

Round

North Long

# LAKE ASSOCIATIONS

FALL 2018



*Photo courtesy of Jennifer Goldstein*

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## FIRE EXTINGUISHER RECALL

**Many of us have fire extinguishers in our cabins  
(a good idea given our lack of fire hydrants) and we all have  
them in our watercraft.**

Kidde, a major manufacturer of fire extinguishers, is having a recall  
of many of its plastic handled home and marine fire extinguishers.  
Some may have been sold under different brand names.

More information can be found at  
[inmarmarketaction.com/kidde/Kidde284US](http://inmarmarketaction.com/kidde/Kidde284US)

Or use this QR code:



CAUTION

CAUTION

CAUTION



# President's Message | Round Lake

Mark Parish | President



Once again another summer has passed. I'm amazed how quickly the season came to an end after Labor Day.

The summer was very uneventful as far as the Round Lake Association and the Round Lake Improvement District are concerned. Due to the late ice out there was no curly leaf pond weed to be found anywhere based on the regular survey that Lakes Restoration took in the spring. The Round Lake District saved upwards of \$40,000 in weed treatment costs due to the lack of necessity to treat. However, we believe that spring 2018 was an aberration and fully expect that the treatment of curly leaf pond weed will be necessary in future years.

Bishops creek is somewhat easier to navigate due to the dredging that was done in the fall of 2016. The middle of the creek has good depth with the exception of the west side of the tunnel that extends under highway 371. The more shallow depth in that area is due to the inability to dredge in that location. There are two fiber optic lines, a natural gas line, as well as a sewer line that travel beneath the creek just west of the tunnel. Needless to say, no one is willing to do any type of digging in this area. The dredging permit issued by the DNR allowed removal of residue/sand not to exceed a width of 14 feet. We are exploring the possibility of getting permission to expand the dredged area a bit in order to make it easier for boats to pass each other when they meet.

For the second year the annual association picnic was held at the Nisswa

Community Center. Feedback has generally been good regarding the new location with some indicating that they miss it being held outside by the lake. However, the ease of using the community center along without the need to deal with the weather has made life a lot easier for the folks that are responsible for putting on this annual event.

The Teehive is in the process of putting the finishing touches on an online store for the Round Lake Association that people can visit to purchase tee shirts and sweatshirts with the round lake logo on them. We will email out an announcement when it is open for business.

As always, please feel free to contact any board member regarding any issues, concerns or ideas that the association should be looking into.

## Protecting White Pine From Deer

*Photo by Joseph OBrien, USDA Forest Service, Bugwood.org*



The impressive white pine is native to our area and once dominated Minnesota's landscape. It is a welcome addition after our recent blow downs.

But white pine, and especially the white pine buds, are a favorite food of deer, and need protection to discourage deer browsing. Repellents can be used, but more commonly bud caps and fencing are used to protect young plants.

A bud cap is a lightweight, 4" x 6" piece of paper that is folded in half and stapled around the terminal shoot and bud of the tree. Its best to use at least three staples and to capture some needles with the staple to help hold the paper in place.

Bud-capping should be done in the fall before snow covers the ground. Trees can grow up through the paper during the next growing season, so bud caps do not need to be removed. Bud caps do need to be reapplied every year until the tree is at least four feet tall - out of easy reach of deer.

Deer browsing of side branches is usually not detrimental to the health and survival of young white pine unless excessive. But this can easily be the case on our wooded properties. In that case, fencing may be necessary, especially for specimen trees.



*Photo by Harris Goldstein*



*Photo by Jim Cook*



*Photo by Jim Cook*



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# President's Message | North Long Lake

Bill Schmidt | President



Greetings to the North Long Lake Association members, property owners, and friends.

As I write this I'm reflecting back on our summer and what a summer it was. It all started with a late ice out, May 4, and it seemed we were playing

catch up from that point on. Docks and lifts had to be put in, lawn furniture had to be cleaned and put out, lawns had to be cleaned up and boats prepared as the fishing opener was less than a week away. But bigger than all of that was the bog - staring us in the face. Somehow it had to be moved.

Randy Tesdahl from the American Legion organization, Kevin Martini from the DNR and myself formed a team and went to work. After countless hours and several attempts we started to make progress. On the eve of July 3rd, with a little help from Mother Nature the last piece was finally relocated. Later in the newsletter Harris will give a complete story on the bog, be sure to read it. I want to thank Randy, Kevin, all the volunteers, and volunteers with boats for their long and hard hours in achieving this task, it could not have been done without you. It's a wonderful example of what can be accomplished when a lot of people come together sharing ideas, working hard, and never giving up. Again thanks to all of you very much.

I also want to recognize and thank Jim Voiss for all that he has done for the association. Jim sold his place on the

lake and will be relocating to Arizona this fall. Jim has served as a board member, board secretary, and board treasurer. He has organized and implemented a "state of the art" treasurer reporting system. We will miss Jim's friendship, professionalism, willingness to tackle any activity, and his great advice. Good luck Jim, we wish you the best.

I also want to thank the total board for all that they do. The association is in very good hands with a board so dedicated and willing to roll up their sleeves and work on protecting the quality of the lake, the property owners, and being a good neighbor.

Our focus for the rest of 2018 and 2019 will be to continue excellent communications, to increase membership, stay current on legislative issues, establish an AIS detector program, conduct another watercraft training program, and manage any new challenges.

Finally I want to welcome all new property owners to the lake. The association is there for you and if need anything please call one of the board members. Also you can visit our web site for additional information. We have two seats opened on the board and if anyone is interested please contact one of the board members or call myself.

A special thank you to all of you for making this the great lake that it is and have a wonderful Holiday season.

Bill Schmidt



## Highway 371 Roadside Pickup

Our fall Highway 371 cleanup was held September 8th. We had a small – but efficient – turnout.

From left to right: Sandy Loney, Ral DuBois, Darlene Heyne, Leo Heyne, Gary Villwock, and Wes Hradsky.

It was the usual haul, including lots of car parts. And it was a chilly morning with a bit of rain. A big thank you to the volunteers and to Ral and Judy Dubois who organized the event.

Our Spring 2019 roadside pickup will be Saturday, May 18.

Please put this on your calendar.



# The Monster Bog



Needless to say, the story of the summer – at least on North Long Lake – was the monster bog. The story actually began in October of 2017, when a HUGE bog broke loose and traveled around Merrifield Bay, destroying some docks and lifts. It broke loose on Friday the 13<sup>th</sup>. Bogs aren't new to North Long, they occur almost every year.

