



# Lakeshore News

The Official Newspaper Of Otter Tail Lakes Property Owners Association

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February 2018

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## Welcome To OTLPOA Board Roger Anderson



We'd like to introduce our newest board member, Roger Anderson. Roger knows this area well, as he was born and grew up on a family farm just north of Audubon, MN. He attended Audubon High School. Upon graduation, Roger attended the University of Minnesota, Crookston until he was drafted into the US Army in September of 1968. He served a 15-month tour in Vietnam with the 101st Airborne Division. After retiring from the military, Roger enrolled at Mankato State University and completed his education in Business Administration.

Roger was a banker for 37 years. Although he worked for several banks in Minnesota, most of his career was spent in Red Wing.

Roger and his wife, Karyl, have five children – Jeff (Jody), Ryan (Ann), Sam, & Cole who live in Minnesota and Chelsea (Jonathan) who lives in Chicago. They love visits from their children and four grandchildren (ages 9, 8, 7, and 6 months).

Living in Ottertail has been one of the highlights of his life. Being close to family (his brother still lives on the original farm) is a great benefit to being "up north." His hobbies include golf, hunting, fishing and doing yard work.

"I joined the OTLPOA Board with the hopes of helping preserve one of our greatest natural resources. It's a priority for me to keep our lakes clean and free from Aquatic Invasive Species. Our lakes are the cornerstone of this community's economy and a great source of pride and joy for the people who live here." said Roger. "We need to do all that we can to preserve this beautiful area for the future."

**Welcome Roger!**



2017 Minnesota Aquatic Invasive Species Research and Management Showcase was held on Wednesday, September 13 in St. Paul. Bernie Steeves and Rob Bope attended the Showcase and heard about the latest MAISRC research on starry stonewort, zebra mussels, spiny waterflea, invasive carp, harmful fish diseases, and so much more. They both highly recommend this program. See a summary article on Page 8 about the 2017 Showcase. The next summit, Aquatic Invaders Summit III, will be held on February 28-March 1. For more information about this Summit go to Page 6.

## MEMBERSHIP RENEWALS

will be mailed in February. If you do not receive a renewal form you are encouraged to let us know immediately. Renewal forms can be found on page 7 please fill out and mail to PO Box 21, Battle Lake, MN, 56515 or you can visit [www.OTLPOA.com](http://www.OTLPOA.com) and under the membership section pay online.

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## SPECIAL THANKS TO OUR 2017 WATER TESTERS

Back row:  
Dan Carlisle -  
Otter Tail Lake,  
Ray Long -  
Deer Lake,  
Stan Satre -  
Walker Lake,  
Chuck Duncan -  
Deer Lake,  
Pete Johnson -  
Round Lake  
Front row:  
Marc Wing -  
Otter Tail Lake,  
Kate Grandison -  
Otter Tail Lake,  
Ken Wentz -  
Blanche Lake  
Not pictured:  
Paul Oxberry



A special thanks goes out to our 2017 water testers. Otter Tail Lakes Property Owners Association, Inc. in cooperation with RMB Environmental Laboratories, Inc. collect water samples to help monitor the total phosphorus and chlorophyll-a in our lakes. Once a month from May through September volunteers submit water samples and record their observations. Other observations such as Secchi disk, lake level, rainfall, and recreational suitability are also documented. Following laboratory analysis, the data is electronically stored and tracked using a web-accessed database.

**See page 10 for results**

## President's Corner



Scott  
Simdorn  
OTLPOA  
President

By the time you receive this year's first edition of the Lakeshore News many of us will be thinking of spring. Up to this writing, we haven't received any major snowfall but the winter has been a fairly cold one. While there are many winter activities on our area lakes, the thought of long, warm, summer days on our wonderful Minnesota lakes does help.

For those of you who are ice fishing enthusiasts, please remember to keep the area around your house clean and neat. When removing your house from the lake, don't forget to remove any blocks used to raise your house off the

lake. These can end up on shore or floating on the lake.

Once again it's that time of year. Yes, our membership drive has begun. This newsletter goes out to approximately 1700 property owners. We have approximately 1100 members and would like to see all property owners as members. Challenge yourself to find one new member per year. The first letters for membership renewal will be sent out. You may also renew your membership on our website, [otlpoa.com](http://otlpoa.com). If you haven't seen this site, please make sure and visit it. It's a great site with loads of information. It allows you to renew your membership and also make donations to the foundation. Thanks to everyone who has made contributions to the foundation! Remember, these donations help us with larger projects such as AIS. However you decide to renew, please make sure your email address is correct and your current lake property address is correct.

Your board members will be hand delivering the new directories to members this summer. It makes it much easier for us to find you with the correct address. Hand delivery saves us money and is also a great time to meet your director and visit with them about your concerns.

As in the past years, our number one concern is AIS. By this time most everyone is aware of the increased number of lakes infected with zebra mussels. Please keep in mind this is only one type of AIS. There are many more which have not been found in our lakes group but are present in other lakes in our area. Starry stonewort is one of the most destructive invasive species we have seen. Your directors have toured some of the lakes infected with this species. It's difficult to image how much damage this can do to your lake without seeing it. We continue to work with the OTC AIS Task Force, OTC COLA, Minnesota COLA, DNR, Minnesota Lakes and Rivers, Otter Tail County,

and the state government to aid us in stopping the spread of this and other AIS. These groups are all working on new methods to help protect our lakes. Some of these items will be featured in this newsletter with others to follow.

We look forward to seeing everyone out enjoying our lakes this summer. The foundation will be sponsoring swimming lessons again this summer. We will also be participating in the Amor Park 100th Anniversary August 11th. Please mark this on your calendar. We invite you to send us your favorite pictures of our lakes for publication in the newsletter. You may forward them to any of the directors. Please remember these are your lakes to enjoy! It is everyone's responsibility to care for and respect our lakes. With everyone's help our lakes will be enjoyed by many generations down the road.

Have a great summer!  
Scott

## Minnesota's Lake Associations: Who They Are And What They Do

Source: MN Lakes & Rivers Advocates

The study, "Minnesota's Lake Associations: Who they are and what they do," was conducted by researchers at Concordia College, Moorhead, on behalf of Minnesota Lakes and Rivers Advocates (MLR), a non-profit organization with members statewide that is based in the Twin Cities. The research study was funded by a small grant from MLR, with matched funding provided by Concordia College's Office of Undergraduate Research.

### Key findings from the study include:

- Collectively, the 500+ Minnesota lake associations donate about \$6.25 million, annually, to the care of Minnesota's lakes.
- Collectively, the 500+ lake associations in Minnesota contribute about 1.2 million volunteer hours annually to lake conservation activities, including AIS inspection, attendance of meetings, water quality testing, and community education/outreach activities.
- The top 3 concerns of lake associations in Minnesota are: AIS, overall water quality, and runoff control.
- Most respondents agree or strongly agree that their associations

face hurdles in becoming more engaged in lake conservation activities.

• The top 3 challenges that Minnesota's lake associations face as they work on achieving their goals are: Inadequate member participation (i.e. the needs far exceed the available human capital), feel that they are not being heard/taken seriously by the DNR, and the aging population of lake property owners.

• Most respondents do not agree that their lake associations are authentically included in the lake planning process.

• Most respondents do not feel that their lake associations have real authority over the lake.

• Most respondents do not think that the DNR has sufficient lake management policies in place.

### According to the study:

- A total of 250 participants responded to the survey.
- The majority (71%) of the respondents were male and ranged in age between 40 and 80 years, with 70% in the age range of 61 to 80.
- 71% of the survey respondents were retired with another 25% employed in occupations that ranged from small business owners

### Did You Know - Most Minnesota Lake Associations Were Formed In The '60s & '70s

The main reason for forming a lake association is the preservation/protection of the lake. Specifically, the top goals most lake associations have are to control aquatic invasive species (AIS) in the lake and to improve the quality of the lake water.

to physicians and professional AIS inspectors.

• The respondents represented lake associations located in various counties across Minnesota, ranging from Rice County in the south to Aitkin and Cass Counties in north central.

• Lake sizes ranged from less than 100 acres to greater than 1000 acres with an average lake size of 600 acres, and an average of 580 residence surrounding the lake.

You can read the complete report at [www.mnlakesandrivers.org](http://www.mnlakesandrivers.org).



The next time you see flashing lights up ahead, remember to move over. According to Minnesota Statute 169.18s11: *When approaching and before passing an authorized emergency vehicle with its emergency lights activated that is parked or otherwise stopped on or next to a street or highway having two lanes in the same direction, the driver of a vehicle shall safely move the vehicle to the lane farthest away from the emergency vehicle, if it is possible to do so.*

### To put it simply:

- If you are traveling on a roadway with two or more lanes, you must keep a full lane away when passing a stopped ambulance, fire truck, tow truck or law enforcement vehicle.
- If you are not able to safely move a lane away, reduce your speed.
- If you fail to take these actions you could receive a citation.
- Ignoring this law endangers the law enforcement officers, firefighters, emergency medical personnel, and tow truck drivers who provide critical — and sometimes lifesaving — services on Minnesota roadways.

## PLEASE KEEP OUR LAKES CLEAN

Anything and everything from wooden fish house blocking materials to empty propane cylinders, to plastic bottles, to pop cans, to papers, to bags of human waste are left on lakes.

### Do Your Part And Clean Up Before Leaving The Lake!!!



### OTC On Ice Held Feb. 3 & Feb. 4

OTC on ICE was held February 3rd and 4th on Otter Tail Lake to kick off 150 years of Otter Tail County. Events and activities were offered for the whole family. This included vintage snowmobile rides, ice golf, a polar plunge, bean bag tournament, sleigh rides, and so much more. Food, beverages, as well as live music from Motu, Aaron Simmons, Ashley Hanson & Andrew Gaylord, 32 Below and the Johnny Holm Band. On Sunday there was a big tailgate/viewing party for the "big game".

This was truly a one-of-a-kind experience with temperatures below zero.



Tents for the OTC On Ice - Photos taken by Ken Wentz

## Don't Feed The Wildlife

Please do not feed the ducks, geese, swans and other birds at the lake. This is not only harmful to the bird, harmful to people, but also annoying to you and your neighbors.

Offering bread, crackers, chips, crisps, donuts, cereal and popcorn is actually unhealthy and potentially dangerous for the birds. Bread is a great source of carbohydrates but they offer little nutritional value. In fact, its the equivalent to junk food to the birds.

### Why is it harmful to the wildlife?

- This type of food can be fattening and make it harder for the birds to fly and otherwise evade predators.

- The babies do not learn to forage for natural foods, therefore when they are alone in their natural element they may be unable to find food for themselves.

- Soggy, rotten, uneaten bread is unsightly and can create noxious odors as well as leading to greater algae growth that can clog waterways and crowd out more desirable plants.

- Increased feces and diseases. Wildlife with a carbohydrate-rich diet leads to greater defecation,

and the feces easily harbors bacteria responsible for numerous diseases, including avian botulism. Second, moldy bread can cause aspergillosis, a fatal lung infection that can decimate entire duck and waterfowl flocks.

### Why is it annoying to you and your neighbors?

- The mess that these birds cause is very undesirable on docks, the beach, water toys, boats, pontoons, etc.

- Swimmer's itch is a skin rash caused by a parasite. The parasites get into the lakes from the droppings of water birds. Their normal life cycle involves birds and snails. It dies off quickly in human skin. Swimmer's itch is the body's allergic reaction to the parasite.

- Leftover food also attracts pests such as rats, mice and insects.

Keep this in mind when you are thinking about feeding the ducks, geese, swans and other birds. Do you want to harm them? Do you want to clean up the mess? Do you want to deal with you or your grandchildren having Swimmer's Itch? Let the birds feed themselves.

## Starry Trek 2017

Source MAISRC

On August 5, 2017, two hundred volunteers turned out across the state to participate in the inaugural Starry Trek! After being trained to identify Starry stonewort, volunteers fanned out and searched 211 public access on 178 lakes statewide. The Minnesota Department of Natural Resources confirmed one new finding of starry stonewort, in Grand Lake in Stearns County. This is the first new confirmation of starry stonewort in a Minnesota lake in 2017.

The lakes that had been searched were prioritized as potentially high-risk for a starry stonewort infestation based on a model created by MAISRC researchers along with local use information from Starry Trek local coordinators. The model took into account several factors such as temperature, precipitation, and pH.

"With over 13 million acres of surface water in Minnesota, it's incredibly difficult for state and local officials to examine every lake and river reach for invasive species," said Megan Weber, MAISRC Extension Educator. "We need as many eyes on the water as possible, and that's where citizen scientists come in."

Starry stonewort is an invasive algae that was first found in Lake Koronis in 2015 and has since been found in ten Minnesota lakes, including Grand Lake. Research into control options is ongoing at the Minnesota Aquatic Invasive Species Research Center.

"Although we were hoping to find no new populations, we are glad this one was discovered early, thanks to the people who participated in Starry Trek," said Heidi Wolf, DNR invasive species unit supervisor. "We're also encouraged that

there hasn't been a greater number of lakes found to have starry stonewort during this major search."

