



# NEWSLETTER

## **AIS UPDATE: Whole Lake Treatment to be done on McCarry and Eagle Lakes**

Our lake association has been dealing with Eurasian water-milfoil (EWM) since it was confirmed in our Chain in 2004. We started management efforts in 2005 with John Podlesny, Jane Swenson, Karen Austin and Bill Swenson providing the leadership. 2019 finds our Chain and association still working to contain the impact of this invasive species while making efforts to keep others out.

Our whole lake treatments in 2017 on Buskey Bay, Millicent, Hart and Twin Bear have the results shown in detail on our web page [www.pikechain.org](http://www.pikechain.org). John Joseph does a great job on this web page and we find it interesting on every visit. The results after whole lake treatment shows a reduction of (EWM) of over 70% in the 2018 lake surveys provided by our consultants Onterra compared to the Spring of 2017 pretreatment survey. Very few plants were found in the 2017 post treatment survey. The return of the plants by seeds or root fragments is not conclusive, but a reality of the management issues. We did this work with a major part of the funds coming from our 2016 WDNR grant of \$120,000.00.

2019 brings us to the next step. We have worked with the WDNR, consultants Onterra and the PCLA board to receive an extension on our grant to 2020 allowing us to use funds to do whole lake treatment on McCarry this Spring. Our association board voted to do a whole lake treatment of

Eagle Lake this Spring, *with all funds coming from our Association*. Spot treatments will be done on Buskey Bay, Hart Lake and Twin Bear in some of the biggest problem areas. The basis of this strategy is to hold off future whole lake treatments as long as possible. This approach was incorporated into our management plan. The presence of a large number of springs in our Chain may be impacting the retention time of the chemical in some of the areas least responsive to our management efforts. Any hand pulling of EWM done any place in the Chain will assist in limiting the spread and will have no negative impact. The WDNR treatment permits for 2019 are posted on our web page: [www.pikechain.org](http://www.pikechain.org)

Our membership, board, WDNR, Bayfield County and consultants Onterra have given great support over the years. The need for volunteer help in both 2017 and 2019 was filled by Jay Johnson and Eddie Wangenstein and their ability to get others involved. Their presence on the Chain was a real help over our committee traveling for the high demand of temperature profiles and water samples required.

Thank you all for your past and future support.

Barb Boehler, Joann Bassett, John Westman, Fred and Carol Petroske and Al Boehler AIS Committee

### **2019 BOARD OF DIRECTORS**

Jay Johnson, President	Debb Sharbonno	Josh Teigen
Eddie Wangenstein, Vice President	Howard Lehman	Mike Higgins
John Coffey, Treasurer	Jim Bender	Jake Gress
Kristen Sandager, Secretary	Joe Rapacz	
Al Boehler, Past President		



**2019 SPRING ADOPT-A-HIGHWAY CREW**

A small but hard-working group of Pike Chain of Lakes members picked up our assigned section of Highway H on Saturday, June 15th. The task took an hour and a half. Highway H from N. Point Drive to Twin Bear Park is now free of debris.

Pictured left to right, back row are: Glenn Viggiano, Dan Kulig, Connor Peck, Mary Kulig and John Angster. Front row: Julie Peck & Linda Brunner. Not pictured: Jerry Peck and Howard Lehman

### **PCLA TO COLLABORATE WITH UW-MADISON GRADUATE STUDENT**

Hello PLCA members!

My name is Amber and I am a graduate student at University of Wisconsin-Madison in the Environmental Chemistry and Technology program. I have spent much of the last 10 days working on Eagle and McCarry lakes to monitor them during their Eurasian watermilfoil treatment. The lakes were treated on June 10<sup>th</sup> and 11<sup>th</sup> with the herbicide Shredder-4, which has an active ingredient of 2,4-D (full name: 2,4-dichlorophenoxyacetic acid, pronounced two-four-dye-klor-o-fen-oxy-a-seat-ik acid). The effectiveness of the treatment is dependent on 1) achieving a target concentration of 2,4-D in the lake and 2) how long milfoil is exposed to that target concentration 2,4-D. However, the factors that affect how long 2,4-D stays in a lake are not well understood, and I am studying two of these factors specifically: the bacteria and the sun. We know bacteria can use 2,4-D as food and the light from the sun can break 2,4-D apart. As part of my project, I have been collecting water from the top of the lake (the epilimnion), the bottom of the lake (the hypolimnion), and sediment from along the shoreline to measure 2,4-D in these places and see how the concentration changes over the next few months. I am also comparing my observations of 2,4-D concentrations in the lakes with small scale microcosms (think: mini-lakes) and controlled light exposure experiments to figure out how much 2,4-D loss in the lakes is from the bacteria and sun respectively. Eagle and McCarry lakes are two of four lakes I will be studying this summer, and I am planning on visiting them about once a week until most (if not all) of the 2,4-D is gone. So, if you see me and my UW-Madison truck around be sure to say hello! I am also trying to blog about my travels around the state, which you can find at [amberinthewater.weebly.com](http://amberinthewater.weebly.com).