But this bog was estimated at approximately 4 acres and weighing 4,000 tons. It was so large it actually had tamarack trees growing on it. No one could recollect a bog even near this size on a Minnesota lake; the closest was a bog one-third the size in Wisconsin. The massive size of this bog required a community effort to move it and prevent further damage.

We believe the bog broke loose from an undeveloped area on the south side of Merrifield Bay, east of the Legionville beach. After literally traversing the entire Merrifield Bay, it ended up back on the shoreline of Legionville but right in front of their swimming beach. A call went out for volunteers to stake it in place – to prevent it from moving into shore and from moving out into the bay.

Over the winter, the North Long Lake Association, the American Legion (who own and operate Legionville), and the DNR made plans to move it to

*Photos on pages 6-7 courtesy of Jackie Kottke,*

*Arial Photo courtesy of Brainerd Dispatch, re-printed with permission*





an undeveloped spot just east of where it landed. Bogs are considered a natural occurrence on lakes, so the role of the DNR was to advise. The DNR also had to issue the necessary permit. It was up to us to actually move it.

But no one could tell us how to do this. As far as we could tell, this was the largest bog that anyone had even attempted to move. Bids from companies to move the bog ranged from \$100,000 and up. And over \$500,000 to break it up and remove it. So we took our best shot at an approach.

We started off with great fanfare. Over three dozen boats, including high powered boats provided by Evinrude, would pull the bog attached to cables and straps. Volunteers from the association and the American Legion added their boats to the armada. The Sheriff's Water Patrol would cordon off the area in the lake. Media, both local and from the cities, were present with cameras on land, in drones, and a helicopter. All to watch the bog go --- nowhere. It wouldn't budge. Time to come up with a plan B.

*Continued on page 8*





# The Monster Bog

*Continued from page 7*



Remember the saying "How do you eat an elephant? One bite at a time." That was our plan B. With cables dragged through the bog (like a cheese slicer) and with chainsaws, we cut the bog into thirds. It was tough, dirty, and even a bit dangerous work. We organized our boats, attached straps and cables, and pulled on one of the sections. Still we got nowhere.

So we cut it in even smaller pieces. We even ran a steel cable underneath to cut any roots that made their way to the lake bottom. Now we were able to budge it. We opened up a channel to allow boats to get behind it. With boats pulling and now boats pushing, we were able to move it. Success – we did it! And no one there to watch us. But that was just a small part of the bog.

We kept at it, one section at a time. Many calls for volunteers went out and, piece by piece, we got it out of there and moved about 200 yards to the east where we pushed it into shallow water and staked it down. Some of the larger sections were surrounded by a ring of logs, tied together with chains and anchored on shore with cables. It wasn't easy. On more than one occasion heavy rains and rising water allowed a piece to float off on its own, requiring a mad dash to put it in a safe place. And, after steady winds from the south, at least one of our anchored sections broke loose and

*Photos on pages 8-9 courtesy of Harris Goldstein*

*Arial Photo courtesy of Brainerd Dispatch, re-printed with permission*



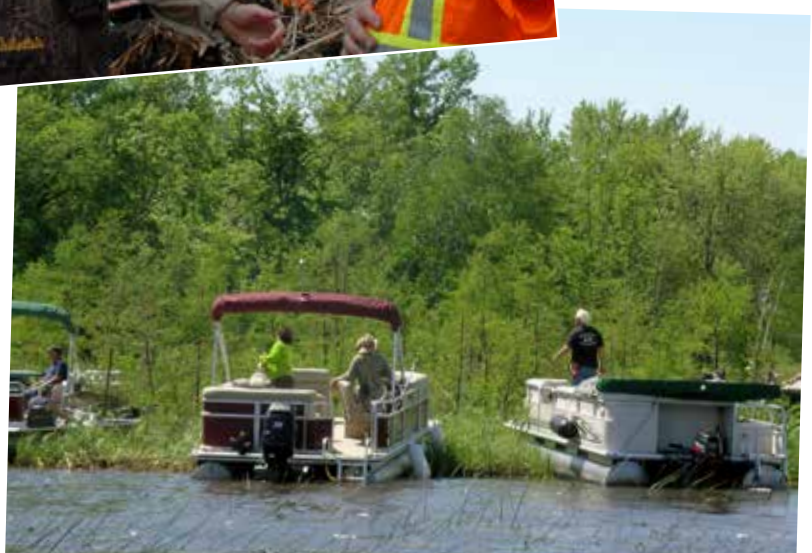


*Aerial Photo courtesy of the Brainerd Dispatch, re-printed with permission.*

found its way to the north side of the bay.

All told, there were 10 calls for volunteers from the North Long Lake Association. Many answered the call, and most of those on multiple occasions. Bill Schmidt from the North Long Lake Association, Randy Tesdahl from the American Legion, and Kevin Martini from the MN DNR worked tirelessly to plan, organize, and execute the effort. Unfortunately, Legionville had to cancel their program for the summer as the bog at the swimming beach posed a safety issue.

But as water levels decline we expect the bog sections to take root in shallow water. With just a little bit of luck, they'll stay there.





# Research in Controlling Zebra Mussels

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In 2012, the Minnesota legislature appropriated funds to create an Aquatic Invasive Species Cooperative Research Center at the University of Minnesota, in collaboration with the Commissioner of Natural Resources (DNR). The Center's mission is to develop research-based solutions that can reduce the impacts of aquatic invasive species in Minnesota by preventing spread, controlling populations, and managing ecosystems; and to advance knowledge to inspire action by others. The Minnesota Aquatic Invasive Species Research Center (MAISRC) was created as a joint effort with the University of Minnesota.

The MAISRC studies both invasive plants and animals that impact our lakes and rivers – including zebra mussels. They were part of the effort to develop and test the use of copper sulfate, potassium chloride, and Zequanox (dead *Pseudomonas* bacteria) in Christmas Lake (near Minneapolis). That effort was unsuccessful.

However, research continues in finding ways to combat zebra mussels using a specific pathogen or type of bacteria. "Initial findings give us insights to the microbes that are enriched in zebra mussels compared to the environment," said Prince Mathai, research associate at the U of M. "Some of them are also known pathogens. So we are focusing our efforts to isolate those pathogens."