Starry stonewort can grow tall and dense, forming mats on the surface that interfere with recreation and potentially displacing native plant species.

"This huge statewide search effort would not be possible without the help of the local coordinators from each participating county and the many volunteers who participated in the event," added Weber. "They are truly making a difference in the health of Minnesota's lakes and rivers."

Stay tuned for more information about Starry Trek 2018!

### Starry Trek 2017 Stats

- 20 counties participated
- 200 volunteers statewide
- 178 water bodies surveyed
- 211 public accesses checked
- 1 new starry stonewort infestation discovered

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## Amor Township

Amor Township elections will be held on March 13, 2018. Polls will be open from 4-8pm at the Town Hall and the annual meeting will follow at 8:05pm.

Current Amor Township Board Members are Chairman: Mike Holstrom; Supervisors: Eric J. Roberts & Val Dietz; Clerk: Brenda Hildebrand and Treasurer: Lori Holmgren



**FIGHT THE SPREAD OF AQUATIC INVADERS**

**REMOVE** PLANTS, ANIMALS AND MUD FROM ALL EQUIPMENT.

**DRAIN** ALL WATER FROM YOUR BOAT AND GEAR.

**DRY** EVERYTHING THOROUGHLY WITH A TOWEL.

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Your confidence and satisfaction is **IMPORTANT & GUARANTEED!**  
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## Amor Organized In 1879 And Was Named For The Latin Word Meaning "Love"

Save The Date!  
**100-Year Celebration**  
for Amor Park  
will be held on  
**August 11, 2018**  
Watch for more details.



Pictured left to right: Val Dietz, Mike Holstrom, Chris Schuelke, Mickey Hanson, Hanson, Joel Hanson, Crysta Hanson

## Dedication For The Shellman Home

The Dedication for the Shellman Home was held September 13, 2017 during the Amor Township monthly meeting. Chris Schuelke, Executive Director of the Otter Tail County Historical Society was present for the dedication.



The cabin was built in the 1870s by August Shellman. Important decisions shaping the township were made in this cabin, including the naming of the township in 1889 as well as where to put the cemetery and school. To help preserve this history the Amor Township board put \$5,000 toward moving the cabin next to the township garage and restoring it.

Chuck Erickson, who was on the township board, had found the cabin was for sale by owners, Brenden and Julie Bleess. He asked Bill Hanson to oversee the restoration project as Bill had owned the place in the 1970s and 1980s. This "labor of love" project began in 2007 and took more than 2-1/2 years to finish. Hanson and volunteers tore off the modern additions to get it back to its original cabin.

The Shellman Home sits north of Zion Lutheran Church in Amor Township. People who wish to tour the building can contact Zion Lutheran Church or the Amor Township Hall to arrange a visit.

## 2018 CALENDAR OF EVENTS

Feb. 28-Mar. 1	Aquatic Invaders Summit III, Minneapolis	July 19	COLA Member Meeting*
March 9-10	Lakes Area Home & Cabin Show, PACC	July 19-22	East Otter Tail County Fair, PHM
March 20	Women's Self Defense Class, BL School	July 23-29	Dance BARN Festival & Activities, BL
March 22	OTLPOA Board Meeting*	July 26	OTLPOA Board Meeting*
April 7	Maple Syrup Demonstration, MSP	July 27-29	Wenonga Days, BL
April 19	COLA Member Meeting*	July 27	Tuffy Nelson Golf Classic, PHM
April 21	Walk for Glendalough, GSP	July 27	Pebble Lake Youth Triathlon, FF
April 26	OTLPOA Board Meeting*	July 28	Hoot Lake Triathlon, FF
May 12	Fishing Opener	July 28	Art in the Park, FF
May 12-13	Take A Mom Fishing Weekend	Aug. 3-4	Perham Crazy Days
May 17	COLA Member Meeting*	Aug. 3-5	Flekkefest, Elbow Lake
May 24	OTLPOA Board Meeting*	Aug. 5	Classic Car Show, FF
May 26	Bass Fishing Opener	Aug. 9-12	Looney Daze, Vergas
June 2	Lake Region Run, FF	Aug. 10-11	Otterfest
June 8	NYM Historical Walking Tour	Aug. 11	100 Year Celebration for Amor Park
June 8-10	Summerfest, FF	Aug. 11	Art & Craft Affair, BL
June 9	Running Wild Trail Run, MSP	Aug. 16	COLA Member Meeting*
June 9	Ronald McDonald House Ride, NYM	Aug. 17	World Famous Turkey BBQ, Henning
June 9	NYM Great American Think Off	Aug. 18	Watermelon Day, Vining
June 8-10	Take-A-Kid Fishing Weekend	Aug. 18-19	Pioneer Days, PHM
June 13-17	Turtle Fest, PHM	Aug. 23	OTLPOA Board Meeting*
June 15	Relay for Life - West Otter Tail Cty., FF	Aug. 24-25	Barnesville Potato Days
June 20-22	Birak Shrine Circus, FF	Aug. 31- Sept. 3	Steam Threshermans Reunion, Rollag
June 21	COLA Member Meeting*	Sept. 1	Gathering of the Airplanes, BL
June 28	OTLPOA Board Meeting*	Sept. 7-9	LRPTA, Dalton
June 30	OTLPOA Annual Meeting, Zion Church,	Sept. 20	COLA Member Meeting* TBD
June 30	Kinship Average Joe Triathlon, PHM	Sept. 20	OTLPOA Board Meeting* TBD
July 6	Summer Celebration, NYM	Sept. 22	Central Lakes Cycle Duathlon
July 6	Lund Mania Fishing Tournament, OTL	Oct. 6	I Outran the Hairy Man, Vergas
July 6	Fish House Festival, NYM	Oct. 12	Brewers Fest, FF
July 12	Shop, Move N Groove, FF	Oct. 25	OTLPOA Board Meeting*
July 13-14	Relay for Life, - East Otter Tail, PHM		
July 13-15	Henning Area Festival		
July 14-15	Phelps Mill Festival, Maine		
July 18-21	West Otter Tail County Fair, FF		

\*Held at the Ottertail Community Room in Ottertail unless indicated by TBD. BL - Battle Lake, FF - Fergus Falls, GSP - Glendalough State Park, MSP - Maplewood State Park, NYM - New York Mills, OTL - Otter Tail Lake, PHM - Perham.

## Become An AIS Detector In 2018!

Submitted by Christine Lee,  
Communications Specialist, Minnesota  
Aquatic Invasive Species Research Center

If you're looking for a fun way to get involved with your community and help protect area lakes, consider joining the AIS Detectors program this spring. The program was created by the Minnesota Aquatic Invasive Species Research Center and University of Minnesota Extension, and trains participants in:

- The basics of aquatic ecology
- AIS identification, impacts, and biology
- Minnesota rules and regulations
- Preventing the spread of AIS
- Reporting

Upon completing the training, participants are equipped to volunteer around the state and make a difference in the areas of citizen science, outreach and education, stewardship, and support of AIS programs.

As a participant, you'll first take an online course that can be completed on your own time from home, at a public library, or anywhere else with access to the internet. Then, you'll attend one in-person, full day workshop where you'll apply the knowledge and skills that you learned in the online course. Workshops will be held on the following days:

- April 20 in Arden Hills
- April 27 in Victoria
- May 4 in Owatonna
- May 11 in Willmar
- May 17 in Brainerd
- June 1 in Duluth

Learn more details about the program and find information about registration at [www.AISdetectors.org](http://www.AISdetectors.org).

# Otter Tail Lake Property Owners Association, Inc. Board Meeting Minutes August 24th, 2017- 7:00pm at the Ottetail Community Center

**1. CALL TO ORDER/ROLL CALL:** President Simdorn called the meeting to order at 7pm. Board members present were: Simdorn, Wentz, Wing, Kemling, Johnson, Cave, Carlisle, Ness, Hunke, Feters, Synder, Bope and Rizk.

**2. APPROVAL OF AGENDA:** Motion made by Wentz, second by Wing.

**3. GUEST SPEAKER:** Steve Nelson from Glendalough State Park. They are starting a fundraising campaign to build a visitor center.

**4. APPROVAL OF MINUTES:** Motion made by Carlisle, second by Wing.

- July 27th, 2017 board minutes

**5. FINANCIAL REPORT:** Motion made by Wing, second by Cave.

• Motion made by Carlisle, second by Kemling to transfer the CD from Battle Lake 1st National Bank to the Ottetail City 1st National Bank.

**6. APPROVAL OF BILLS:** Motion made by Wentz, second by Kemling.

- Secretary \$400
- The Midweek, Inc \$1,261.45 for August Lakeshore News

**7. PRESIDENT'S REPORT:** President Simdorn wanted to thank every board member current and past for all their years of dedication and service to our organization. A special thank you to Ken Wentz for the past three years of service as our president.

**8. COMMITTEE REPORTS:**

• Membership Committee – Wentz, Snyder – We have members 1046 members. 2018 membership drive information will be set to Otter Tail Power mid-December to be mailed out in early January.

• Auditing/Finance/Budget Committee – Steeves, Simdorn, Carlisle, P. Johnson, Bope

• DNR & Government – Steeves, Carlisle, Kemling – Wright County Regional Inspection Program was set to hold their town hall meeting. It was decided at the last minute to cancel the meeting and handed out packets of information.

• Water Testing/COLA – Wing, Wentz, Carlisle – water clarity on Otter

Tail Wing 9ft, and Blanche Wentz 10ft.

• Communications Committee –

i. Lakeshore News – Steeves, Wentz – Thank you to all the board members who submitted photos for this past year. Our next issue will be mid-February, so please take photos throughout the fall and winter and send them in.

ii. Website – Bope, Wentz – Updates are needed and will be completed soon.

• Worm Committee – Steeves, Feters, Wing, Wentz

• Ottetail Wastewater/Sewer District Committee – Simdorn, Bope

• Foundation – Steeves, Feters, Carlisle

**9. OLD BUSINESS:**

• Rob Nelson has submitted his letter of resignation from our board. Motion made by Hunke, second by Wing.

• Roger Anderson from Otter Tail Lake would like to join the association board as Rob's replacement. Motion made by Bope, second by Carlisle.

• Foundation board needs some members added to it and according the by-laws the association appoints the new members.

• David Spies, Mark Olson, Larry Krohn, Howard Maki and Rob Nelson would be a great addition to the foundation board. Motion made by Feters, second by Wentz to appoint all five to the foundation board.

• 2017 budget review will become the 2018 budget. Motion made by Hunke, second by Wentz.

**10. NEW BUSINESS:**

**11. OTHER BUSINESS AND ANNOUNCEMENTS:**

• The next meeting will be September 21 for water testers. 6pm social, meeting 6:30, dinner 7pm at Beach Bums

• October 26th, 2017 board meeting Ottetail City Community Room 7pm.

• 2018 Annual Meeting will be held at the Zion Lutheran Church on June 30th, 2018.

**12. ADJOURNMENT** Motion made by Kemling, second by Carlisle.

# MARK YOUR CALENDAR

## 2018 Upcoming OTLPOA Board Meetings

March 22 • April 26 • May 24 • June 28  
• July 26 • Aug. 23 • Sept. 20 TBD • Oct. 25  
7pm • Ottetail Community Center (103 Lake Ave. S)

## Annual Meeting June 30

Zion Lutheran Church, Amor

[www.otlpoa.com](http://www.otlpoa.com)

## Winter Recreation in Glendalough

Information submitted by Dan Malmstrom

Did you know that you can rent cross country skis, shoes and poles for \$10 for an entire day in Glendalough? What a bargain! You will also need a \$6 ski pass which gives you access to all of the groomed trails in the park. Snowshoes are available for \$6/day.

The rentals are available at the Trail Center, which is equipped with restrooms, tables, comfy chairs, and plenty of room to change clothes and warm up. Follow the Glendalough Trail on Facebook and [www.morethanatrail.com](http://www.morethanatrail.com).

If you are interested in renting winter gear in the park, call the local Park Office at 218-864-0110 before your outing. If your outing is spontaneous, stop by the Park Office before heading to the Trail Center. Staff generally posts a cell number if they are out working in the park.

# 3RD ANNUAL BIRAK SHRINE CLUB GO KART RAFFLE

**Grand Prize**  
2018 TrailMaster Challenger  
150X UTV Side-by-Side &  
2018 Bear Track Trailer  
(MSRP \$7,900)

**TICKETS:**  
\$10<sup>00</sup>

LIC. #X-56021-18-004  
Tickets For the UTV  
& Bear Track Trailer  
available at  
Minnesota Motor Company  
Auto Glass & Accessories  
or see a Birak Shriner



You can view this prize at  
Minnesota Motor Company Auto Glass & Accessories, Fergus Falls

Drawing held Wednesday, June 20, 2018 at 8:45pm  
during the Shrine Circus show at Otter Tail County Fairgrounds  
Must be 18 years or older to purchase ticket or win prize. Ticket purchase not tax deductible. Winner responsible for any applicable fees or taxes.

