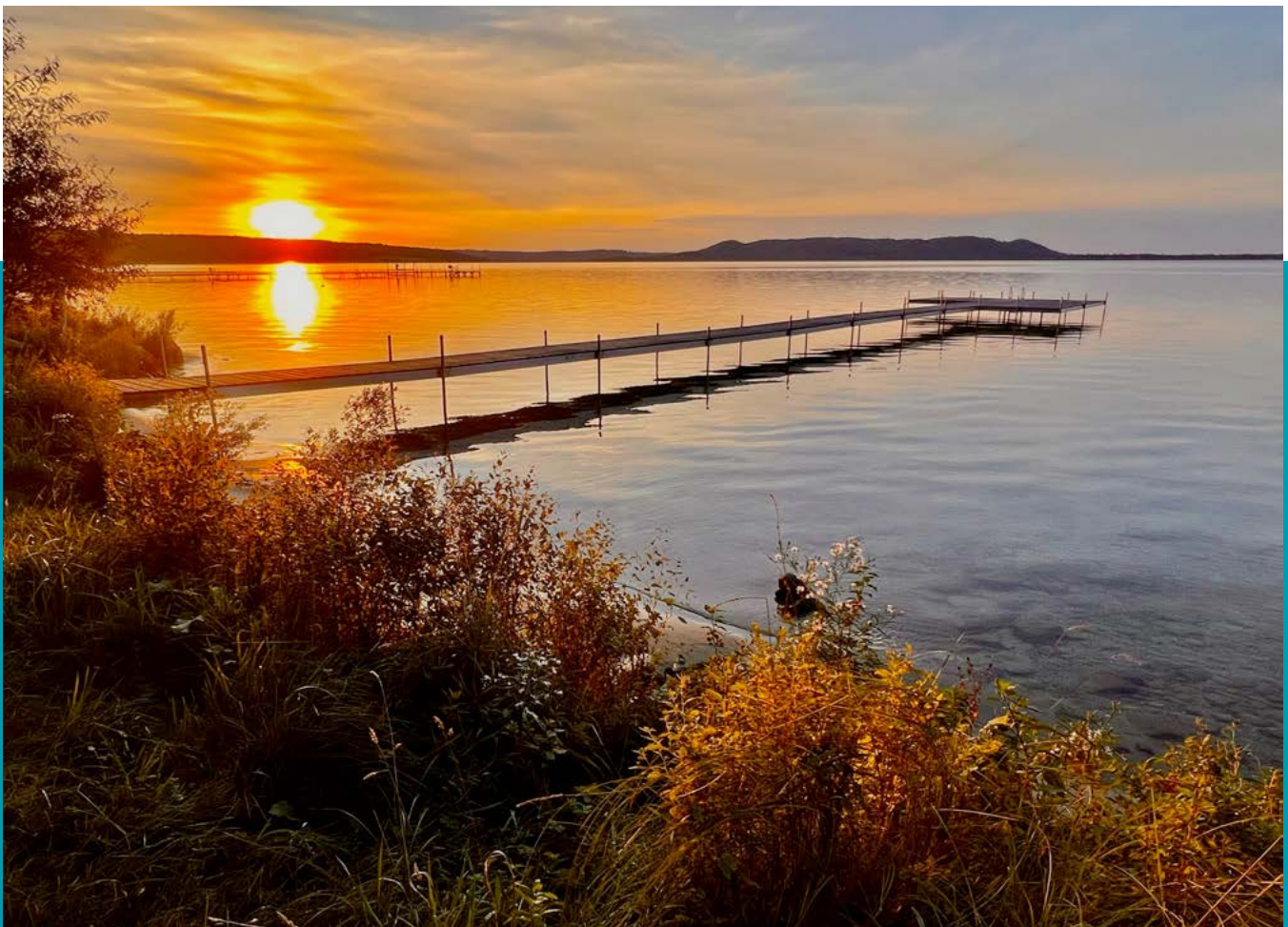


P.O. Box 551 | Glen Arbor, MI 49636

## SAVE THE DATE!

### 2023 Annual Member Meeting

Saturday, August 5  
9 a.m. Glen Lake School



*Protecting the Watershed...  
drop by drop*

How will you help secure the future?