The objective is to find a pathogen that targets the zebra mussel, but nothing else in the ecosystem. "We don't want to introduce any kind of pathogens that are going to target native mussels," Mathai said. "The end goal is to find opportunistic pathogens who are specific to the invasive species but not to the natives," said Mathai. Mathai said that this research will likely continue for the next year and they hope to find a better way to control zebra mussels. Dr. Mathai is also studying microbial approaches to combating Eurasian milfoil.

The MAISRC is also studying the impact of zebra mussels and spiny waterfleas on the food chain and growth rates of young fish in Minnesota's nine largest walleye-supporting lakes: Cass, Red, Kabetogama, Rainy, Vermilion, Lake of the Woods, Leech, Winnibigoshish, and Mille Lacs.

Zebra mussels and spiny waterflea impact the food chain by reducing native zooplankton and filtering algae from the water column. This has a secondary and tertiary impact of the food sources for walleye. The ability of walleye to sustain high populations following invasion is likely based on their ability to adjust to alternative food. Understanding what makes a walleye population more successful following an invasion will allow managers to more precisely target early intervention tactics, more accurately predict walleye production levels following invasion, and better understand impacts.





# 371 Bay Fourth of July Boat Parade

For residents on North Long's 371 Bay, it's been a tradition to have a boat parade on the Fourth of July. This past year was no exception, except that there was a greater effort to invite all North Long residents to attend.

This year, approximately 40 boats participated and the weather was great. Gary Gregory, a US Army Veteran and NLLA member, led the parade. In addition to the many boats participating, we also had a huge increase of viewers on shore cheering and celebrating. Thanks to Claire and Stephanie Esser for organizing the event.





# What You can do to Protect the Lake You Love

Lake home and cabin owners have an unmatched passion for Minnesota's lakes. Collectively they volunteer 1.2 million hours towards lake protection.

But there is one action that many have not yet taken and it is critically important. Become an advocate for lakes.

Said Jeff Forester, Executive Director of Minnesota Lakes and Rivers Advocates, "What happens in Saint Paul impacts each of us out on our docks, often to our detriment. There are hundreds of thousands of lake home and cabin owners in Minnesota. They have a commitment to the health of Minnesota's lakes, but their voices were not heard because they were not organized."

Beginning in 2012, Minnesota Lakes and Rivers Advocates has been lake associations' members' voice at the State Capitol. Forester and Judy Corrigan, who runs the MLR office, and the volunteer MLR Board, set out to build the largest and most active grassroots conservation group in Minnesota.

**Their strategy is to build a grassroots base to impact water related policy in Minnesota, to push media stories about the issues, lobby for legislative changes, and promote, energize and support local efforts. Said Forester, "Water is a totally non-partisan issue. Concern for our lakes and rivers crosses party lines and unites Minnesotans."**

**Minnesota Lakes and Rivers Advocates provides:**

- Full time lobbying at the State Capitol to change laws, push pro-water initiatives, and direct funds towards local lake and river projects, including aquatic invasive species,
- A steady drumbeat of pro-water news stories in press, television and radio to educate citizens and politicians on water issues,
- Support for local partnerships that build lake association capacity and give local water advocates a seat at the table,
- Support funding for world class science to identify issues and discover on-the-ground solutions to our water problems.

Lake associations and their members have never been organized in a unified voice before. Already this effort is generating benefits for lakes and support for the people that work to protect them.

*One MLR member wrote, "I have been receiving your email updates for awhile now. After reading through your purpose and hearing about the action you are taking, my family has decided to join.... While we only have 90 feet of shoreline, we believe we're doing what we can to keep our lake healthy. As we continue to see reports of area lakes being infested with various AIS, it is more important to us than ever to help reduce this spread. We hope that our donation will help to keep our lakes and rivers healthy, and perhaps there will be opportunities for us to become more involved as well. I have been learning a lot from the content on your website (thanks for your work with respect to property taxes!)"*

Thousands of lake home and cabin owners across the state are building a grassroots constituency to protect lakes from runoff pollution, aquatic invasive species, poor fisheries management, loss of lake habitat. Membership contributions for Minnesota Lakes and Rivers are set by the members. People contribute what they can, with the average being about \$7 a month, slightly more than a fancy coffee drink at Starbucks. This small investment in their lake is having a huge impact.

Said Forester, "No other group of people is better positioned to advocate for water protection and the local economic and lifestyle benefits our waters provide to our communities and state than lake home and cabin owners. By organizing this large grassroots constituency, we will be able to advance legislation and secure funding to ensure we leave a healthy lake legacy for our children, grandchildren and great grandchildren."

To learn more, and to join, go to [www.mnlakesandrivers.org](http://www.mnlakesandrivers.org). Consider being a sustaining member to maximise your contribution. Or call 952-854-1317 for more information.

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# When and why leaves change color



## What causes fall colors?

### The chemicals

Four main groups of biochemicals are responsible for the various yellows, oranges, reds and browns that we see in the fall:

Chlorophyll, Carotenoids, Anthocyanins, Tannins. Each has its own color and chemistry. As the amount of these chemicals vary, they will cause subtle variations in color from one leaf to the next, or even from tree to tree.

### Chlorophyll

The green color that we see on most plant leaves throughout the spring and summer is caused by a pigment called chlorophyll. Chlorophyll is one of several pigments that gather energy from sunlight in the process of photosynthesis. Chlorophyll absorbs both the blue and the red wavelengths from sunlight, and reflects the green wavelengths. Nitrogen is one of the main components of chlorophyll. As our days shorten and temperatures get cooler, chlorophyll is broken down faster than it's produced. The majority of the nitrogen migrates back to the twigs, where it is stored for next year's new growth. As chlorophyll breaks down, the carotenoids are revealed.

### Carotenoids

Many of the yellows and oranges we see in nature are the result of carotenoid compounds. They are what make carrots orange! Carotenoids play a minor role in photosynthesis—they are present throughout the growing season, but are only revealed when chlorophyll breaks down. You are more likely to see brilliant colors when the fall weather has warm, sunny days with cool nights between 32° and 45 °F. Look at a leaf that has been grown in the shade, and you may notice it is a duller color than leaves that grew in the full sun, even on the same plant.