**NEED NOT BE PRESENT TO WIN**  
ALL PROCEEDS TO BENEFIT ZUHRAH TEMPLE AND BIRAK SHRINE CLUB



Creek and Dam -  
Blanche Lake

Photos provided by Ken Wentz

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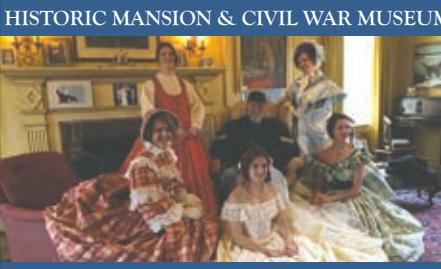
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**Did You Know?**  
 Minnesota law requires that watercraft and motor vehicles (including cars, trucks, snowmobiles and ATVs) that sink in a lake or river be removed by the owner within 30 days. Owners must also notify the county sheriff within 48 hours. Otter Tail County Sheriff's Office phone number is 218-998-8555. If the watercraft or vehicle is not removed - the local unit of government can remove it and charge the owner 2-5 times the cost of removal.

**WE NEED YOUR PHOTOS!**  
 Please submit to [secretary@otlpoa.com](mailto:secretary@otlpoa.com) and include a byline and brief description

## Aquatic Invaders Summit III Held February 28-March 1

Minnesota continues to battle the various Aquatic Invasive Species (AIS) that threaten all facets of the state's natural water resources and its estimated \$12.5 billion-plus tourism industry. This includes resorts, fishing, swimming, boating, and the value of private and public lakeshore property. A wide range of leading scientists, academics, AIS experts, state and local government and tribal officials and concerned citizens from across Minnesota and elsewhere will gather for the Aquatic Invaders Summit III. This Summit will be held on February 28-March 1, 2018 at the Earle Brown Heritage Center, 6155 Earle Brown Dr., Minneapolis, MN.

The event will feature for the first time a Live Streaming option for people who can't be there in person. Online access to the event from your computer, laptop, tablet or smart phones will allow remote participation including the option of asking questions via a live chat feature. Online attendees also will have access to select sessions as well as the opportunity to view interviews and short video messages between sessions.

The event will focus on the latest AIS developments and emerging Best Management practices, including:

- A broad discussion on climate impacts and AIS, with a Day One keynote and panel discussion led by former WCCO-TV news anchor and investigative reporter, Don Shelby.
- A breakout session called "Carpeggedeon" that explores the experimental use of native pathogens to kill carp and perhaps one day zebra mussels.
- It will take a hard look at the significant impacts that the state's 500+ lake associations have had and other collaborative models to combat AIS.
- The impacts of AIS on walleye fisheries and the role of anglers to control the spread of AIS.

• A first-time legal panel discussing jurisdictional issues from the Federal level to the local county level.

• University of Minnesota professor and founder and former Director of the University of Minnesota's Aquatic Invasive Species Research Center, Dr. Peter Sorensen, will address the issue, should Minnesota establish freshwater conservation areas to protect lakes for the future?

• **GOOD DOG!** The Benefits of AIS Enforcement (with demonstration of zebra mussel-sniffing dogs): Brent Grewe, MN DNR Enforcement Division, will talk about tangible enforcement

**Who Should Attend?**  
 Minnesota local units of government and their partners, **LAKE ASSOCIATIONS**, service providers, sporting groups, tourism interests, resorts, and business organizations—**ANYONE INTERESTED IN PREVENTING THE SPREAD OF AQUATIC INVASIVE SPECIES IN MINNESOTA**

**Why Attend?**  
 Many aquatic invasive species (AIS) are now present in Minnesota, most notably Eurasian water milfoil, zebra mussels, and spiny water flea. A new nasty invader—starry stonewort—has recently appeared and others are on Minnesota's doorstep. These invaders threaten the current and future recreational enjoyment of our state's waters and the economic sustainability of many communities dependent on water and its adjacent natural resources. Not only can AIS impede recreation, but they can change the ecosystem balance, potentially forever.

benefits and illustrate how trained zebra mussel-sniffing dogs have become part of the DNR's enforcement regimen.

"The AIS Summit III is an ideal crossroads for concerned citizens, elected policy-makers, tribal resource managers and leaders, government officials and leading experts to connect on issues about AIS in Minnesota and the ways to mitigate and manage the many issues this prevailing challenge presents," says Jeff Forester, Executive Director of Minnesota Lakes and Rivers Advocates (MLR), the main sponsor of the event. "Major new studies and exploratory new methods like the recent Concordia Lake Association Study as well as the Mille Lac's auditor's insights about loss of lakeshore property values, and the study being done by the

DNR as follow-up on a Walleye study in Wisconsin that found that we may lose 96% of walleye lakes in the coming decades are just part of the wide-ranging topics that will inform the choices we need to make for the future preservation of our natural resources."

According to Stephanie Showalter Otts, the Director of The National Sea Grant Law Center (NSGLC) and a national legal expert on AIS, "The introduction and spread of AIS can have significant ecological and economic impacts to a state. Controlling the spread of AIS is generally perceived as a non-partisan issue, but finding common ground regarding the appropriate policy solutions to implement can be difficult. I look forward to sharing what I have learned in my efforts to facilitate collaborative learning and legal problem-solving among several western states in the hope that elected and appointed officials in Minnesota may gain some insights into how to better control the spread of AIS in their communities."

"Legal reform efforts must start with conversations among local and state officials, law enforcement, and county attorneys," Otts adds "to gain an understanding of current statutes, agree on a workable framework to control the spread of AIS, and identify the desired changes in law."

### Are you interested?

The Summit Registration can be found at [aissummit3.mnlakesandrivers.org](http://aissummit3.mnlakesandrivers.org). A list of the breakout sessions can be found here too. If you have any registration questions contact Judy Corrigan at 952-854-1317 or [judy@mnlakesandrivers.org](mailto:judy@mnlakesandrivers.org)

**Hope To See You There!**

## Minnesota's Greatest Natural Asset - Water

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- Provides a deep foundation of our state identity and brand.
- Critical to life.
- It's the **FUNDAMENTAL LEGACY** we will leave future generations who will live in a world of increasing water insecurity.
- AIS threaten the quality of these legacy resources.

### Summit III Highlights:

• Collaboration between public institutions and active citizens is a Best Management Practice in managing AIS that is a capstone of the Summit.

• Starry stonewort, discovered in 2015, has the potential to severely impact Minnesota's \$2.8 billion angling economy, particularly bass and pan fish fisheries. Without a significant and ongoing investment of volunteer hours and money by the Lake Koronis Association, that public access would be unusable.

• The State of Minnesota has made significant and ongoing investments in spurring local innovations and partnerships including The Lessard Sams Outdoor Heritage Council funded an "Innovations Grant" administered by the Initiative Foundation. The County AIS Prevention Aid has also spurred excellent local programs and innovations. These funding streams have unleashed the biggest asset Minnesota has in AIS prevention efforts — **THE MILLIONS OF MINNESOTANS WHO LOVE OUR LAKES AND RIVERS.**

- Offers the latest and most useful applied science.
- Updates on the most innovative programs across the state,
- Opportunities for Continuing Legal Education Credits, with programs focused on writing local ordinances and state laws.
- Time to forge new partnerships and increase the collaboration, consistency and communication in existing partnerships.

## Assistance Is Available For Shoreline Restoration In Otter Tail County

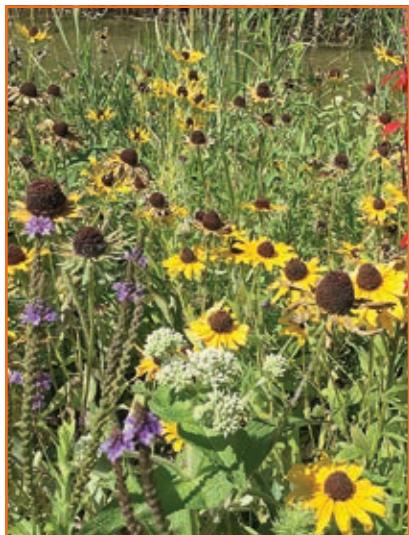
Submitted by Aimee Zimmermann, Shoreland Specialist East Otter Tail SWCD

Winter is a great time to reflect on your shoreline; did your shoreline have damage from high water? Were the waves cutting into your yard? Or maybe you had a water path from the hillside down to the lake? Perhaps you have rip rap, but want to do more to strengthen your shoreline?

These are all common scenarios that our shoreline restoration program addresses, using native plants and biodegradable erosion control material. We also design rain gardens to help control water runoff and sediment from entering the lake. Every project begins with a site visit, so give the East Otter Tail Soil & Water Conservation District a call, and you don't have to wait until spring! We can do site visits in the winter, as long as you can see the tips of the grass blades in your lawn. Our typical installation season is May-June and the fall. There's currently funding available to help with up to 75% of the cost of eligible projects.

You can reach the East Otter Tail Soil & Water Conservation District at 218-346-4260 ext 3 to set up a site visit and ask for Aimee or Liz. If you're located in West Otter Tail, you can still call Aimee or Liz or you can call the West Otter Tail Soil &

Water Conservation District at 218-739-4694 ext 4. Be sure to like our Facebook page to see photos of past projects and what they look like now!



Project on Blanche Lake



Project on Walker Lake



Project on Wall Lake

**Thank You...**  
OTLPOA wishes to thank Rob Nelson for his past years of dedication and service as a Board Member. We would like to welcome him as a Board Director to the Foundation.

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## Decrease In Phosphorus From Wastewater Means Increase In Orwell Lake Water Quality

Provided by Dan Olson, The Minnesota Pollution Control Agency

Orwell Lake in Otter Tail County is meeting water quality standards for nutrients, thanks to major decreases in phosphorus from upstream wastewater treatment plants (WWTPs).

Orwell Lake is a 590-acre impoundment on the Otter Tail River in west-central Minnesota. The lake is a protected wildlife sanctuary, and is popular for fishing and hunting.

The Pelican Rapids WWTP discharges its effluent to the river 30 miles upstream. More than 10 years ago, the MPCA issued a stricter phosphorus limit to the Pelican Rapids WWTP because of increased algal growth in Orwell Lake. Algal blooms can make water unattractive for recreation such as boating and unsuitable for fish and other aquatic life.

Since then Pelican Rapids upgraded its facility, and has reduced its effluent phosphorus concentration and load by more than 90%, from 10-18 mg/L to less than 1 mg/L.

The city of Fergus Falls also discharges its effluent to the Otter Tail River, about 10 miles upstream of Orwell Lake. It too upgraded its facility to meet a stricter phosphorus limit, and has reduced its phosphorus discharge by about 80%, down to less than 1 mg/L.

Recent water monitoring shows that Orwell Lake is meeting nutrient water quality standards for lakes. Prior to the phosphorus limits in the wastewater discharge permits:

Phosphorus levels in Orwell Lake were historically at 75 micrograms per liter. Current levels average about 47 micrograms per liter.

Chlorophyll-a levels averaged 36 micrograms per liter in Orwell Lake, indicating nuisance conditions (chlorophyll-a, the green pigment found in algae, is a way to measure algae levels). Current levels average 12.6 micrograms per liter.

Since these decreases in phosphorus, the river and downstream waters are faring much better. Because Orwell Lake, along with the Dayton Hallow reservoir, are meeting standards, the MPCA does not anticipate more restrictive phosphorus limits for the Pelican Rapids and Fergus Falls WWTPs.

"This is a great example of how cities reducing their phosphorus discharges can make a positive impact downstream," said Mark Schmitt, director of the Municipal Division for the MPCA.



Otter Tail River and Orwell Dam

## MEMBERSHIP APPLICATION

Otter Tail Lakes Property Owners Association Inc.

### 2018 Membership

Annual Dues (Jan.-Dec.) \$ 35.00

• Membership \$25.00

• Foundation \$10.00

TOTAL \$35.00

• Includes \$10 donation to OTLPOA Foundation \$ 35.00

Additional support for the Foundation (tax deductible)

\$10.00 \$20.00 \$50 Other \$

The OTLPOA Foundation was established to obtain financial resources to maintain water quality for recreation, fishing, and enjoyment when Government resources are not provided.

(Total enclosed) \$

Make check payable to: OTLPOA and mail to: PO Box 21, Battle Lake, MN 56515

Or visit [www.OTLPOA.com](http://www.OTLPOA.com) to pay by credit card under the membership section.

(Please return this form to ensure accurate information)

### MEMBER INFORMATION

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

(this the blue house number and street for your lake home)

Summer "mailing" address (5/15 – 8/30): \_\_\_\_\_

(this will be used for the summer Lakeshore News)

(must be valid US Postal deliverable address)

Winter mailing address (9/1-5/15): \_\_\_\_\_

Winter edition of Lakeshore News will be mailed here

Email: (please print legibly) \_\_\_\_\_

### How can the association better serve you?

- If you would like to become an AIS Inspector volunteer for our lakes please contact [inspectors@otlpoa.com](mailto:inspectors@otlpoa.com) if you are interested
- Email [secretary@otlpoa.com](mailto:secretary@otlpoa.com) with any questions or concerns

**VISIT OUR WEBSITE:**  
*www.otlpoa.com*



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**Did You Know?**

The current 2017 fishing license year expires  
February 28th, 2018 for most licenses.

