

LAKE MANUELLA IMPROVEMENT ASSOCIATION DUES

NAME:

- NEW MEMBER
 CONTACT INFORMATION CHANGES/ADDITIONS

Lake Address:	
Mailing Address if different from above:	
Best Contact Phone number(s):	
Email Contact(s):	

- I would like to continue my Lake Manuella Improvement Association membership in 2024 dues of \$75.
- I would like to join the Lake Manuella Improvement Association in 2024, dues \$75.
- I would like to contribute to the Lake Manuella Improvement Associations Ongoing Project Fund. (This money is used to help fund Lake Improvement Projects and Aquatic Invasive Species treatments, etc.) My contribution is \$_____

Please make checks payable to LMIA and remit to:

Barry Calhoon/LMIA
21010 654th Ave
Litchfield, MN 55355

New!

Pay your dues & additional contributions via Venmo:

OR

@LakeManuella-Improvement Assoc.
Include Name & LMIA Dues/contribution in Payment

NOTICE:

Lake Manuella Improvement Association;
65813 216th St. Darwin, MN 55324



The lake Manuella Improvement Association has applied for a permit to treat Curly Leaf Pondweed and Eurasian Water Milfoil, Aquatic Invasive Species (AIS) in Lake Manuella in 2024. @LakeManuella-ImprovementAssoc.

The Minnesota Department of Natural Resources has granted the LMIA a waiver of the requirement that the association obtain the signatures of approval of owners of lakeshore property. Instead, the LMIA will notify property owners of the treatment through alternate forms. This notice is one form of the LMIA is using to notify property owners. Other forms include, but are not limited to notification through the associations Facebook page, member newsletters and annual meetings.

With regard to treatment for this year; 2024.

1. The proposed date for treatment: April 15, 2024 through October 31, 2024.
2. The target species for the treatment: Curly Leaf Pondweed and Eurasian Water Milfoil.
3. The method of control or product being used: EPA and MDA registered aquatic herbicides, such as but not limited to Endothall, Diquat Dibromide, Liquid 2,4-D, Granular 2,4-D, Granular Triclopyr, Florpyrauxifen-Benzyl.
4. How landowners may request that control not occur adjacent to the landowner's property: If you desire that the treatment of Curly Leaf Pondweed or Eurasian Water Milfoil not occur adjacent to your property, please notify the LMIA immediately (No later than April 15, 2024) at the following address or email address below: Keith Radke, 65813 216th St, Darwin, MN 55324, or klradtk4@gmail.com

PRESIDENT'S CORNER 2024

It looks like we are going to have an early spring. Open water is here. Let open water fishing begin.

It was great to see so many of you at the Winter Gathering at the Darwin Rod and Gun Club on February 4th. Many thanks to all who helped with this event. We hope to have another winter event next year, possibly on the lake??

The boat parade will be held on July 4th at 1:00 pm. We will line up in front of Bill and Faye Pinske's as usual. We ask anyone who is entering the parade to contact me (320- 583-6952) or email kkradtke4@gmail.com to register and get an entry number. The traveling trophy for first place will be awarded at the annual meeting. There was some discussion of a reverse parade at the Winter Gathering but no decision was made.

The Annual Lake Association picnic will be held 12:00 pm on July 20th, 2024, at the shelter on Cindy and Sue Barrick beach. As always bring a dish to pass, chairs and plates/silverware. We plan to start the annual meeting at 1:00pm.

The LMIA Board and Weed Committee have started to meet with Meeker Soil and Water Conservation District (SWCD). A contract has been signed with Moore Engineering, Inc. to do a watershed assessment. Hopefully, we will have some information to share at the annual meeting.

The Lake Manuella Improvement Association (LMIA) is planning to treat for Curly Pond Leaf and Milfoil pending DNR approval of our permits. If you do not want treatment of your lake shore, we need notification by April 15th, 2024. Please see the form in newsletter.

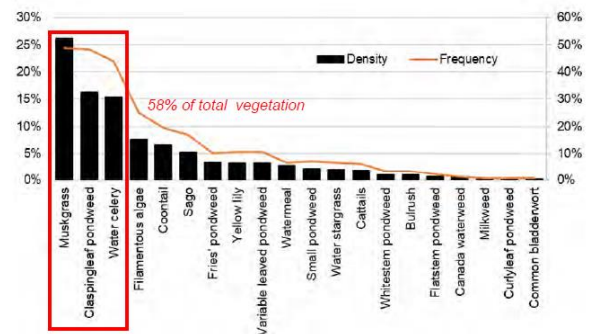
Hope to see you on the lake.