If you have any other questions, comments, or concerns you can contact me at [amwhite24@wisc.edu](mailto:amwhite24@wisc.edu).

# Upcoming Events:

## ▶ Iron River Lakes Association Annual Meeting

**PCLA ANNUAL MEETING**  
**Saturday, August 3, 2019**  
**Iron River Community Center**  
**9 a.m. –11a.m.**

- 8:30 AM-doors open
- 
- 9 AM- Business Meeting
- 
- 10 AM– GUEST SPEAKER GREG BADE will talk about the history of Pine Crest Estate and Farm. Greg is the grandson of Christian Wiehe, founder of Pine Crest & Pine Tree Farm.
- PCLA apparel will be available for purchase

Free and open to the public

## ▶ 3rd Annual Lakes Party

**PINE POINT LODGE**  
**Saturday, August 17, 2019**

**PCLA is a nonprofit, 501(c)(3) tax-exempt organization working specifically to promote the sustainable management of our beautiful Pike Chain.**



[www.facebook.com/PikeChainofLakes](http://www.facebook.com/PikeChainofLakes)



[www.pikechain.org](http://www.pikechain.org)

## THE DIRT...on native plants

There are approximately 68 different plant species on the Pike Chain according to a number of different surveys done in 2013 by Onterra, our consultant for Eurasian watermilfoil (EWM) management. EWM continues to be the only submerged Aquatic Invasive Species (AIS) with some shoreline emergent AIS including purple loosestrife and Japanese Knotweed. According to the data generated from the Onterra's 2013 point-intercept survey, a few of the more common species found on the Pike Chain are: coontail, common waterweed, muskgrasses, and slender pondweed. For more information on plant species for each lake go to: Appendix A from the 2016-2018 Final EWM Monitoring & Control Strategy Assessment Report (April 2019) at <http://www.pikechain.org/Documents/2016-18%20Final%20Assessment.pdf>.

### COONTAIL

**Description:** native to all continents except Antarctica and fairly common on the Pike Chain and around the state

- grows underwater without true roots so derives all of its nutrients directly from the water
- perennial
- has a hollow stem with finely divided stiff dark green leaves arranged in whorls of 5-12 that fork
- leaf edges toothed with small spine at tip
- plants may be long and sparse but are often bushy towards the tip giving an appearance of a raccoon tail
- tiny male and female flowers
- fruit: dry seed with 2 spines at base and one at tip
- can be confused with EWM-coontail leaves are spiny and forked whereas EWM leaves are more feather like



COONTAIL: Photographer: Kurt Stüber

<http://wisflora.herbarium.wisc.edu/imagelib/imgdetails.php?imgid=3>

### MUSKGRASSES

**Description:** a genus of macroalgae represented by 7 species in WI

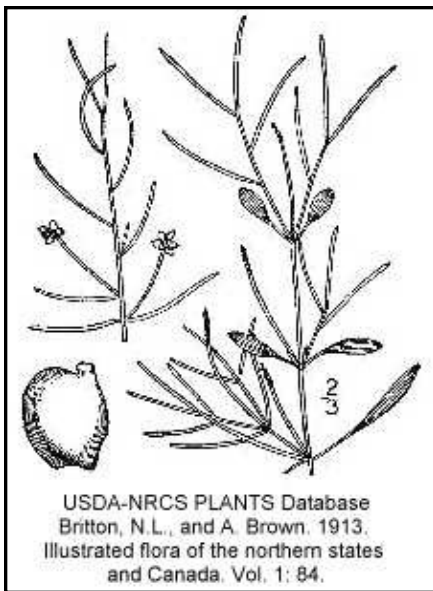
- common in hard water lakes and requires lakes with good water clarity
- more competitive against vascular plants (i.e. pondweeds, milfoils etc.) in lakes with higher concentrations of calcium carbonate in the sediment
- named because of its musty, garlic like odor
- doesn't extend above water surface
- gray-green branched with cylindrical whorled braches with 6 to 16 branchlets
- grainy/crunchy texture
- large beds help to stabilize bottom sediments



MUSKGRASS: <https://aquaplant.tamu.edu>



MUSKGRASS: <https://aquaplant.tamu.edu>



**SLENDER PONDWEED**

<http://wisflora.herbarium.wisc.edu/taxa/index.php?taxon=4632>

**SLENDER/SMALL PONDWEED**

**Description:** sinuous stems to 5 feet long that branch repeatedly near the growing tips

- perennial
- leaves are light green to olive color and are narrow and alternately arranged in a spiral
- a pair of tiny bumps usually are on each side at the base of the leaf
- leaves taper at the base and tips may be blunt or sharp.
- a slight purplish tint on some of the leaves can help to distinguish it from other pondweeds
- flowers: green-brown, small
- fruits: oval, plump, dry seed with smooth back and short beak
- is sensitive to herbicide treatments used to control EWM but remained resilient follow the 2017 whole-lake 2,4-D treatments