Annual shelter licenses are valid through April 30, 2018.



## 2017 Minnesota Aquatic Invasive Species Research and Management Showcase

The Minnesota Aquatic Invasive Species Research Center Showcase was held September 13, 2017 at the University of Minnesota St. Paul Campus. The day was divided into sessions with researchers presenting their work and taking questions. A lab tour was provided and a poster session concluded the day.

Spencer McGrew, Otter Tail County AIS Specialist and David Majkrzak, past president of Otter Tail County COLA provided a summary on the sessions that they attended. Below are their summaries.

### Spencer McGrew...

**1. "Musseling Out Mussels" presented by Dr. Mike McCartney.** This session provided an overview of the Zebra Mussel research projects conducted by the Research Center. Topics included Zebra Mussel genetic testing and mapping, veliger survivability in residual water (bilge, ballast, live well) and ongoing research on various control methods. The topics discussed were abridged versions of individual presentations. I used this session to guide my attendance of specific sessions later in the day.

**2. "From Little Bugs to Big Fish: Beginning to Understand How AIS Disrupts Sport Fisheries" presented by Bethany Bethke, DNR Fisheries Biologist.** This session was an overview ongoing research DNR Fisheries is conducting regarding the impact of AIS (Zebra Mussel, Spiny Waterflea) on game fish. DNR Fisheries is using historic data from its "Large Lakes Program" to determine if AIS impact fish size. Methods include isotope sampling from fish tissue to determine if AIS is altering the food web, forcing game fish to change their diets and feeding behavior. Results are forthcoming. This is the first DNR effort to relate AIS to game fish populations.

**3. "Getting a Handle on Hybrids: Assessing the Distribution of Hybrid Watermilfoil" presented by Dr. Ray Newman.** This session provided an overview Hybrid Watermilfoil-its biology, spread, and management. Due to hybrid vigor Hybrid Watermilfoil can be more invasive and more resistant to control methods than Eurasian Watermilfoil. My take away from this presentation is that prevention is the key. Managing aquatic plants is expensive, time consuming and control methods can damage native plant communities, making the problem worse (vicious circle).

**4. "A Better Future For Minnesota Lakes, Version 2.0: Zebra Mussels Are Leaving Tracks And We Are Still On It!" presented by Dr. Sophie Mallez.** This presentation provided an overview of the University's effort to genetically map Zebra Mussel populations in Minnesota. The findings suggest that the theory of "super-spreader" lakes does not accurately describe the geographic distribution of Zebra Mussels. The results further suggest that Zebra Mussel population genetics are geographically unique. For example, the population in the Pelican River chain of lakes in Otter Tail County is distinct from the population in the Lake Carlos chain of lakes in Douglas County which in turn are distinct from the population in the Whitefish chain of lakes in Crow Wing County. This suggests that once introduced to a location, spread occurs locally via natural (connected rivers and streams) and manmade (overland transport of boats, docks, lifts and other devices) movement.

**5. "Will AIS Infest Every Lake? Using Mathematical Models to Understand Risk" presented by Dr. Nick Phelps.** This project will aggregate watercraft inspection data and environmental variables (water chemistry, climate) to model the risk of Zebra Mussels infesting new waters in Minnesota. The scope of the project is statewide. Results are forthcoming. Once complete the risk model will be published online as an interactive website.

### David Majkrzak....

**1. Zebra Mussel Update, Dr Mike McCartney.** This presentation summarized the genetic testing, and effort to identify where zebra mussels have moved to and from across Minnesota. To date about 2050 individual zebra mussels have been tested, with the individual markets showing that Minnesota based "super spreader lake" does not exist, but rather the zebra mussels have moved into 5 primary areas around Minnesota from a "unidentified source". However, once a zebra mussel "group" has moved into an area, like the Pelican/Detroit Lakes area, the same zebra mussel markers are found on all the zebra mussels in the area. Additional markers will be used in the future to better identify where zebra mussels have come from to help lower the risk of spread.

**2. How AIS Impact Sport Fishing, Bethany Bethke.** This is new research started to try to measure the impact of zebra mussels and other AIS on walleye in the "9- Large Lakes" of MN. This work is just started (way overdue) and is looking into spiny water flea and zebra mussels on Mille Lacs, and other large Minnesota lakes, as well as doing background work on what is known from other lakes in the nation.

**3. Value of eDNA testing, Dr. Peter Sorensen.** This research primarily targeted carp, by using eDNA tests of samples of water, trying to determine if carp were present in the water body. Because carp are difficult to catch and find in the beginning of an invasion, testing for carp eDNA in the water provides a much earlier detection method. The potential for eDNA to be used for identifying all fish, AIS, and plants in a water sample provides a new and different approach to solving AIS problems. With the use of DNA testing in medical and criminal cases becoming more effective and accurate, the procedure would seem to have a proven record/ability to move into AIS and fish management issues.

**4. Aquatic Plant Invasions, Dan Larkin.** This session looked at eurasian watermilfoil, curly-leaf pondweed and starry stonewort. Starry stonewort has received much attention with its recent spread into lakes in Minnesota, and the limited knowledge across Minnesota. Major water factors affecting starry stonewort risk in lakes are being identified and measured to try to better predict potential spread.

**5. Lake Bottom Core Sampling, Donn Branstrator.** This was an interesting look at what can be learned by examining and time dating the core samples (mud) of lake bottoms. This sediment analysis has shown the ability to look at things like phosphorus levels before "European Settlement-farming", to understand what has actually changed due to land use. Also, spiny water flea cores on Mille Lacs Lake showed that spiny water flea existed in the bottom samples 7 years before they were "discovered" in the lake.

**6. Lab Tour.** This tour of the new Starry Stonewort lab, and other project labs, was informative and gave us a chance to see the actual experiments. It is interesting that at this point, they are having some trouble growing starry stonewort in the lab.

### Final comments

David Majkrzak commented that overall the showcase was well attended and very informative. He would recommend it to everyone interested in AIS issues. Spencer McGrew also said, "the University's work on AIS is extensive, robust and world class. The efforts at MAISRC complement and inform the policies and programs of Otter Tail County's Aquatic Invasive Species Prevention Program."

## Resolve To Suspend Muskie Stocking

On September 26, 2017 the Otter Tail County Board of Commissioners adopted a resolution to request the Minnesota DNR to “stop muskellunge stocking in any and all Otter Tail County lakes for a 5-year period or until such time that sufficient evidence is presented that muskellunge stocking does not adversely affect the ecosystem”. Representatives of numerous Otter Tail lakes were present to support the resolution.

## Test Your Home For Radon

Source Minnesota Department of Health

Radon is an odorless, colorless radioactive gas, and it is the leading cause of lung cancer in nonsmokers. Radon occurs naturally in Minnesota soils, and enters homes through cracks or openings in walls or foundations. The only way to know if your home has high radon levels is to test.

Radon is linked to more than 21,000 lung cancer deaths in the U.S. each year. According to A Breath of Hope Lung Foundation, lung cancer is the world’s deadliest cancer and most people are diagnosed in the later stages when it is difficult to beat. Less than 18 percent of lung cancer patients live five years or more after diagnosis, and 2,500 Minnesotans die each year from lung cancer. Approximately half of those who develop lung cancer never smoked or had already quit.

In homes found to have high radon levels, mitigation typically involves installing a ventilating pipe and fan to pull the gas out of the home. This reduces the amount of radon in the home to safe levels.

Bonnie Mueller, a lung cancer survivor, is sharing her story publicly to raise awareness of lung cancer and radon. After being diagnosed with lung cancer, she tested her home and cabin, learning that her cabin had a very high level of radon.

“One of the many doctors I saw during my initial prognosis asked if I had ever been exposed to radon,” Mueller said. “I didn’t know much about radon, let alone if I had ever been exposed to it. We tested our house and our cabin. The cabin showed we had radon levels four times higher than the action level.”

“I want to encourage everyone to have their house tested,” Mueller said. “The radon system we installed in our house immediately reduced the radon levels. The expense of a radon system is much cheaper than the cost of living with Stage IV lung cancer. Prevention is so much easier and far less painful than the road I have traveled. A simple thing like getting your house tested for radon can make all the difference.”

Radon testing is inexpensive, easy and quick (often just 3-7 days). The best time to test is during the heating seasons, but testing can be done year-round. Renters should also test their homes

## Did You Know? Two Out Of Five Minnesota Homes Have HIGH RADON Levels

or ask their landlords to test, especially those in ground or garden level units.

Test kits are available at city and county health departments, many hardware stores, or directly from radon testing laboratories. A list of participating health agencies and test kit vendors can be found on the MDH website at Local Radon Contacts.

**For Otter Tail and Becker Counties the participating health agencies are -**  
**Otter Tail County Public Health**  
 located at 560 Fir Ave W.,  
 Fergus Falls • 218-998-8320 and  
**Becker County**  
**Community Health**  
 located at 715 Minnesota Ave.,  
 Detroit Lakes • 218-847-5628

Tests should be done in the lowest level of the home that is frequently occupied. If your home’s test results show it is at or above 4 picocuries per liter (or pCi/L), you should install a radon reduction system. MDH has a list of certified radon reduction contractors at Radon Contractors/Mitigation Service Providers.

For more info on radon testing and mitigation, visit Radon in Minnesota Homes at [www.health.state.mn.us/divs/eh/indoorair/radon](http://www.health.state.mn.us/divs/eh/indoorair/radon) or call the MDH Indoor Air Unit at 651-201-4601 or 1-800-798-9050. To learn more about how lung cancer has affected the lives of people, visit A Breath of Hope at [abreathofhope.org](http://abreathofhope.org) or call Nancy Torrison at 952-405-9201.

## Three Ways To Protect You And Your Family From Radon

- Test your home - obtain a test kit
  - Reduce your exposure - reduce radon gas by taking action to reduce radon entry into your home
- Protect your loved ones - tell your family and friends to test so they are not exposed to a deadly gas in their homes.

## Smart Salting Tips That Protect

Source Minnesota Pollution Control Agency

The Minnesota Pollution Control Agency (MPCA) recommends a low-salt diet for our lakes, streams, and rivers. Much like table salt, rock salt’s benefits are peppered with danger. Salt helps melt ice on roads and sidewalks and protects drivers and pedestrians. But when the snow melts, de-icing salt, which contains chloride, runs into nearby bodies of water and harms aquatic wildlife. Chloride accumulates in the water over time, and there’s no feasible way to treat or remove it.

Smart salting strategies can help reduce chloride pollution in state waters, while saving money and limiting salt damage to infrastructure, vehicles, and plants.

Follow these simple tips:

- Shovel. The more snow and ice you remove manually, the less salt you will have to use and the more effective it can be.

- 15 degrees (F) is too cold for salt. Most salts stop working at this temperature. Use sand instead for traction, but remember that sand does not melt ice.

**Did You Know???**  
 It only takes a teaspoon of salt to permanently pollute five gallons of water.

- Slow down. Drive for the conditions and make sure to give plow drivers plenty of space to do their work. Consider purchasing winter (snow) tires.

- Apply less. More salt does not mean more melting. Use less than four pounds of salt per 1,000 square feet. One pound of salt is approximately a heaping 12-ounce coffee mug. Leave about a three-inch space between granules. Consider purchasing a hand-held spreader to help you apply a consistent amount.

- Sweep up extra. If salt or sand is visible on dry pavement it is no longer doing any work and will be washed away. Use this salt or sand somewhere else or throw it away.

## It’s The Law Use Zero-Phosphorus Lawn Fertilizers



Check the fertilizer bag for a set of three numbers showing the percentage of nitrogen, phosphorus and potassium. Buy a bag with a “0” in the middle.

By law since 2005, Minnesota homeowners cannot use fertilizers containing phosphorus, except for exemptions for new lawns or when a soil test indicates a need for phosphorus. In much of Otter Tail County, soils are naturally high in phosphorus so lawns generally don’t need extra phosphorus.

Phosphorus that runs off your lawn can end up in the water, causing excess algae that ruins boating and swimming and harms fish. It can also impact drinking water. Curb the pollution - reduce phosphorus and other pollutants when shopping for fertilizer, buy a brand that has a middle number of zero i.e. 22-0-15. The law does not prohibit retailers from selling phosphorus fertilizers, and even though most retailers are carrying more zero phosphorus fertilizers, **IT’S UP TO YOU TO MAKE SURE YOU COMPLY WITH THE LAW.**

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...Special Thanks To Our 2017 Water Testers continued from page 1

Why are these samples so important? These samples help check and document our water quality. The results from these samples help to tell us how productive and fertile a lake is, determine the likelihood of impacts on water quality, used to educate lake property owners, used to promote stewardship on shoreline and help identify lakes for the impaired waters list.