### Anthocyanins

The reds and purples you see in the fall are caused by anthocyanins, which are what you get when sugars combine with compounds called anthocyanidins. Many things affect the exact color produced by anthocyanins, including the pH (acidity or alkalinity) of the cell sap in the leaves. With an acid pH, anthocyanins are often red; with a more alkaline pH they turn purple-to-blue. Because anthocyanins need sugar for their creation, weather that favors photosynthesis (sugar production) is essential. Bright, sunny fall days produce the best colors. Very little photosynthesis

occurs on cloudy days, and rain can actually leach the anthocyanins and carotenoids out from the leaves. Different combinations of anthocyanins and carotenoids can result in there being yellow, orange and red leaves all on the same tree at the same time. The exact color a tree produces will vary from year to year. Some people believe they can force a more brilliant red color by adding acid-forming fertilizers to the tree, especially aluminum sulfate. This method may sound like it should work, but there is no scientific evidence to support it.

### Tannins

In many forests, oak trees don't add much to the collage of fall colors. They often just turn brown, thanks to a group of compounds called tannins. Tannins are revealed when both chlorophyll and carotenoids break down in the leaves. Some oaks do produce a light red or pink color in the fall, but our native bur oak does not.

### Conifers

Not all conifers are evergreen! Some change color and lose their needles in the fall. Many conifers—including spruce and pine trees—naturally shed their older needles every year (the needles toward the plant's interior), and it's perfectly normal. Larch trees are unique among the conifers in that they lose all of their needles every year. They are "deciduous evergreens." The needles turn a bright golden yellow and are beautiful to observe as they float lazily to the ground.

*Credit: Joe Zeleznik, Extension Forester, North Dakota State University. 2007.*

*Fall Colors of North Dakota. Pages 15-16 in North Dakota Climate Bulletin.*



# North Long Lake Annual Meeting and Picnic

Our 2018 Annual Meeting and Picnic was held Saturday, July 21 at Legionville. Attendance was good, with 149 members representing 84 properties, there for the meeting and picnic lunch. In addition, there were 13 children for a total of 162. Last year's attendance totaled 180.

The meeting was called to order promptly at 10:40am by board president Bill Schmidt. After introduction of the board and review of the agenda, we commenced with board elections. There were four open board positions. Nominations from the floor were called for but none were submitted.

Tom Gerrety, Sandy Loney, and Jim Voiss - all current board members - ran for reelection and were elected to another three year term. One board position remains open.

Financial and membership reports were presented by Bill. Our full year 2017 income was \$27,847, expenses were \$19,995, resulting in a net income of \$7,892. At end of 2017, cash on hand was \$66,485. For year-to-date ending June 30, 2018, income was \$23,709, expenses were \$12,188, resulting in a net income of \$11,521 and cash on hand of \$78,006.

At the end of 2017, we had 417 members (a record number). As of 7/24/2018, we have 395.

Following, there was a detailed chronology of our efforts with the bog by Bill. It was a great deal of work by a number of dedicated volunteers. The beach at Legionville is now clear. We also had reports on our Communications efforts, the Boat Safety class (26 youths attended), the 371 Boat Parade (over 40 boats this year), and our new logo clothing (visit [nlla.skorfanshop.com](http://nlla.skorfanshop.com) to view items and order).

A question was raised about the lake level and whether we could tear down any beaver dams impeding the outflow. The response was that a) it's not clear that beaver dams are the problem as water is not backing up at the CR127 culvert and b) any beaver dams are not on property we have control over.

During the meeting, door prizes were awarded and silent auction winners were named. This year we had over 40 prizes from 38 local merchants to give away. A full list is included on page 15 of this newsletter and posted on the association website: [northlong.org](http://northlong.org).



Photos courtesy of Jim Cooper



# Merchant Donations

Local merchants and businesses were generous in donating merchandise and services for our annual meeting and picnic. Please consider them as you do your shopping and let them know we appreciate their generosity.

After the business meeting, it was time for a picnic. Brats, hot dogs, potato salad, beans and more were enjoyed by the attendees. Last but not least - root beer floats.

We were done by 12:30. Thanks to all who stayed a few extra minutes to put away tables and chairs.

As in past years, local merchants and businesses were generous in donating merchandise and services for our silent auction and door prizes.

Adams Pest Control  
Affordable Auto  
Andy's Grill  
Anita and Tom Gerrety  
Black Bear  
Blakeman Septic  
Boulder Tap Room  
Buffalo Wild Wings  
Chameleon Café  
Crow Wing Power  
DH Docks & Tracks  
Erickson Greenhouse  
Grand View Lodge  
Highway 3 Marine  
Lakeside Acres  
Landsburg Nursery  
LCL Electronics  
Merrifield Café Nisswa Automotive  
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R.W.Jewelers  
Roundhouse Brewery  
Salon 77 Pam Martin  
Salon 77 Pam Wachholz  
Spirits of Nisswa  
Steve Peterson  
Super 1 Liquor  
The Woods  
Wild Bird Store  
Woodland Meadows





# 2018 Youth Boat Safety Class



The NLLA hosted its first Youth Boating Safety class, conducted by the Crow Wing Sheriff's Water Patrol, at Northern Cowboy on June 20th. The class teaches the fundamentals of safe boat operation; successful completion of the class and test allows youths to receive their youth boat operators permit. This permit is required for youths age 12 to 17 to operate a watercraft over 25hp, unsupervised, in Minnesota. It also allows those 14 to 17 years old to operate a PWC unsupervised.

The scope of the class was extensive, including typical operation, safety, navigation, legal requirements (specific to Minnesota), dealing with emergencies, operation of a personal watercraft, and engaging in water sports. The class was presented as a combination of videos, lecture, reading, and discussion.

26 boys and girls attended. The class – presentations, videos, discussion, and test – was about 3 hours. Following the classroom session, they had the opportunity to practice their new skills on the water in Sheriff's Patrol boats. Each attendee received a new Coast Guard approved life vest provided by the Association.

The class was conducted by Sgt. DJ Downie and Dep. Todd Holk. They did a very good job of keeping the kids engaged. The on-the-water exercise was conducted by Dep. Andrew



Rugloski and Recreation Specialists Nick Lassow and Connor Collette.

The classroom facility and lunch were provided by Northern Cowboy at no cost to the association. Thank them next time you're in there!

The logistics were organized by Anita and Tom Gerrety.

Given the success of this class, we plan to offer it again next summer.





# North Long Lake Water Quality Update

By: Sarah Fogderud, A.W. Research Laboratories, Inc.

The North Long Lake Association has monitored the water quality of the lake for many years and continues to do so every summer from May through September. In 2018, our lab collected samples again at 3 sites on North Long Lake. A big thank you to Al Hansen and Jim Anderson for assisting me with the sample collection!