Keith

2023 Aquatic Plant Survey Key Points

- **Two separate sampling periods** to identify the spring and summer plant communities separately. The spring survey was conducted on **July 5, 2023** the summer survey on **September 7, 2023**.
- A total of **180 points** were surveyed over the 114 littoral acres to give a final spatial resolution of 1 point per 0.625 acres. Half of the points were surveyed in the spring and the other half later in the summer
- We found **87% of the shallow lake habitat occupied with plants from 21 different species**, including only one invasive species: curlyleaf pond-weed. While plants were found up to 14 ft, there was a clear drop-off in plant coverage starting between 12 and 13 ft.
- The most common type of vegetation on the lake were a type of macroalgae, **muskgrass, and two true plants, namely claspingleaf pondweed and water celery**. Curlyleaf pondweed was only found at a single point.
- A total of 21 species (plants or algae) were found, curlyleaf pondweed was the only invasive species detected during either survey, Eurasian watermilfoil has been found before in the lake, none was detected during this survey. At any given point during the survey, there was up to eight species but on average three different species per rake.
- **Three species dominated the plant community, accounting for 58% of all bio-mass collected, muskgrass, claspingleaf pondweed, and water celery.**
- **Muskgrass accounted for 26% of all bio-mass collected** and was the most common vegetation type on the lake.
- Most of the species detected, 12 of the 21, might be classified as rare in that they were collected at less than 10% of the points. This is not unusual as plant communities in lakes tend to have a few dominant species but a higher number of species occurring at only a few spots.
- **Muskgrass was dominant on Manuella especially in shallower areas.** In general, muskgrass grows near bottom, creating blanket conditions, which lock up nutrients in lake sediments. The relatively high-water clarity in Lake Manuella is likely partially dependent on the high cover-age of muskgrass. At the same time, in some areas, muskgrass can grow so densely it creates a nuisance. **There is also no doubt that there are areas on the lake that suffer from excessive growth of filamentous algae.**
- **It is important to note that zebra mussels are in a connected waterbody and starry stonewort is within 30 miles in another lake. Because of this proximity there is a high probability of a transfer in the near future, especially for zebra mussels.**
- Starry stonewort is a macroalgae like native muskgrass. Muskgrass and starry stonewort prefer hard, or alkaline waters. Manuella is a slightly alkaline, hard water lake. The dominance of muskgrass and lake chemistry indicate that if introduced, starry stonewort may establish itself easily.

Lake Manuella (Meeker County, MN) Aquatic Plant Survey – 2023



The Weed Committee sent out a survey regarding the 2023 Lake Restoration Weed Treatment. The vast majority of the response were very positive. The Key comments: Thickness of weeds past the treatment area. Muck! Invasive species Milfoil and Curly leaf. Wild Celery and Claspingleaf Pond Weed (looks very similar to Curly leaf) thickness, and finding a treatment that works better on them. Making sure treatment areas were completely treated.

2023 LAKE RESTORATION SURVEY AVERAGE BY LOCATION SATISFACTION LEVEL 0-5



Lake Manuella Improvement Association
Financial Statement
For the Year Ending December 31, 2024

	2023 Budget	2023 Actual	2024 Budget	@ 3/25/2024 2024 Actual
Revenue				
Association Dues	5,700	\$ 6,000	\$ 6,000	\$ 75
Lake Improvement Contributions		3,525	4,000	
Advertising				
Newsletter	500	600	200	199
Directory		-	1,000	1,200
Apparel Sales	150	201	200	-
Total Revenue	\$ 6,350	\$ 10,326	\$ 11,400	\$ 774
Expenses				
Lake Maintenance & Improvements				
Lake Survey	\$ 2,000	\$ 1,992	\$ 2,000	
Weed Treatment	5,000			
Silt Removal	20,000			
Control Structure	10,000			
Events				
Winter Gathering			1,000	697
Annual Meeting, Picnic	500		350	1,350
Communications				
Annual Newsletter	150	177	200	
Lake Directory			500	700
Administrative				
Rent	150			
Insurance Premium	227	227	233	233
Postage	125	76	150	383
Miscellaneous	1,000	-	-	-
Total Expenses	\$ 39,152	\$ 2,472	\$ 4,433	\$ 930
Projected Surplus	\$ (32,802)	\$ 7,854	\$ 6,967	\$ (156)