What is Phosphorus and Chlorophyll-A? Phosphorus is a nutrient needed for plant growth. Phosphorus has a direct effect on plant and algal growth in lakes – the more phosphorus is available, the more plants and algae there are in the lake. Phosphorus originates from a variety of sources, many of which are related to human activities such as human and animal wastes, soil erosion, detergents, septic systems and runoff from farmland or fertilized lawns. If phosphorus inputs are decreased or eliminated, less plants and algae are able to grow and water quality can improve. Chlorophyll-a is the pigment that makes plants and algae green. This pigment is what allows plants and algae to photosynthesize. In photosynthesis, plants use the sun's energy to convert carbon dioxide and water into oxygen and cellular material. Chlorophyll-a is tested in lakes to determine how much algae is in the lake. Algae is important in lakes because it adds oxygen to the water as a by-product of photosynthesis. On the other hand, if there is too much algae in a lake it can produce a foul odor and be unpleasant for swimming. Chlorophyll-a concentration can tell you a lot about the lake's water quality and trophic state. We can compare annual mean chlorophyll-a values to see if the amount of algae in the lake per year is increasing, decreasing, or staying the same.

Also one of the simplest and most effective tools for estimating a lake's productivity is the Secchi disk depth. The Secchi depth is a measurement of water clarity. Water transparency directly affects the amount of light penetration into a lake. Algae and suspended particles from erosion make the water cloudy and decrease the Secchi transparency in a lake; therefore, the lower the Secchi depth, the higher the algal concentration and lake productivity. A lake can vary in water transparency seasonally, so it is important to take numerous Secchi disk readings per summer. If Secchi depth is measured in a lake for numerous consecutive years, the data can be analyzed for water quality trends. If a significant trend indicates increasing Secchi depth over time, the water quality is improving. If a significant trend indicates decreasing Secchi depth over time, the water quality is declining.

Here's the 2017 results for levels of phosphorus, chlorophyll-A and secchi ft. on Blanche, Deer, Long, Otter Tail, Pelican Bay, Round and Walker Lakes recorded at www.rmbel.info.

**Blanche Lake - Tester: Ken Wentz, Site 202**

	TP ug/L	ChlA ug/L	Secchi Ft.	TSI Phos.	TSI ChlA	TSI Secchi Ft.	TSI Avg.
6/18/17	13	3.56	11.5	41	43	42	42
7/16/17	17	3.56	9	45	43	45	44
8/20/17	15	3.12	10	43	42	44	43
9/17/17	12	4.45	12.5	40	45	41	42
<b>Historical Mean</b>	<b>14.3</b>	<b>3.7</b>	<b>10.8</b>	<b>42.3</b>	<b>43.3</b>	<b>43</b>	<b>42.8</b>

**Deer Lake 56-0298 - Testers: Chuck Duncan, Ray Long, Site 201**

	TP ug/L	ChlA ug/L	Secchi Ft.	TSI Phos.	TSI ChlA	TSI Secchi Ft.	TSI Avg.
6/18/17	16	7.12	10.5	44	50	43	46
7/16/17	13	5.34	10	41	47	44	44
8.20.17	23	5.34	8.5	49	47	46	47
9/17/17	18	3.56	12	46	43	41	43
<b>Historical Mean</b>	<b>17.5</b>	<b>5.3</b>	<b>10.3</b>	<b>45</b>	<b>46.8</b>	<b>43.50</b>	<b>45</b>

**Long Lake 56-0210 - Tester: Paul Oxberry, Site 202**

	TP ug/L	ChlA ug/L	Secchi Ft.	TSI Phos.	TSI ChlA	TSI Secchi Ft.	TSI Avg.
5/21/17	133	40	1	75	67	77	73
6/19/17	193	53.4	1	80	70	77	76
7/16/17	197	80.1	1	80	74	77	77
8/21/17	134	53.4	1	75	70	77	74
9/17/17	123	60.1	1	74	71	77	74
<b>Historical Mean</b>	<b>156</b>	<b>57.4</b>	<b>1</b>	<b>76.8</b>	<b>70.4</b>	<b>77</b>	<b>74.8</b>

**Otter Tail Lake - Testers: Marcus Wing, Dan Carlisle & Kate Grandison, Site 206 & 208**

	TP ug/L	ChlA ug/L	Secchi Ft.	TSI Phos.	TSI ChlA	TSI Secchi Ft.	TSI Avg.
6/21/17 206	28	10.2	13	52	53	40	48
6/18/17 206	14	4	15	42	44	38	41
6/18/17 208	13	4	14	41	44	39	41
7/16/17 206	14	2.67	11	42	40	43	42
7/16/17 208	12	4.9	12	40	46	41	42
8/20/17 206	16	7.12	9	44	50	45	46
9/17/17 206	16	4.45	12.5	44	45	41	43
<b>Historical Mean</b>	<b>16.1</b>	<b>5.3</b>	<b>12.4</b>	<b>43.6</b>	<b>46</b>	<b>41</b>	<b>43.3</b>

**Pelican Bay - Tester: RMB Staff, Site 201**

	TP ug/L	ChlA ug/L	Secchi Ft.	TSI Phos.	TSI ChlA	TSI Secchi Ft.	TSI Avg.
5/31/17	45	12.5	8	59	55	47	54
6/22/17	27	3.56	10	52	43	44	46
7/13/17	23	10.7	11	49	54	43	49
8/31/17	20	7.12	10	47	50	44	47
9/28/17	21	22.2	6.5	48	61	50	53
<b>Historical Mean</b>	<b>27.2</b>	<b>11.2</b>	<b>9.1</b>	<b>51</b>	<b>52.6</b>	<b>45.6</b>	<b>49.8</b>

**Round Lake 56-0522 - Pete Johnson, Site 201**

	TP ug/L	ChlA ug/L	Secchi Ft.	TSI Phos.	TSI ChlA	TSI Secchi Ft.	TSI Avg.
5/24/17	35	6.68	7	55	49	49	51
6/27/17	21	8.01	8	48	51	47	49
7/25/17	28	5.34	5	52	47	54	51
8/23/17	43	13.4	4.5	58	56	55	56
9/20/17	54	32	4	62	65	57	61
<b>Historical Mean</b>	<b>36.2</b>	<b>13.1</b>	<b>5.7</b>	<b>55</b>	<b>53.6</b>	<b>52.4</b>	<b>53.6</b>

**Walker Lake - Tester: Stan Satre, Site 201**

	TP ug/L	ChlA ug/L	Secchi Ft.	TSI Phos.	TSI ChlA	TSI Secchi Ft.	TSI Avg.
5/22/17	48	7.12	10.5	60	50	43	51
6/19/17	26	5.78	9	51	48	45	48
7/17/17	56	9.79	5.5	62	53	53	56
8/20/17	50	27.6	3.5	61	63	59	61
9/17/17	36	14.7	4.5	56	57	55	56
<b>Historical Mean</b>	<b>43.2</b>	<b>13</b>	<b>6.6</b>	<b>58</b>	<b>54.2</b>	<b>51</b>	<b>54.4</b>

**TP ug/L - Phosphorus, Total (TP) Data, ug/L** - Phosphorus: a nutrient needed for plant growth. Phosphorus can enter a lake through runoff from manure and fertilizer or through seepage from leaking septic and holding tanks.

**ChlA ug/L** - Chlorophyll-a: the pigment that makes plants and algae green. Chlorophyll-a is measured in lakes to determine algal concentration.

**Secchi Ft.** Secchi Depth: a measure of water clarity that can indicate the overall health of a lake. A black and white metal disc is lowered into the water on a rope until it can't be seen anymore and raised to the point it can be seen. The depth of the disk to the surface of the water is the Secchi Depth.

**TSI:** Trophic State Index is a measurement of overall lake productivity (nutrient enrichment). The overall TSI of a lake is the average of the TSI for phosphorus, chlorophyll-a and secchi depth.



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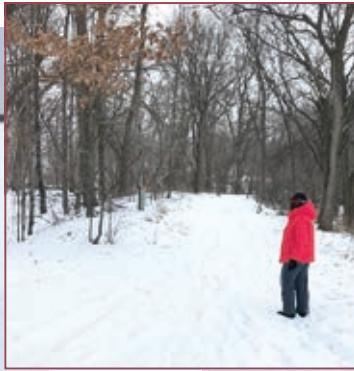
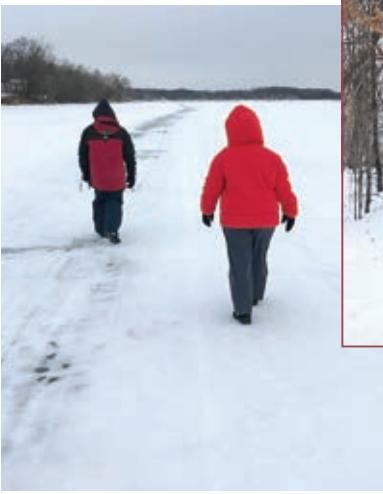
Ottertail City: Fridays at  
 First National Bank

*Matthew S. Van Bruggen*      *Daniel T. Carlisle*

**Report Fish Kills And Dead Mussels**

If you see a fish kill event or find dead native or zebra mussels while you're out and about this summer, please report them to MAISRC. Dead specimens can provide clues about greater ecosystem-level issues and about specific pathogens that are present. To report dead mussels, send an email to sadowsky@umn.edu with your GPS coordinates or detailed site description, and photos of the specimens.

## Nothing More Peaceful Than Going For A Walk



Photos provided by Ken Wentz



## Estes Trail Center Gains Statewide Support

Submitted by Dan Malmstrom



Nearly a year ago at the 2017 Walk for Glendalough, an exciting development project was unveiled – the proposed Estes Trail Center. This innovative visitor and interpretive facility was designed in collaboration with the Minnesota DNR to address the growing attraction of the park and bike trail.

Within a few weeks, informal charitable requests resulted in more than \$185,000 of donations and pledges to the project from the Cowles and Ballantine families and a few local philanthropists, with another \$150,000 likely to materialize. The Cowles and Ballantine families originally donated their family retreat to the Nature Conservancy in the early 1990's, which has since become Glendalough State Park. They remain strong advocates of the park.

The proposed Estes Trail Center is also moving forward with statewide support. The Glendalough Citizens Advisory Board authored a \$750,000 grant application for the trail center with the Minnesota Parks and Trail Council last August. The council is made up of parks and trail advocates from around the state, and reviews candidate projects for MN Legacy Amendment funding.

The council's board of directors was impressed with the collaborative research, design, and planning with the DNR, and the local financial commitment. They proceeded to designate the Estes Trail Center as a high priority project for their legislative

agenda, and will provide advocacy for the project with the DNR during the 2018 bonding session.

Minnesota Parks and Trail officials also encouraged involvement from our local legislators – Rep. Bud Nornes and Sen. Bill Ingebrigtsen – to author bonding bills for the trail center. A drafting session was conducted in Fergus Falls, and the resulting house and senate bills have been submitted to the Legislative Revisor's Office and will be introduced on the first day of the 2018 legislative session.

As a reminder, the proposed Estes Trail Center is vitally important as park growth eclipsed 85,000 visitors in 2017, up from about 50,000 in 2013. The park continues to garner statewide attention, and was recently featured on the front cover of the Bike MN Resource Guide, a high profile statewide publication. The trail center is designed to enhance the attraction of Glendalough, provide interpretation for visitors and students from the eight school districts using the park, and stay ahead of projected growth as regional trails will bring even more families to the park and Otter Tail County. The center is also designed to offer winter facilities for campers and centralize rental services and parking; all with a keen eye toward preservation of the historical buildings that were not intended to operate as visitor centers.

You'll be hearing more information about the trail center at the Walk for Glendalough on April 21st.

## Women's Self Defense Class

A Women's Self Defense Class will be held on Tuesday, March 20 from 6:30-8:30pm at the Battle Lake Public School.

This event, sponsored by Someplace Safe and Battle Lake Community Education, is free of charge. Donations to Someplace Safe are accepted and appreciated. Some suggestions include hand soap, laundry soap, toothbrushes, toothpaste, lotion, shampoo, etc.

The instructors will be Deputy Robert Huckleby & Deputy Chris Peterson from the Otter Tail County Sheriff's Department. This class is recommended for ages 13 and older.

Register in advance by contacting the Battle Lake Community Education Office at 218-862-4603, emailing communityed@isd542.org. or calling Someplace Safe at 218-770-4256. You may also register at the door starting at 6pm.

## MAISRC Celebrating Its Fifth Anniversary

Submitted by Christine Lee, Communications Specialist MAISRC

The Minnesota Aquatic Invasive Species Research Center (MAISRC) celebrated its fifth anniversary in December. When we were founded, we knew that developing much-needed science to solve our AIS problems would not be easy or fast, and that expectations were high. But after only five years, we're proud of the significant progress made toward our goals – solutions are within reach.

To mark MAISRC's fifth anniversary, we're pleased to share with you a report highlighting our research findings and plans for the future. As you'll see, incremental steps are beginning to lead to big wins.