The sampling that we do involves collecting water samples at each site along with a Secchi disk reading to measure the water clarity. The water samples are then analyzed at our laboratory for total phosphorus (a nutrient needed for plant and algae growth) and chlorophyll-a (a plant pigment and indicator of algae levels in the lake).

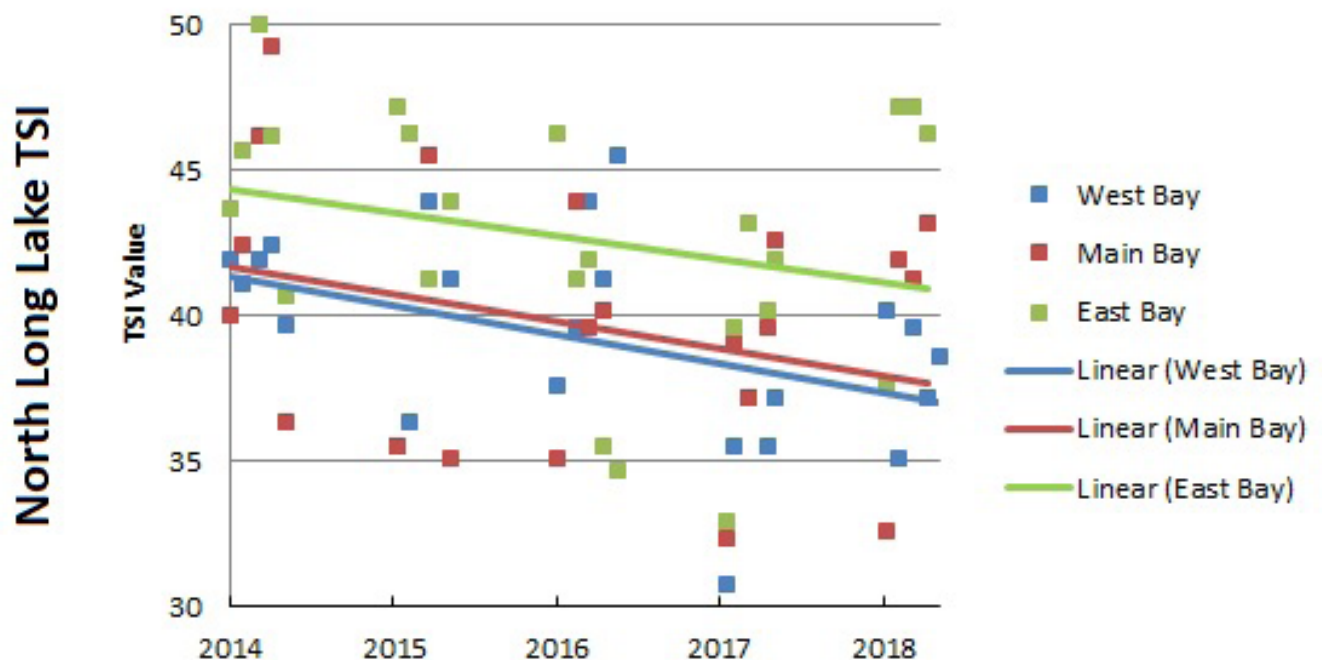
In 2018, we saw a decline in water quality at all 3 sites compared to previous years. On average, we measured higher phosphorus readings, more chlorophyll-a in the water, and shallower Secchi depths. It's difficult to say exactly why this year was different. It may be due to differing weather patterns, precipitation, or even a dip in zebra mussel growth this year. It's important to remember that one year of data is not enough information to judge the trend of the water quality for the lake. We need to look at multiple years and assess the overall trend over time.

Despite the decline measured in 2018, the water quality in North Long Lake is generally very good and shows

improving trends over the past 5 years at all three locations. As we've mentioned before, this improvement is likely due in part to the influence of zebra mussels. Zebra mussels are filter feeders removing large amounts of plankton from the water column. A single mussel can filter up to 1 liter of water per day! This can have a large effect on the clarity of lakes as we observed on North Long Lake in 2016 and 2017.

Maintaining the good water quality of North Long Lake will take effort from those who live on and use the lake. Increasing development pressure and climate change is expected to increase the stress on lakes throughout central Minnesota in the future. Therefore, it is crucially important to continue to monitor water quality, and to protect North Long Lake as much as possible from all sources of phosphorus loading to maintain its current level of water quality.

Land-use practices of private property owners both on the lakeshore and within the watershed of the lake can have a major impact on the water quality of North Long Lake. Keeping forested land forested is the number one thing that we all can do to protect our lakes. The canopy cover provided by trees slows rainfall and their deep roots soak up nutrients. Keeping a natural shoreline can also make a huge difference in slowing runoff and allowing phosphorus and other pollutants to be soaked up by native plants before they can reach the lake.





## North Long Lake History

7345 County Road 127, Brainerd  
Lakeside Acres RV Park

In 1977 a tornado came off the lake and destroyed the eastern part of the property—cabins and trees, leaving an open field. The tornado also tore off the roof off the original log house on the top of the hill. After the tornado, four 2 bedroom cabins were moved from Madden's Resort to add to the one original 1 bedroom that remained after the tornado.

Mike and Becky McMenimen purchased the resort in June of 1986 from Ronald R. and Geraldine Waidelich. It was called Bears Den Resort back then. It had five cabins on the lower level near the lake and a 3 bedroom log home on the upper level.

Previously, back in the 50s, it was known as Maple Grove Resort. The original deed to the property was issued August 3, 1918 to Anton and Bessie Mahlum. The property remained in their family until 1955.

Here are some photos from the 1977 tornado, provided by Mike and Becky McMenim



## Jim Voiss

Jim Voiss, board member and Treasurer since 2015, has sold his North Long Lake property and is moving out of the area. As a result, he has resigned his position on the board.

Jim had been a valued asset as a board member and as Treasurer. He's kept our books and our membership roster in perfect order. Not to mention serving as one of our two expert grillmasters at the annual meeting and picnic.

We are sorry to see him leave, but wish him well and hope the summer heat in Arizona isn't too difficult.



## Jim Anderson Elected NLLA Treasurer

In August, board member Jim Anderson was elected to Treasurer of the North Long Lake Association.