**Lake Manuella
Association**

4th of July
BOAT PARADE
START TIME: 1:00 PM

In case of bad weather or rain watch the facebook page and email.
Line Up at Bill Pinske's (Arlington sign) 12:45 pm
to register contact:
Keith 320-583-6952 or klradtke4@gmail.com

All registered boats will receive a unit number
that number **MUST** be visible on your boat
so the judges can pick a winner.
All floats must circle the entire lake!
Winners will be announced
at the Lake Picnic on July 20th.

AREA LAKES GARAGE SALES

GARAGE
SALE

Mark your Calendars the North Fork Area Lakes;
Mini Belle, Manuella, Stella and Washington are planning
area wide garage sales June 6-8th, 2024. Start saving
those treasures to sell them if that's your thing
or spend the day shopping all the sales.



Lawn Care

- Mowing
- Bagging
- Shrub Trimming
- Mulching
- Aeration
- Power Dethatching
- Spring/Fall Cleanups
- Weed Control



Lawn Application Program

- Round 1: pre-emergent crabgrass & fertilizer
- Round 2: broadleaf weed control
- Round 3: spot spray & weed control
- Round 4: fertilizer & weed control
- Round 5: winterizer

CONTACT US FOR A FREE ESTIMATE!
PRIEVE@HUTCHTEL.NET • 320.583.7267

Robin's Signs & Designs

CUSTOM SIGNAGE
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21461 CSAH 9 DARWIN, MN
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Sucker Creek Assessment and Sediment Delta Removal

Members of the LMIA have been meeting with the Meeker County Soil and Water Conservation District (District) over the last year to determine how best to address the sediment inputs into our lake via Sucker Creek, including removal of the sediment delta. Last summer, a few LMIA members and staff from the District and Minnesota DNR walked the creek all the way up to 640th Avenue to: 1) assess the condition of the creek stabilization projects constructed in 2017- 2019, 2) look for new areas that may need repair, 3) identify locations for further mitigation projects, and 4) discuss next steps in excavating the sediment delta. It was found that the past stabilization projects were in good shape and only minor areas possibly needing repairs were identified. The group also identified a couple of areas for possible future improvement projects.

The following goals regarding the creek have been identified: 1) remove the existing delta, 2) determine what is causing the sediment inputs into the lake, 3) evaluate options to address the problem, and 4) implement the most feasible remedies.

We've been told that we won't be able to receive grant funding to remove the delta unless a sub-watershed assessment is first conducted to determine what is causing the sediment accumulation and address that within the sub-watershed and creek. This assessment will be conducted by Moore

Engineering and will be paid for by the District. A work order for the assessment has already been agreed to and the work should start very soon. The assessment will also aid in determining the best remedies (e.g. settling ponds, vegetative buffers, cover crops) to improve water quality within the sub-watershed, including Sucker Creek.

The removal of the sediment delta will not be able to be funded with grant funds as a single project but, rather, will be lumped in with other sub-watershed remedies. And there's no guarantee that funding will be available for the removal. If greater than 1-acre of sediment is to be removed, the state requires that an Environmental Assessment Worksheet, and possibly an Environmental Impact Statement, be completed. This is likely to be costly and time consuming since an engineering firm will be needed and state agencies and other stakeholders will likely review and provide comment on the project. Because an area greater than 1-acre of sediment has been deposited into the lake from the creek, seeking a grant from the District and/or the North Fork Crow River Watershed District to fund the removal may be the most appropriate solution. Right now, we are being told that there's money available for these projects and that our sub-watershed district is a priority for these organizations. But don't expect any such projects to be constructed until late 2025, at the earliest.



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 Dave, Robin & Wyatt Kiel, Owners

LAKE PICNIC & ANNUAL MEETING

Saturday, July 20th
12:00 pm
 at Sue & Cindy Barricks on CSAH 9

Pork Chops & Hot Dogs
 will be provided
 Please bring; a dish to share
 BYOB, plates & utensils

**Join us to meet your Neighbors
 Get updates and information
 from the Lake Association.**

Dough C Dough

Handmade Breads & Butters



LEIGH COHEN WYATT
 763-233-1354
 Located on Lake Manuella

European Artisan Breads
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