You can read the complete report at [z.umn.edu/MAISRCfiveyears.com](http://z.umn.edu/MAISRCfiveyears.com).



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	Ken Wentz	kmwmjw@gmail.com	760.885.9668
	Marc Wing	mwing@prtcl.com	218.495.3570

## Big Lake, Small Mussels: Estimating Size And Distribution Of Zebra Mussel Populations

Source MAISRC

The first field season of a project developing underwater survey methods for zebra mussels is complete. The project will develop recommendations for using underwater surveys to estimate zebra mussel population abundance and distribution. Researchers sampled seven infested lakes using two different survey methods – distance sampling and double-observer – that will allow them to quantify zebra mussel populations and estimate detection probabilities.

Without estimates of detection probabilities, it's extremely difficult to know the extent of a zebra mussel population in a newly infested lake, to determine appropriate rapid-response treatment options, or to evaluate the effectiveness of the treatments over time. This project will create, test, and standardize sampling methods, leading to estimates of zebra mussel population size and distribution that can be compared across lakes and over time (for example, before and after treatment efforts).

Researchers visited twelve lakes in the summer of 2017, and conducted SCUBA operations in seven of them. To verify their efforts, they also collected data from two

SCUBA teams (the double-observer method) at two lakes. Survey efforts were concentrated around the area of infestation, with efforts decreasing as they moved farther around the lake. To conduct the surveys, divers set up 30-meter-long transects and counted the zebra mussels they could see within one meter on each side. They also recorded factors such as water clarity, percent cover, and depth.

Members of the research team gave attendees of the 2017 AIS Research and Management Showcase a peek into how difficult it is to assess distribution of such small organisms by attaching pistachio shells to rocks and logs and having observers search for them. The attendees found fewer than half of the shells!

Going forward, this project is forming a partnership with students at Carleton College who will be exploring sampling methods and their utility for monitoring zebra mussels for their senior comprehensive project. This coming summer, researchers will sample roughly a dozen more infested lakes to further test survey methods and provide enough data to make these methods applicable to many other lakes.

## Robberies

Did you know that many robberies aren't reported because victims think it's pointless to contact the authorities? You may be able to recover your stolen property and help stop it from happening to someone else by reporting the incident. Also you need a police report to file an insurance claim.

If you can tell from the outside that your home has been burglarized, do not go inside until the police arrive. Wait in your car and lock the doors, or wait at a neighbor's house as there's a chance the burglar may still be in there. If you're waiting inside your home, don't touch anything. Police may want to take photos or fingerprints.

Here's some other tips for keeping you and your home safe:

- Don't post on Facebook or other social media that you are not home and don't post photos until after you are back home. Many times the intruder leaves a door open and not only are your items stolen but in the winter your water lines can freeze causing much more damage.
  - Put a nail through the window to seal it against burglars – otherwise they can easily be opened with a screwdriver.
  - Doors and door locks are a little more complex. The door should be either solid wood or metal, so it holds. The strike plate should be the heavy-duty kind, secured with four, long (3-inch) screws. The lock should be a deadbolt or a knob-in-lock set with a dead latch.
  - Keep your small valuables in a safe and keep expensive stuff out of sight.
  - Try not to have anything that makes climbing through windows in the backyard easier such as ladders or stools.
  - Have motion detecting lights activated.
  - Do not have an extra key on your property. The safest place for a spare key is with a trustworthy neighbor.
  - Make friends with your neighbors so they know who should be at your house.
- Please stay safe and if you see something suspicious around your home or your neighbors call 911.

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## Algae In The Winter?

Submitted by Moriya Rufer, RMB Environmental Laboratories

Did you know that algae are alive under lake ice in the winter? If you enjoy ice fishing, you have maybe seen this occur.

Some species of algae are adapted to survive in cold temperatures, such as the 39° F water under the ice. The growth of these winter algae mainly depends on how much light and nutrients are available to them.

The light available depends on how much snow we have on top of the ice. Algae grow best in the winter in eutrophic lakes because they have more nutrients (phosphorus and nitrogen) available for them to use as food.

So why does it matter that algae can grow in the winter? When they photosynthesize, they give off oxygen as a byproduct. This oxygen is then available for fish, aquatic insects and other aquatic animals to breathe.

This dynamic is especially important in shallow, nutrient-rich lakes. In these lakes, there is a lot of decomposition going on at the bottom of the lake, which uses a lot of oxygen. During periods of prolonged ice cover, the lake is sealed off from the atmosphere and cannot be recharged with oxygenated air. The decomposition process and all the fish and aquatic organisms in the lake use up the oxygen, and when it does not get replenished, oxygen levels can get too low for fish to survive.

If the conditions are just right – crystal clear ice and enough nutrients available – you can even see the algae growing under the ice. Next time you're out ice fishing or walking on the lake, take a look and remember not all algae is bad!

Enjoy the lakes! This article was written and shared by Moriya Rufer at RMB Environmental Laboratories as part of continuing education for their Lakes Monitoring Program (218-846-1465, lakes@rmbel.info). To learn more, visit [www.rmbel.info](http://www.rmbel.info).

# LOST & FOUND

Have you lost something? Have you found something in your yard or on your shoreline that wasn't yours? If you have been unable to locate your lost items, or unable to return a found item to the rightful owner, email photo or description to [secretary@otlpoa.com](mailto:secretary@otlpoa.com)

[WWW.OTLPOA.COM](http://WWW.OTLPOA.COM)



## Solar Energy Incentives Available

The sun is shining down on Minnesota as the state's solar power capacity continues to grow dramatically. The cost to install a solar energy system has decreased by 50 percent in the past five years, and incentives are still available to go solar.

A 30 percent federal Residential Renewable Energy Tax Credit for solar and other renewable energy systems remains in place through 2019. It was not affected by the new federal tax plan, but the tax credit phases down to 26 percent for solar electric or solar hot water systems placed in service during 2020 and down to 22 percent for systems in place during 2021. A similar Business Energy Investment Tax Credit (ITC) is available for businesses.

The 2017 Legislature and Gov. Mark Dayton agreed

to extend Xcel Energy's Solar\*Rewards Program for three years and increase its program funding to \$15 million in 2018, \$10 million in 2019 and 2020, and \$5 million in 2021.

The Solar\*Rewards Program began taking applications for its 2018 season on Jan. 8. It is available to Xcel customers on a first-come, first-served basis.

Minnesota Power & Otter Tail Power also offer solar incentives. Minnesota Power provides solar rebates to qualified customers (residential and commercial) through its SolarSense program and began taking applications on Jan. 9. Awards are made on a first-come, first-served basis. Otter Tail Power offers a Publicly Owned Property Solar program that provides cash incentives to publicly-owned facilities that install

non-residential solar photovoltaic (PV) systems.

Other utilities may offer incentives for new solar energy systems as well, so check with your local utility.

Minnesota offers additional tax incentives. It provides a Solar Energy Sales Tax Exemption on residential, commercial and industrial solar energy systems. In addition, personal property consisting of solar electric energy systems is exempt from property taxation.

Other incentives, such as the Fix-Up Fund Loan Program, may help to finance residential solar systems.

To learn about the range of incentives that are available to Minnesotans for solar and other clean energy improvements, visit the Database of State Incentives for Renewables & Efficiency at [www.dsireusa.org](http://www.dsireusa.org) and enter your zip code.



**Who is ready for Summer!?**

Photo provided by Ken Wentz

## MEMBERSHIP RENEWALS

will be mailed in February. If you do not receive a renewal form you are encouraged to let us know immediately. Renewal forms can be found on page 7 please fill out and mail to  
**PO Box 21, Battle Lake, MN, 56515** or you can visit [www.OTLPOA.com](http://www.OTLPOA.com) and under the membership section pay online.

### Minnesota's Favorite Winter Pass Time - Ice Fishing -

Photo provided by Ken Wentz



**OTLPOA President Scott Simdorn Ice Fishing**



## Visitors Church Directory 2018

Join us in worship!

### BAPTIST ■■■■

**Basswood Baptist Church B.G.C.**   
 38188 340th St., Richville, MN 56576  
 Bert Holmquist, Pastor—218-495-3800  
 Church—218-495-3771  
 Sunday School 9:30 am, refreshments following  
 Worship Service 10:45 am  
 Bible Study, Youth Group & Kids Club - Wednesday 7 pm  
 Ladies' Bible Study - 3rd Thursday  
 Men's Prayer Breakfast - 1st Saturday 7 am  
 Potluck Dinner - 2nd Sunday

**First Baptist (ABC) - Battle Lake**  
*"The Little Brown Church on the Hill"*  
 Lynn Hansen, Pastor—651-485-7378  
[www.firstbaptistbattlelake.org](http://www.firstbaptistbattlelake.org)  
 Sunday Worship 9:30 am  
 Fellowship & refreshments 10:30 am

### CATHOLIC ■■■■

Father Leroy Schik, Pastor  
 Mass Times—218-864-5619  
[www.ollsj.org](http://www.ollsj.org)

**St. James Catholic** - Maine Township   
 Saturday Mass 5 pm, October 1 - May 1  
 Sunday Mass 8:30 am - May 1 - October 1

**Our Lady of the Lake** - Battle Lake   
 Sunday Mass 10:30 am  
 Saturday Mass 6:00 pm, Memorial Day—Labor Day

**Saint Edwards** - Henning   
 Saturday Mass 4:00 pm, May 1 - October 1  
 Sunday Mass 8:30 am - October 1 - May 1

### LUTHERAN ■■■■

**Bethel Lutheran Church**  
 Battle Lake Campus:  
 Meets at Lakes Area Community Center  
 112 West Main St., Battle Lake  
 218-862-4903  
 Sunday School 9:15 am  
 Worship: 10:30 am  
 Website: [bethellutheran.church](http://bethellutheran.church)

**First Lutheran - ELCA**   
 505 W. Holdt St., Battle Lake  
 Bradley Skogen, Pastor  
[bfirslutheran.org](http://bfirslutheran.org)  
 Church—218-864-5686  
 Coffee Fellowship: 9:00 am  
 Worship: 10:00 am

**Sverdrup Lutheran Church**   
 PO Box 70, 209 Southeran Ave. E., Underwood  
 Nancy Monke, Pastor  
 Church—218-826-6919  
 Worship 9:00 am

 Indicates Barrier-Free Access

### LUTHERAN ■■■■

**Tingvold Lutheran Church**  
 6 miles north of Underwood, Co. 1 & Co. 35  
 Nancy Monke, Pastor  
 Church—218-826-6487  
 September 1-May 31: Worship 11:00 am  
 Fellowship 9:30am  
 June 1-August 31: Worship 10:30  
 Fellowship 9:30am

**Zion Lutheran - ELCA**  
 36051 Co. Hwy. 74, Amor  
 Hwy. 1 & 74, 10 miles north of Battle Lake  
 James Gronbeck, Pastor • Church—218-495-2563  
 Email: [zionamoroffice@prtel.com](mailto:zionamoroffice@prtel.com)  
 Website: [www.zionamor.org](http://www.zionamor.org)  
 Summer Services: May - September  
 Worship 8:15 am & 10:00 am  
 Fellowship & refreshments between services  
 Regular Services: Worship 10:00 am  
 Fellowship & refreshments after service  
 Communion 1st & 3rd Sundays  
 Bible Study - Tuesday 10:00 am (year round)  
 Contemporary Worship Services - 2nd & 3rd Sundays

### METHODIST ■■■■

**Ottertail United Methodist Church**   
 104 Shore Drive, Otertail  
 Rod Turnquist, Pastor  
 Church—218-367-2270

**Richville United Methodist Church**  
 130 SW 1st Ave., Richville  
 Rod Turnquist, Pastor  
 Church—218-346-5656  
 Joint Worship 10:00 am at Otertail United Methodist Church while renovation is being done at Richville United Methodist Church - Call either church phone number for updates.