Jim lived in Rochester until moving to North Long as a full time resident, with his wife Mary, on Merrifield Bay. Jim spent 30 years at the Mayo Clinic; the last 15 years managing a unit responsible for the data network. He has been an active member of the board since 2016 and has a particular passion for maintaining water quality and improving our lake's fishing. Jim has been treasurer on two other non-profit organizations and is knowledgeable on our financial software.

Jim is working closely with Jim Voiss, outgoing Treasurer, to make sure we have a smooth transition.



*Photo courtesy of Jackie Kottke*



# Opening on the North Long Lake Association Board of Directors

Want to make a difference in the future of North Long Lake?

We now have two vacancies on the NLLA Board. Board members must be property owners on North Long Lake. Being an active board member is a great way to influence the direction of the association and ultimately our lake and lakeshore.

Our board meets monthly (the second Thursday of the month) in Merrifield. We are looking for interested members who want to actively participate. Please email Bill Schmidt, NLLA President at [bill.schmidt@northlong.org](mailto:bill.schmidt@northlong.org) if you are interested.

*Photo courtesy of Harris Goldstein*



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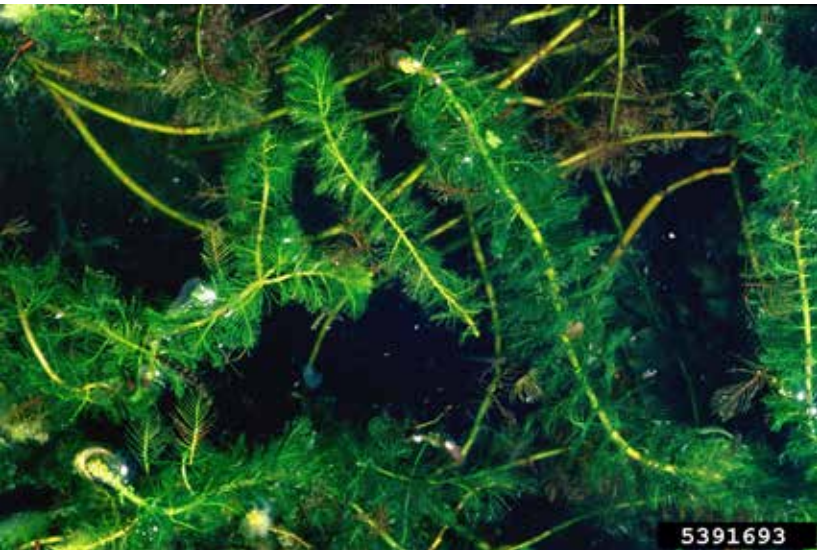
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# Help Protect North Long Lake – Become an AIS Detector



*Eurasian Milfoil -Barry Rice, sarracenia.com, Bugwood.org*

We need trained AIS Detectors to monitor our lake for new threats as they may occur. While zebra mussels are already here, eurasian milfoil and starry stonewort have not yet been found in North Long. Early identification may give us the opportunity to eradicate invasives before they take hold.

The Minnesota Aquatic Invasive Species Research Center (MAISRC) has a program to train and certify volunteer AIS Detectors and monitor their findings. Both online and in-person training is required and, of course, an ongoing commitment to monitor the lake. The fee for training will be covered by the association.

Certification requires completing approximately 16 hours of training, both online and in-person. The online portion can be completed around your schedule anywhere you have access to the internet. The in-person portion consists of a single, full-day workshop. You must complete both to become a certified AIS Detector.

Once certified, Detectors must complete 25 hours of volunteer service and 8 hours of advanced or refresher training each year to maintain their active status. As an AIS Detector, you will serve a critical role in improving Minnesota's capacity to detect, respond to, educate about, and manage aquatic invasive species. Examples of activities that count towards volunteer service hours include:

- **CITIZEN SCIENCE:**  
Completing new detection surveys, participating in Starry Trek, providing support to DNR detection and research projects, helping MAISRC scientists in the field, reporting incidental AIS discoveries
- **EDUCATION/OUTREACH:**  
Staff educational booths at the State Fair, county fairs, and other local events, help develop informational brochures, speak at your next Lake Association meeting or other event
- **STEWARDSHIP:**  
Build sampling equipment for AIS such as zebra mussel samplers or aquatic plant rakes, hand-pulling of AIS
- **PROGRAM SUPPORT:**  
Help with data entry from AIS projects, coordinate a volunteer event, stuff envelopes with AIS informational mailings. More information at [www.maisrc.umn.edu/ais-detector](http://www.maisrc.umn.edu/ais-detector).

Ideally, we would have an AIS detector in each bay. If interested, please send a note to [newsletter@northlong.org](mailto:newsletter@northlong.org).



*Spiny waterflea - Gary Montz, 144, Bugwood.org*



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# North Long Lake MEMBERSHIP REPORT

Paid Memberships as of September 30, 2018 totals 405; close to but not quite at all time high. A special thanks to the 17 new members (never before a paid member) and 12 returning members (a paid member in the past but not in 2017) for joining or rejoining the lake association.

And as always, thank you to the members who renew their membership year in and out - the very backbone of the association.

Of the 405 memberships, 251 also contributed funds for Aquatic Invasive Species (AIS). As mentioned many times in

our newsletters and emails, there is no bigger threat to the quality of our lake than AIS and donations to fight AIS are especially important.

As of September 30, there are 40 members from 2017 who have not renewed their membership for 2018. We know several of these members have sold their lake property and that is the reason for the non-renewal. But if you are one of the 40 still enjoying North Long Lake, we encourage you to send in your 2019 renewal.