**SLENDER PONDWEED**

[www.chesapeakebay.net](http://www.chesapeakebay.net) Chesapeake Bay Program



COMMON WATERWEED-Wikipedia

**COMMON WATERWEED**

**Description:**

- like coontail, is fairly common on the Pike Chain and around the state
- perennial
- grows underwater without roots
- stems are slender and branching, up to 40 inches long with tiny narrow leaves that are straight or oval shaped
- leaves grow in whorls of 3 along each stem and are more crowded at the tip; under magnification the leaves have very tiny teeth
- flowers: white, floating



**COMMON WATERWEED FLOWER**

Photograph by Robert R. Kowal  
<http://wisflora.herbarium.wisc.edu/taxa/index.php?taxon=3499>

## 2018 Contributions to Lake Management

*Your generous donations will help us continue our fight in controlling Aquatic Invasive Species and sustaining our pristine Pike Chain now and for future generations-THANK YOU.*

Ames, Ronald & Joyce	Jensen, John & Melanie	Peck, Gerry & Julie
Anderson, Mark & Judi	Jerome, James & Dale	Petroske, Fred & Carolyn
Angster, James	Johnson, Jay & Margie	Podlesny, John
Angster, John & Susan	Johnson, Mary	Prell, Howard & Ann
Bassett, Bob & JoAnn	Johnston, Jim & Mary	Prettner, Robert & Janet
Bender, Jim & Julie	Just Give Nonprofits	Prohaska, Joseph & Carol
Bender, Robert & Thurza	Kernan, Barbara	Rantala, Robert & Velvet
Black, James & Dorothy	Kietzler, Dennis	Rapacz, Joe & Mary
Bochler, Al & Barb	Kohlhepp, John & Jann	Redwine, Douglas
Bochler, John	Koski, Frances	Richards, Charles
Bochler, Michael & Amy	Kotleski, John	Riley, Joyce
Bochler, Scott & Ann	Koval, Lois	Rouse, Leonard
Bowman, Lawrence & Karen	Kukull, Donald & Pat	Ruef, Robert & Roberta
Boxers Inc.-Tedlund	Lahti, Gordon & Betty	Sandager, Tom & Kris
Boyle, Terry & Ann	Leach, Mary	Schaller, Janet
Bretting, Paul & Terri	Lehman, Howard & Patty	Schaus, John & Nancy
Brickson, John	Leonidas, David Lisa	Schlosser, Mary & Hazel, Stewart
Brouch, David & Gretchen	Leonidas, Katherine	Sederberg, Robert & Jeanne
Brouch, Thomas & Diane	Longtine & Daughters Construction	Sellung, June
Brown, Dennis & Susan	Lulich, Peter & Bonnie	Sharbonno, Debb & Randy
Brown, Scott & Gail	Mader, Ralph & Mary Anne	Slack, William & Kay
Brunner, Ed & Linda	Mahan, John & Mary	Solon, Yvonne Prettner
Christensen, David & Debbie	Manion, Mark & Shelly	Spot Restaurant
Coffey, John & Sharon	Marcovich, Toby & Sharon	Suo, Francis & Katherine
Compton, Ken & Donna	Marincel, David & Trish	Swenson, James
CTD LLC	Marincel, Robert & Kathleen	Tallman, Ronald & Shelley
DeBriae, Thomas & Helen	McDonald, Dave & Beckie	Teigen, Mark & Misty
Doty, Lois	McKinney, Betsey	Tenerelli, Don & Kaye
Flynn, Patricia	Melander, Nancy	Theien, Richard & Gwen
Fugelso, John	Mellum, Brent & Lisa	Thompson, John & Mary
Glew, William & Leach, Sarah	Millar, Tom & Paula	Thompson, Johnny & Patricia
Glew, William & Marian	Miller, Dave & Carol	Tuttle, Richard & Kathryn
Gloe, Ronald & Susan Wheeler	Miller, Larry & Kathy	Viggiano, Glenn & Susan
Gregor Sr., Raymond	Mitchen, James & Patti	Vlasaty, Don
Gress, Jake & Gillick Family	Mulder, Mark & Johanna	Wangensteen, Doug & Peg
Gunderson, Catherine	Mullozzi, Anothony	Wangensteen, Eddie & Amy
Hagstrom, Gary	Nelson, James & Judith	Ward, Carla
Heytens, Robert & Rhonda	Ogle, Kim & Derek	Westman, John & bonnie
Higgins, Mike & Linda	Ogren, Greg & Christine	Wick, R. David & Janet
Huhn, Carole	Ogren, Willard & Jeri	Wilson, Bradley
Hunt, Marge	Olson, Donald & Barbara	Zak, Dan
Jensen, John & Jeanne	Onan Family Foundation	Zivic, Kenneth & Ann

(While every effort was made to acknowledge everyone, some names may have been accidentally missed. If you donated in 2018 and your name wasn't listed, please contact Kris Sandager at sandagk@yahoo.com or call 715.559.8622 and your name will be in our next newsletter).