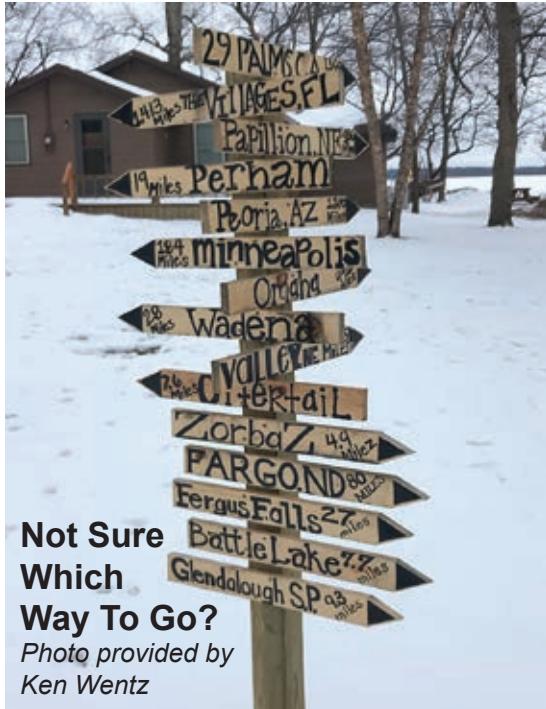
### PRESBYTERIAN ■■■■

**Maine Presbyterian**   
 30761 Co. Hwy. 45, Maine Township  
 2 miles north of Phelps Mill  
 Tom Junkert, Pastor  
 Website: [mainepresbyterianchurch.org](http://mainepresbyterianchurch.org)  
 Church—218-495-2539  
 Summer - Worship 9:30 am (Thru September)  
 Coffee Following Worship Service  
 Winter - Worship 10:00 am

### BATTLE LAKE ALLIANCE ■■■■

401 W. Gilbertson St., Battle Lake   
 Derek Mansker, Pastor • Church—218-864-5539  
 Sunday Worship Service 10:00 am  
 Fellowship & refreshments after service  
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**The Open Door Youth Center** "Helping Kids to Know & Grow" **DROP-IN RECREATION** -  
 Battle Lake • 218-864-5004



**Not Sure Which Way To Go?**  
Photo provided by Ken Wentz

# Researchers Successfully Install Electric Fish Guidance System To Remove Carp During Spawning Migrations

Source MAISRC

MAISRC researchers installed and tested a low-voltage electric fish guidance system in Rice Creek, as part of a larger, first-of-its-kind effort to remove thousands of invasive common carp during their spawning migrations. The barrier was installed to test how carp react to it, including whether they challenge it and learn from it. An electric barrier is used in this large stream so that water and debris can still flow freely. This project is conducted in partnership with Rice Creek Watershed District and is led by Dr. Przemek Bajer.

In spring, about 20,000 carp will migrate from Long Lake through Rice Creek and into shallow marshes near Lino Lakes to spawn. When that occurs, researchers will use this same electric barrier to guide the fish through a chute, toward a trap, and into a technology called the Whooshh System. Whooshh was first developed to move salmon around dams in the western U.S. and is now being adapted for this purpose. When fish enter the Whooshh chamber, they are pneumatically pushed through a flexible tube and safely and quickly delivered around barriers – or in the case of invasive fish, into a cage for removal.

To make sure the barrier is working as desired, researchers will tag about 100 carp and track their movement electronically. They will

also tie small floating tags to a few of them to monitor their behavior visually. They found that nearly all carp followed the guidance system and entered the desired chute in the first 24 hours. No carp were able to swim through the barrier. Unlike other electric barriers, the system used in this study, developed by Procom Systems, uses a very mild electric field to guide the fish rather than to stun them, and is portable so that it can easily be modified to fit specific study sites and deployed within hours.

During their spawning run, carp are extremely determined to reach their destination. This migratory behavior is a unique characteristic that researchers can capitalize on for control. Although there are other options for removing common carp, such as winter seining and drawdowns, those methods are often unreliable or very expensive. This new technique developed by MAISRC researchers is significantly more effective, efficient, and sustainable.

Common carp are one of the world's most widely introduced and invasive species of fish. They can degrade water quality and destroy waterfowl habitat by rooting in the lake bottom while searching for food.

## LAND TRANSFERS July 10, 2017 until February 12, 2018

TWP	LAKE	PROPERTY TYPE	GRANTOR	GRANTEE	PRICE	TWP	LAKE	PROPERTY TYPE	GRANTOR	GRANTEE	PRICE
Amor	Walker	Residential < 4 Units	Remley, Vernon C & Jennifer L	Erdmann, Nicklas K	\$221,000	Girard	Ethel	Seas Res Unimproved	Hamann, Emil E & Mary Lou	Irons, Marlin I Jr	\$70,000
Amor		Rural Land Unimproved > 35 AC	Loy Berg Family Trust	Lillegard Inc	\$95,000	Girard		Seas Res Unimproved	Love, Kevin J & Judi/Kramer, Steven P & Jud	Falck, Matt & Amy	\$31,250
Amor	Walker	Seas/Rec Improved	Kostecky, Paul & Kristina	Schik, Daniel & Mandy	\$125,000	Girard		Seas Res Unimproved	Love, Kevin J & Judi/Kramer, Steve P & Judy	Falac, Leland R Trustee	\$31,250
Amor		Seas/Rec Improved	Stratton And Blume, Inc	Christensen, Riley J	\$149,900	Girard	West Battle	Resorts	Heidenson, Steven W & Deborah A	Johnson, Perry & Maggie	\$65,000
Amor		Farm Unimproved > 35 AC	Belman Inc	Lillegard Inc	\$160,000	Girard	West Battle	Resorts	Heidenson, Steven W & Deborah A	Peterson, Aaron	\$50,000
Amor		Farm Unimproved > 35 AC	Sherman, Vance & Arlene	Seeman, Craig & Pasibeth	\$290,000	Girard	West Battle	Resorts	Heidenson, Steven W & Deborah A	Love, Karla	\$62,500
Amor	Otter Tail	Seas/Rec Improved	Whittemore, Edward & Christi	Anderson, Paul & Andrea	\$228,550	Girard	West Battle	Resorts	Heidenson, Steven W & Deborah A	Hatling, Michael K	\$65,000
Amor	Otter Tail	Seas/Rec Improved	Klosterman, Kelly & Michelle	Thimjon, Troy & Darla	\$426,810	Girard	West Battle	Resorts	Heidenson, Steven W & Deborah A	Love, Konnie Lee/Ordes, Kenneth J Jr	\$50,000
Amor		Seas/Rec Improved	Jensen, Steven & Barbara	Thundershores, Inc.	\$253,000	Girard	West Battle	Resorts	Heidenson, Steven W & Deborah A	Peterson, Timothy W & Jessica Jan	\$20,000
Amor		Seas/Rec Improved	Rutten, Peggy A	Hls, LLC	\$160,950	Girard	West Battle	Resorts	Heidenson, Steven W & Deborah A	Callander, Timothy D & Denise A.	\$80,000
Amor	Otter Tail	Seas/Rec Improved	Wells Fargo Bank, N.A., As Trustee Of The Mad	Deitz, Virginia M & Joshua/ Adams, Adam & Paul	\$300,000	Otter Tail	Buchanan	Seas Res Unimproved	First National Bank Of Elk River	Hockett, Patrick & Stephanie	\$135,000
Amor	Otter Tail	Residential < 4 Units	Berg, Elaine	Eckert, Joseph & Jennifer	\$448,000	Otter Tail	Buchanan	Seas Res Unimproved	First National Bank Of Elk River	Entrekin, Kevin	\$42,500
Amor	Otter Tail	Seas/Rec Improved	Rozek, Patrick/Reitzel, Carol	Johnson, Shawanna/Azure, Brian	\$259,900	Otter Tail	Otter Tail	Residential < 4 Units	Rierner, Eric & Patricia	Olson, Michael B & Amy S	\$279,300
Amor	Otter Tail	Seas/Rec Improved	Larson, John D & Jeannene K	Harrington, Chad M	\$320,000	Otter Tail	Otter Tail	Seas/Rec Improved	Bender, Diane K & Kent	Ahlfs, Joseph	\$118,100
Amor	Walker	Seas Res Unimproved	Hein, Mary	Diederich, Neil & April	\$75,000	Otter Tail	Otter Tail	Seas/Rec Improved	Rotzien, Wayne & Mary	Lee, Kolten S/Rondestvedt, Christine R	\$177,000
Amor		Residential < 4 Units	London, Danita & Steven/Leitch, Dana	Hutmacher, Christopher/Kimber, Breanna	\$110,947	Otter Tail	Otter Tail	Residential < 4 Units	Sazama, Amber R	Yaggie, Mary	\$321,000
Amor	Otter Tail	Resorts	The Lodge On Otter Tail Lake LLC	Exner, Eric & Christina	\$400,000	Otter Tail	Otter Tail	Seas/Rec Improved	Halvorson, Betty	Spitzer, Karen D Trustee	\$661,965
Amor	Otter Tail	Resorts	The Lodge On Otter Tail Lake, LLC	Conry, Kevin & Maristel	\$90,000	Otter Tail	Otter Tail	Seas/Rec Improved	Kiley, Robert J & Nancy A	Van Engen, Mervin & Ladonna	\$818,500
Everts	Otter Tail	Res Unimproved	Young, Douglas J	Young Family Holdings, LLC	\$131,000	Otter Tail	Otter Tail	Seas/Rec Improved	Miller Plombon, Melanie	The Lodge On Otter Tail Lake LLC/VH Rental	\$425,000
Everts	Otter Tail	Seas/Rec Improved	Conry, Kenneth	Mahoney, Moe Tijianni/Donnelly, Taryn Jade	\$205,000	Otter Tail	Otter Tail	Seas/Rec Improved	Clement W Letch Estate	Sampo Investments, LLC	\$265,000
Everts	Round	Residential < 4 Units	Johnson, Patricia Zueger	Harty, Summer	\$80,000	Otter Tail	Otter Tail	Seas/Rec Improved	Margit Rognlie	Hansen, Carter J & Kimberly J	\$417,500
Everts	Silver	Seas Res Unimproved	Streifel, Robert & Rachel	King, Alvin Phillip II	\$39,900	Otter Tail	Otter Tail	Residential < 4 Units	Braun, Curtis A & Julie A	Bailey, Charles E & Cindy S	\$112,100
Everts		Seas Res Unimproved	Brenny, Dale J & Amber	Hustad, Brian & Beth	\$600,000	Otter Tail	Otter Tail	Seas/Rec Improved	Rose, Shawna M	Claggett, Bradford & Carol	\$210,000
Everts		Farm Unimproved > 35 AC	Hustad, Burton	Bussa, Anthony & Molly	\$595,750	Otter Tail	Long	Residential < 4 Units	Conard, Richard L	Ketter, Michele	\$48,000
Everts	West Battle	Residential < 4 Units	Beyer, Paul & Barbara	Johnson, Mary E	\$458,600	Otter Tail	Long	Seas/Rec Improved	Garza, Stephanie & Juan/ Anderson, Courtney	Lendobeja, Elaine B & Jeffrey W & Chandra	\$166,475
Everts	West Battle	Residential < 4 Units	Durbin, Bo C & Jamie L	Larson, Karla	\$25,500	Otter Tail	Long	Seas Res Unimproved	Read, Leroy A & Marilyn L	Johnson, Kimberly Mavie Lorraine/ Spears, Jaco	\$2,000
Everts		Seas Res Unimproved	Holo, Chad & Melissa	Schmidt, Steven R Trustee & Beth J Trustee	\$28,000	Otter Tail	Long	Seas Res Unimproved	Winter, David Stanley	Hought, Timothy & Beatrice	\$92,450
Everts		Seas Res Unimproved	Geger, Elroy M & Ruth	Hager, Jonathan & Marcy	\$198,000	Otter Tail	Long	Residential < 4 Units	Walker, William B	Souful Spaces	\$6,500
Everts	Otter Tail	Seas/Rec Improved	Patterson, Roger & Linda	Jacobs, David Allen & Pamela Rae	\$150,000	Otter Tail	Long	Seas/Rec Improved	Century 21 Vista, Inc.	Pennington, Galen T & Debra D	\$15,000
Everts	Blanche	Seas/Rec Improved	Hoyem, Rolfe & Patricia & Greg	Bosse, Casey/Colbert, Kali/Hanson, Andrew	\$250,000	Otter Tail	Long	Seas/Rec Improved	France, Nathan & Jennifer	Bourdon, Riley	\$102,120
Everts	Deer	Seas/Rec Improved	Alden E Hanson Trust	Nelson, Ryan & Kiera	\$525,000	Otter Tail	Long	Seas/Rec Improved	Olson, Harold C.B. & Theresa R	Kappes, John & Jessica	\$28,000
Everts	Blanche	Seas/Rec Improved	Stasvold, Cyril	Hanson, Duane A & Betty J	\$140,000	Otter Tail	Long	Seas Res Unimproved	Schroeder, Jerome & Julie	Phillip H Grothenhuis & Martha A Grothenhuis	\$2,070
Everts	Otter Tail	Seas/Rec Improved	Herding, Michael J & Jamie L & Richard B	Standal, Nancy/Abram, Terry	\$198,000	Otter Tail	Long	Seas Res Unimproved	Rundle, Tom/Holm, Dawn	Covington, David I & Raeanna M	\$172,200
Everts	Silver	Seas/Rec Improved	Larsen, Louis M & David & June E/Wyneken, Bri	Dobbelmann, Ashley A	\$51,150	Otter Tail	Buchanan	Comm Improved	Red Roof Animal Hospital, LLC	Stadum, Debra L	\$140,000
Everts	Round	Seas/Rec Improved	Lambert, James R & Diane M	Youngsma, Galen L & Laura	\$80,000	Otter Tail	Buchanan	Seas/Rec Improved	Penner, Robert J & Marine A	Quermemoen, Eric	\$8,500
Everts	Elbow	Seas Res Unimproved	Pensco Trust Company FBO Laura Schneider IRA	Youngsma, Galen & Laura	\$100,000	Otter Tail	Buchanan	Residential < 4 Units	Quermemoen, Gary	Jeziorski, Stephanie J	\$302,500
Everts	Elbow	Seas Res Unimproved	Pensco Trust Company FBO Laura Schneider IRA	Wyneken, Anne L & Brian P	\$270,000	Otter Tail	Buchanan	Seas/Rec Improved	Horner, David C & Myrna B	Kennedy, Dale Bernard/ Deanna K	\$108,333
Everts	Silver	Seas/Rec Improved	Clark, Matthew A	Blaskowski, Matthew J & Jennifer	\$342,000	Otter Tail	Buchanan	Seas Res Unimproved	David E Kennedy Revocable Trust/ Leppke, Dianna Elizabeth	Goehner, Paul O & Kelly A	\$124,500
Everts	Round	Residential < 4 Units	Mehl, John A & Ann K	Sharma, Kumar L/Verma, Neeru	\$156,900	Otter Tail	Otter Tail	Seas Res Unimproved	Cloeter, Michael David & Rachel Bilich	Beyer, Randy/Olsen, Denise	\$22,000
Everts		Seas/Rec Improved	Johnson, Alvin W/Jhnsn, Susan M	Jensen, Jeremy D	\$170,127	Otter Tail	Otter Tail	Seas Res Unimproved	Martin, Dennis & Eileen L	Moll, Robert & Deborah & Richard & Jane	\$159,900
Everts		Seas/Rec Improved	Sharma, Kumar L/Verma, Neeru	Hoff, Nathan & Stephanie	\$27,500	Otter Tail	Otter Tail	Seas Res Unimproved	Moll, Robert & Deborah & Richard & Jane	Ba Kern Holdings, LLC	\$275,000
Girard		Farm Unimproved < 35 AC	Roger E Luhnig Estate	Houge, Sherlock J Jr & Coleen M	\$185,000	Otter Tail	Buchanan	Seas/Rec Improved	Dianna E Leppke Living Trust	Bye, Donald R & Patricia H	\$395,000
Girard	Ethel	Res Unimproved	Roger Edward Luhnig Estate	Palubicki, Jordan J & Lacey L	\$370,000	Otter Tail	Buchanan	Residential < 4 Units	Caspers, Wilbur R. & Connie J.	Christensen, Lee J & Jean M	\$500,000
Girard		Farm Unimproved > 35 AC	Palubicki, Ronald C & Mary Beth	Luhnig, Donavon & Joni	\$5,700	Otter Tail	Otter Tail	Seas/Rec Improved	Wiese, John E & Connie L	Young, Christopher E & Sandra K	\$486,500
Girard		Res Unimproved	Roger Luhnig Estate	Smith, Joel	\$15,000	Otter Tail	Buchanan	Seas Res Unimproved	Storms, Gary & Racheal	Moen, David & Jill	\$108,900
Girard		Res Unimproved	Neumann, Elmer E & Betty J	Kenyon, Steven M	\$55,900	Otter Tail	Buchanan	Res Unimproved	Davis, Terrance L & Kathleen B	Hanson, Lon K Trustee & Susan C Trustee	\$10,000
Girard		Seas/Rec Improved	Koch, Michael F & Lorna A & Joseph M & Susan	Collentine, Brian & Susan	\$15,000	Otter Tail	Buchanan	Res Unimproved	Hanson, Susan C & Lon K	Davis, Kathleen B & Terrance L	\$10,000
Girard	Mason	Seas Res Unimproved	Pfeffer, David J & Bonnie S	Seaburg, Gregory & Noella	\$225,000	Otter Tail	Buchanan	Seas/Rec Improved	Olsen, Denise/Beyer, Randy	Soupir, Chad Allen/Girtz-Soupir, Shelly Jane	\$50,000
Girard		Seas/Rec Improved	Tate, George John & Kay Alison	Shultz, Larry & Becky	\$20,000	Otter Tail	Buchanan	Residential < 4 Units	Rosenthal, Jack A & Heather	Grenell, Jason C & Barbara Jo	\$202,653
Girard		Seas Res Unimproved	Scheid, Wilfred H & Rose	Klein, Tonya M & Daron E	\$269,000	Otter Tail	Buchanan	Comm Improved	Hutmacher, Randal & Joan	Wallgren, Kris/Kupfer, Karla	\$103,000
Girard	East Battle	Residential < 4 Units	Morse, James R & Wilma J	Hall, Loraine	\$36,250	Otter Tail	Buchanan	Comm Improved	Haberman, Roger & Mary	Blue Spruce Properties Llc	\$36,000
Girard		Residential < 4 Units	Nilsson, Mary	Parker, Jara L	\$135,000	Otter Tail	Buchanan	Comm Improved	Wiebe, Delmar & Manila	Haberman, Roger & Mary	\$32,000
Girard		Residential < 4 Units	Karasch, Geneva/Sydow, Chris W & Kerry & Way	Burleson, Douglas S & Sara M	\$2,306	Otter Tail	Buchanan	Residential < 4 Units	Busing, Roxanne	Busing, Tonya & Shannon & Shane	\$55,000
Girard		Tax Exempt	State Of Minnesota	Fitzgibbons, Barry & Michele	\$367,600	Otter Tail	Buchanan	Residential < 4 Units	Jennings, Connie	Carriere, Kelsey & Justin	\$52,509
Girard	East Battle	Residential < 4 Units	Loge, William & Jean Anne	Koestler, Shirley/Kostler, Kerry	\$353,700	Otter Tail	Buchanan	Seas Res Unimproved	Epps, Patricia	Swyter, Marvin W & Mary R	\$200,000
Girard	East Battle	Residential < 4 Units	Koestler, Shirley/Kostler, Kerry	Euscher, Terrance H & Karen L	\$812,000	Otter Tail	Buchanan	Seas Res Unimproved	Teberg, Derrick	Denny, Daniele/Butzin, Dan	\$64,500
Girard	West Battle	Residential < 4 Units	Bjerke, Leon & Mary	Njos, Robby/Kjos, Sarah	\$254,500	Otter Tail	Buchanan	Seas Res Unimproved	Ostrom Ahlfs, Amy L/Ahlfs, Michael J	Rutten, Kelly/Rutten, Leeann	\$325,000
Girard	West Battle	Seas/Rec Improved	Ratzlaff, Eldean B & Deanne M	Ingrassia, Richard A & Kari S	\$374,000	Otter Tail	Buchanan	Seas Res Unimproved	Formanek, Elizabeth J	Formanek, Robert M & Teresa K	\$100,000
Girard	East Battle	Residential < 4 Units	Wilson, Paul W & Susan L	Hochstein, Benjamin & Leah	\$160,000	Otter Tail	Buchanan	Residential < 4 Units	Lock, Kenneth H & Julia	Abraham, Scott & Molly	\$77,500
Girard	West Battle	Seas Res Unimproved	Stave, Douglas/Gigstad-Stave, Doreen	Hoogvee, Dean & Joel	\$179,400	Otter Tail	Buchanan	Residential < 4 Units	Kiellmeyer, Sandra	Perala, Jeffrey Scott	\$35,000
Girard	East Battle	Seas/Rec Improved	Day, Kevin & Marlys	Heifort, Sharon & Wayne	\$333,500	Otter Tail	Buchanan	Residential < 4 Units	Schulz, Kerry L & Ronald	Goeller, Dean G	\$160,000
Girard	West Battle	Seas/Rec Improved	Euscher, Terrance H & Karen L	Watkins, Vincent & Judith	\$427,400	Otter Tail	Buchanan	Res Unimproved	Hutmacher, Joan E & Randal R	Denny, Dale R & Lori L	\$4,000
Girard	West Battle	Residential < 4 Units	Rudesill, Thomas E & Ruthann	Dosch, Steven M & Lola J	\$237,650	Otter Tail	Buchanan	Residential < 4 Units	Boom, Victoria	Johnson, Ronald D & Lila J	\$203,900
Girard	West Battle	Seas/Rec Improved	Eliason, Janice/Radel, Vicky & Leann/Berger	Smith, Michael E & Barbara J/ Trudeau, Annet	\$150,000	Otter Tail	Buchanan	Res Unimproved	Hutmacher, Joan Ellen & Randal Ray	Jensen, Robert & Stephanie	\$12,000
Girard		Seas Res Unimproved	Denker, James H & Kendra S	Keskitalo, Michael & Susan & Justin & Kelsey	\$74,900	Otter Tail	Buchanan	Res Unimproved	Hutmacher, Joan E & Randal R	Dunn, Terry L & Brenda L	\$16,200
Girard	Ethel	Seas Res Unimproved	Vedell, Robert F & Janet K	Pederson, Alvin G & Jodi J	\$66,000	Otter Tail	Buchanan	Residential < 4 Units	Blaskowski, Matthew J & Jennifer J	Meece, Merle W & Joan F	\$272,850
Girard	Hanson	Seas Res Unimproved	Spargo, Michael T & Hazel Dee Wnek	Hawes, Mark E & Deborah M	\$58,000	Otter Tail	Buchanan	Seas Res Unimproved	Lueders, Myron J & Elaine D	Johnson, Robert & Margo	\$85,500
Girard	Hanson	Seas Res Unimproved	Spanswick, Richard & Marie I			Otter Tail	Buchanan	Seas Res Unimproved	Thalman, Delbert G & Brunhilde E	Scapanski Leisure, LLC	\$100,000
Girard		Seas Res Unimproved				Otter Tail	Buchanan	Seas Res Unimproved	Thalman, Delbert G & Brunhilde E	Halverson, Greg & Tracy/ Vandeventer, Tom/VA	\$100,000
Girard		Seas Res Unimproved				Otter Tail	Buchanan	Seas Res Unimproved	Thalman, Delbert G & Brunhilde E	Athmann, Randal S	\$85,000