## NORTH LONG LAKE ASSOCIATION FINANCIAL REPORT

### Full Year 2017 & YTD September 2018

<u>Income</u>	<u>Full Year 2017</u>		<u>YTD September, 2018</u>	
<b>Membership Dues</b>		\$ 14,490		\$ 13,790
<b>Aquatic Invasive Species Income</b>		10,795		10,565
<b>NLLA Clothing Sales</b>		1,825		314
<b>All Other Income</b>		737		856
<b>Total Income</b>		\$ 27,847		\$ 25,525
<u>Expense</u>				
<b>Aquatic Invasive Species Expense:</b>				
<b>Watercraft Inspection</b>	\$ 5,511		\$ 4,649	
<b>Curly Leaf Weed Treatment</b>	5,535	\$ 11,046	3,090	\$ 7,739
<b>Water Testing</b>		1,962		1,527
<b>Postage &amp; Mailing Costs</b>		1,286		1,362
<b>Donations &amp; Memberships</b>		1,302		1,290
<b>Cost of NLLA Clothing</b>		1,363		30
<b>Website</b>		157		157
<b>Annual Meeting/Picnic</b>		572		535
<b>Liability Insurance</b>		867		875
<b>Monster Bog</b>		323		5,783
<b>All Other Expense</b>		1,078		703
<b>Total Expense</b>		\$ 19,955		\$ 20,002
<b>Net Income</b>		\$ 7,892		\$ 5,523
<b>Cash On Hand</b>		\$ 66,485		\$ 72,008

The Association's Membership is 405 as of September 30, just under the full year 2017 membership total of 417. The Association remains in solid financial position and will finish the year with cash in excess of \$70,000. The Association maintains financial records to ensure that all cash receipts and all cash payments are properly accounted for, that cash is properly safeguarded and that funds are correctly designated for General Use or for AIS. The association By-Laws require an annual audit of the financial records by a committee of board members to ensure proper accounting procedures and documentation. The audit committee is comprised of the Board President and other members of the Board appointed by the President. The audit of the 2017 financial records will be completed in late October, 2018.



## North Long Lake 2019 MEMBERSHIP DUES STATEMENT

The NLLA Board of Directors trust that you find your contribution to the association a worthy investment. Our organization leads the effort to control and limit non-native species, we monitor lake water quality, and we represent you – the North Long Lake resident – with regulatory bodies that impact our lake. The more members we enroll, the better we can continue these efforts. NO OTHER ORGANIZATION IS DIRECTLY RESPONSIBLE FOR THE WELFARE OF NORTH LONG LAKE.

And please be as generous as you can with contributions to the Invasive Species Fund. This is the only resource we have for “in kind” support for boat inspections and invasive species treatment. Remember that we are a 501(3)c organization; your invasive species donations are TAX DEDUCTIBLE.

Dues and Invasive Species contributions are on a calendar year basis. *Thank you!!*

Name: \_\_\_\_\_

Mailing address: \_\_\_\_\_

Lake address: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Lake Phone: \_\_\_\_\_

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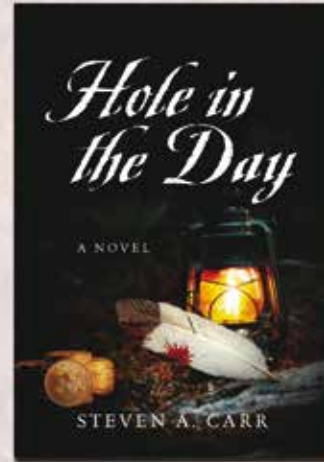


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# 2018 Round Lake Annual Meeting

Our annual meeting for the Round Lake Improvement Association and the Round Lake Improvement District was held on June 9, 2018 at the Nisswa Community Center. Approximately 70 residents and guests attended the meeting. Crow Wing County Commissioners Paul Thiede and Rosemary Franzen also joined us for our meeting.

Ron Bray, Project Manager/Vice President, of WSB & Associates, Inc. gave an update on the CR115 survey and analysis his firm was doing and answered many questions. Joanne Jarvis of Lakes Restoration gave an update on curly leaf pondweed in Round Lake as of May, 2018.

Food was great. The association provided pulled pork sandwiches and the members brought many tasty dishes. As usual, we gave away 4 St Croix fishing rods and many other prizes. This was a good time to visit with and get to know our neighbors.





# Round Lake Water Quality Update

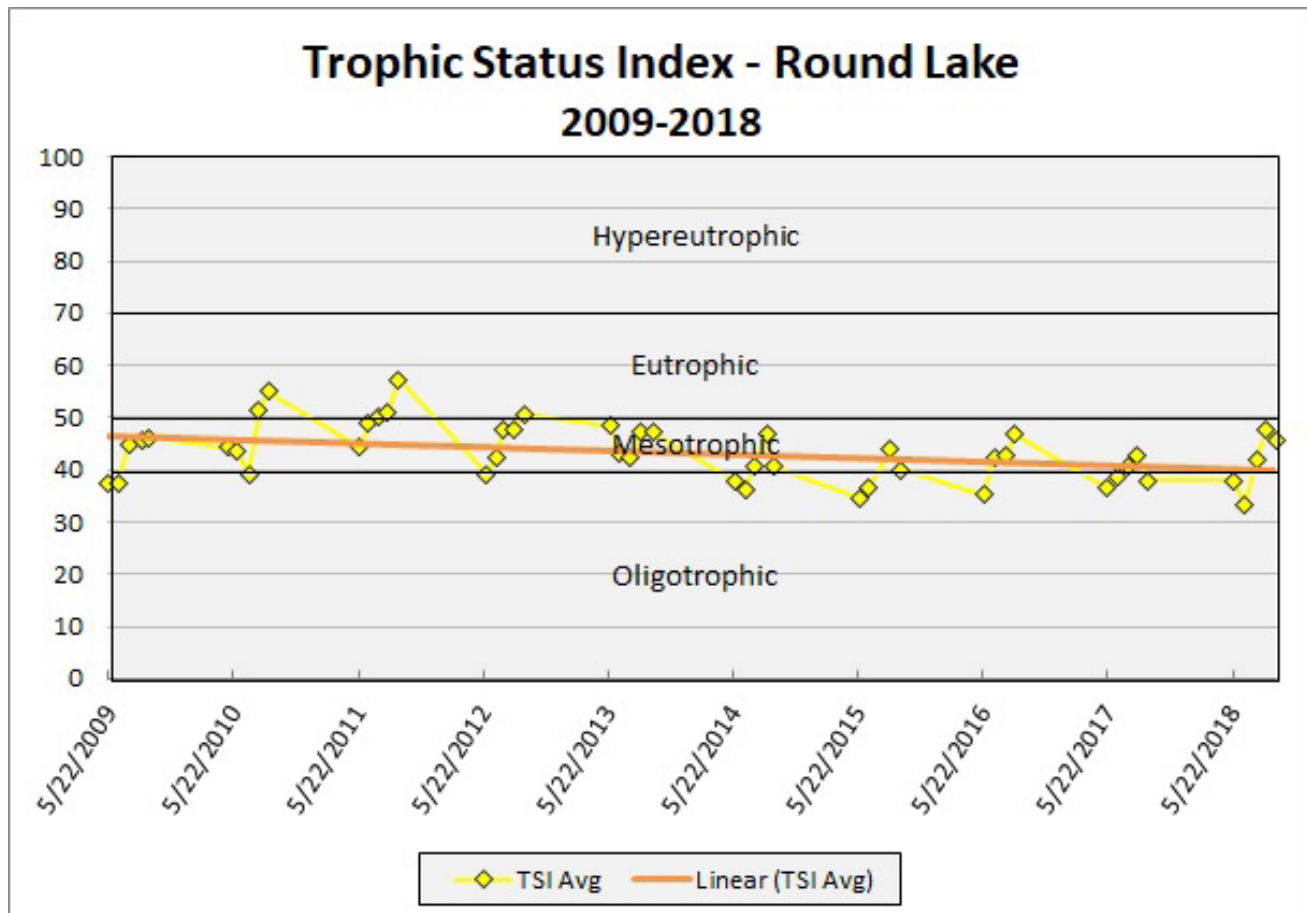
By: Sarah Fogderud, A.W. Research Laboratories, Inc.