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**THANK YOU Terry and Doris Weiss (McCarry Lake )** for your help and support with the EWM treatments on McCarry Lake this year. Their boat was used for the chemical injection because the treatment boat couldn't get on the lake. They are also letting their boat be used for doing water sampling.

Iron River Pike Chain of Lakes Association, Inc.

A 501(c) 3

**2019 Membership (new and renewal) & Lake Management Donation Form**

All information is confidential and used only by PCLA. Thank you for printing clearly

Type of Membership (circle one):      Individual/Family\*      Business\*\*      Trust\*\*

Name(s) \_\_\_\_\_

**MAILING ADDRESS** \_\_\_\_\_

Lake address (if different from mailing address) \_\_\_\_\_

Lake Name \_\_\_\_\_ Email address \_\_\_\_\_

If a business membership, would you like your business listed on our website (circle one): yes no

\*Two votes per membership      \*\* One vote per membership

Please list voter's name(s) \_\_\_\_\_

**VOLUNTEER OPPORTUNITIES**

\_\_ PCLA Board Member

\_\_ PCLA Committee (please circle)

Aquatic invasive species

Education and communications

Fishery

Water quality

Fundraising/Membership

Membership

\_\_ Road-side clean-up "Adopt-a-Highway"

\_\_ Other (please specify)

**Please make checks payable to:**

**Iron River Pike Chain of Lakes Association and  
mail form and check in the enclosed self ad-  
dressed envelope to:**

Iron River Pike Chain of Lakes Association

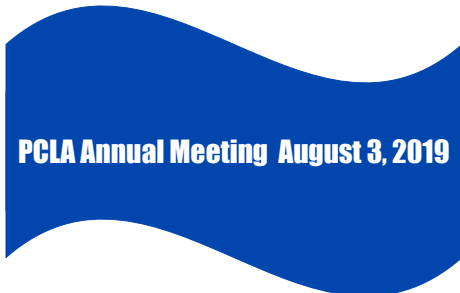
Attention: Treasurer

PO Box 602

Iron River, WI 54847

• 2019 Annual Membership Dues	\$20.00
<i>Tax Deductible</i>	
• 2019 Annual Donation for Lake Management	_____
<i>Tax Deductible</i> (Suggested donation \$1.00 per front foot)	
<b>TOTAL (Thank you!)</b>	_____

Iron River Pike Chain of Lakes Assoc., Inc.  
P.O. Box 602  
Iron River, WI 54847



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## PIKE CHAIN 2019 NOTICE OF AQUATIC PLANT TREATMENT

Northern Aquatic Services  
1061 240<sup>th</sup> street Dresser WI 54009 715-495-5252 cell 715-755-3507 home/office

April 27, 2019

Dear Lake Shore Property Owner,

The intent of this letter is to notify you that the Pike Chain of Lakes Association has hired Northern Aquatic Services, an herbicide application company for hire, to treat the nuisance exotic Eurasian watermilfoil in the Pike Chain. The Wisconsin DNR is in the process of issuing a permit for whole lake treatments in Eagle and McCarry Lakes along with 3.9 acres in Buskey Bay, 18.8 acres in Hart and 10.9 acres in Twin Bear Lakes. The herbicide I will use, Shredder Amine 4, will be applied to a dose of 0.30 ppm. Any water usage restrictions for the treated area will be posted on yellow signs in that area.

The permit application requires all property owners to be notified that the permit application is being made and that they may obtain a copy of the applica-

tion to review. You may view the permit application at the following web site: [www.pikechain.org](http://www.pikechain.org). The planned treatment is in accordance with the Pike Chain's Aquatic Plant Management Plan (APM Plan) to control Eurasian Water Milfoil. Questions concerning the APM Plan can be directed to Al Bochler of the Iron River Area Lakes Association. A copy of the permit may be obtained from the Lake Association.

I am scheduled to make the treatment in late May or June 2019.

If you have any questions you may contact Northern Aquatic Services at 715-495-5252 or the Wisconsin DNR's Aquatic Plant Specialist Mark Sundeen, 715-635-4074. Chemical fact sheets are available upon request.

Sincerely,  
Dale Dressel  
Northern Aquatic Services