## Elmer's Texas Barbecue Destroyed

There is one less eating establishment around Otter Tail Lake. In the early am of September 1, 2017 a call came into the Battle Lake Fire Department reporting a blaze at Elmer's Texas Barbecue. Both Ottetail and Henning fire departments assisted in battling the fire.

The fire originated on the east side of the building and traveled from the exterior of the building to the interior.



Good news was that no one was injured and the red building used for storage and the Pavilion are still standing.

*Photos provided and taken by Ken Wentz*



## 2018 Walk For Glendalough

*Submitted by Dan Malmstrom*

Mark your calendars and join your friends and family on April 21st for our annual Walk for Glendalough. The event runs from 9am-1pm. Please register by 10am in the Lodge. 2018 Walk t-shirts will be provided at the registration table for each donation of \$50.

Whether you walk, hike or bike ride along Glendalough's great trails, or simply experience the heritage of Glendalough over conversation with friends, you'll be ushering Spring into Glendalough on Earth Day 2018.

Coffee and donuts will be available at the Trail Center during the morning, and lunch will be served at noon followed by awards, door prizes, and updates about several exciting park developments.

If you would like to raise pledges for Walk 2018 and vie for some great prizes, pledge forms will be available at Everts Lumber, Spruce, Lakes Area Community Center, Battle Lake Public School offices, and the Glendalough State Park office.

If you cannot attend the Walk 2018, you may contribute to the fundraiser by sending your donation to: Glendalough Park Partners, PO Box 901, Battle Lake, MN 56515. We will send you a T-shirt.

If you need further information, contact Walk organizers Tracy Kortlever at [Glendaloughparkpartners@gmail.com](mailto:Glendaloughparkpartners@gmail.com) or Stephanie Christianson at [Stephc.oakwood@gmail.com](mailto:Stephc.oakwood@gmail.com).

The Walk is a very important part of Glendalough State Park — past, present and future. The park began its journey from a privately-owned retreat to become a state park on Earth Day 1990. This was the day the Cowles Family announced the donation of their property, Glendalough, to the Nature Conservancy. The property became a state park in June of 1991.

In 1996 the first fundraising event promoted by the GSP Citizens Advisory Board, "March for Parks" took place. The event has since changed to "Walk for Glendalough", and has become an annual fundraising event sponsored by the GSP Citizens Advisory Board.

Nearly \$300,000 has been raised over the years, and the list of projects made possible by your generosity is impressive. They include

**Walk For  
Glendalough  
April 21  
9am-1pm**

- Historic Lodge Renovation
- Trail Center Renovation
- Modernized Rest Rooms
- Molly Stark Picnic Shelter
- Annie Creek Bridge
- Hiking Trail Boardwalk
- Prairie Flower Transplants
- Prairie Grassland Restoration
- Park Entrance Sign
- Wildlife Blinds
- Camper Cabin Electricity
- Interpretive Equipment
- Interpretive Projects
- Naturalist Intern
- Amphitheater Seating
- Lodge Furniture
- Lodge Fireplace
- Glendalough Art
- Defibrillators
- Pedestal Grills
- Canoes
- Canoe racks
- Bike Trail Interpretation
- Bike Fix It Stations
- Bike Racks
- Trail Signage
- Fishing Equipment
- Archery Equipment

Help us continue this great tradition on April 21st. One thing is for sure: you'll have a great time as we continue to celebrate Glendalough!

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