The Round Lake Improvement Association has monitored the water quality of Round Lake for over 30 years. Volunteers collect water samples and a Secchi disk reading once monthly from May through September at the deepest part of the lake. The water samples are brought to our laboratory for analysis for total phosphorus (a nutrient needed for plant and algae growth) and chlorophyll-a (a plant pigment and indicator of algae levels in the lake). These measurements along with the Secchi disk reading (a measure of water clarity) help to give us an overall picture of the water quality of the lake. When taken consistently over time, the data from these water samples can be used to determine long term water quality trends.

Since monitoring began in 1985, the water quality of Round Lake has remained stable over time. This means that despite variations from year-to-year, the overall trend is steady; the lake is essentially remaining the same for the parameters we are measuring. However, if we look at the past 10 years of data, we see an improving trend (shown in the graph). The main cause of this improvement is an increase in water clarity since 2009. This improvement in clarity is likely due to many different

factors, one of which is the presence of zebra mussels in the lake. Zebra mussels are filter feeders removing large amounts of plankton from the water column. A single mussel can filter up to 1 liter of water per day! This can have a large effect on the clarity of lakes as we have seen in Round Lake and others.

As water clarity increases, sunlight can penetrate further down in the water column allowing more plants to grow. As a result, we may see an increase in invasive weeds like Curly Leaf Pondweed in the lake. Limiting the amount of phosphorus and other nutrients that are added to the lake will be important in preventing this weed growth and preserving the water quality of Round Lake into the future. Keeping forested land forested is the number one thing that we all can do to protect our lakes. The canopy cover provided by trees slows rainfall and their deep roots soak up nutrients. Keeping a natural shoreline on your property can also make a huge difference in slowing runoff and allowing phosphorus and other pollutants to be soaked up by native plants before they can reach the lake. As property-owners on Round Lake, you all have an important role in play in protecting the lake for future generations.



# ROUND LAKE IMPROVEMENT ASSOCIATION MEMBERSHIP LEVELS

3/23/2018 thru 9/18/2018

In honor of Jay Simon's 80th birthday - an anonymous donor gave \$15

## OWL (\$25 to \$49.99)

Baxter, Tim & Nancy  
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Danielson, Keith & Karen  
Durrenberger, Lynn  
Fisher, Scott & Sue  
Frie, Jake & Angie  
Graphenteen, Marian  
Heinen, Pat & Nick  
Hennes, David & Kathleen  
Holmstrom, Marjorie  
Jorgensen, Chuck & Marie  
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Jacks, Nancy  
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McGrath, Bill & Kris  
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Paycer, Al & Laura  
Retka, John & Denise  
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Slupe, Berniece

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Bottemiller, Galen  
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Davidge, Eric & Julie  
Frye/Field, Rodd & Vicki  
Lancaster, Bill & Elaine  
Larson, Mike & Ada  
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McDermott, Mike & Tanya  
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# ROUND LAKE IMPROVEMENT DISTRICT

For the Period of 1/1/2018 - 7/31/2018

		DESCRIPTION	VENDOR	DATE
Cash Balance as of 1/1/2018	\$96,925.98			
Revenues:	\$1,212.10	Jan 2018 settlement	CWC	1/24/2018
	\$21,657.86	July settlement	CWC	7/3/2018
Total Revenues	\$22,869.96			
Expenditures:	\$250.00	2017 LID Annual Admin Fee	CWC	1/3/2018
	\$1,536.00	Insurance	MCIT	1/16/2018
	\$215.00	Summer TSI analysis	AWResearch	5/15/2018
Total Expenditures:	\$2,001.00			
Cash Balance as of 7/31/2018	\$117,794.94			

## ROUND LAKE IMPROVEMENT ASSOCIATION, INC.

Net Worth - as of 6/30/18      Balance as of 6/30/2017      Balance as of 6/30/2018

### ASSETS

Cash and Bank Accounts:		
CD BlackRidge 403596	15,317.64	25,408.06
CD Designated Funds Dredging	8,935.01	8,990.48
Checking	10,023.02	19,682.74
Savings	28,107.53	18,145.63
Savings Dredging Funds	100.52	100.54
TOTAL Cash and Bank Accounts	62,483.72	72,327.45
TOTAL ASSETS	62,483.72	72,327.45

### LIABILITIES

TOTAL LIABILITIES	0	0
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OVERALL TOTAL	62,483.72	72,327.45
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## ROUND LAKE IMPROVEMENT ASSOCIATION, INC.

Banking Summary  
7/1/2017 through 6/30/2018

### INCOME

Interest Inc	\$135.79
Interest Inc:Dredging Funds	\$55.48
TOTAL Interest Inc	\$191.27
Meat from Picnic	\$17.00
Membership Dues	\$11,530.00
Rummage Sale Income	\$85.00
TOTAL INCOME	\$11,823.27

### EXPENSES

Buoys	\$297.85
Mailbox Fee	\$52.00
Misc	\$25.00
Picnic	\$1,246.72
Postage (Stamps,etc)	\$26.89
Professional Fees	\$250.00
Sale Around Round Expense	\$81.08
TOTAL EXPENSES	\$1,979.54

OVERALL TOTAL      \$9,843.73



"A lake is a landscape's most beautiful and expressive feature. It is Earth's eye; looking into which the beholder measures the depth of his own nature."

— Henry David Thoreau

Photo by Jackie Kottke

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*Photo courtesy of Jackie Kottke*