



Board of Managers Meeting Agenda

Wednesday - April 14th, 2021 - 3:00 p.m.

Held Remotely Online

1. Call Meeting to Order
 - 1.1 Public Comment / Introductions
Audience members may address the Board regarding items not on the agenda. Please limit to three minutes.
 - 1.2 Approval of Agenda* (Additions/Corrections/Deletions) Action
2. Approval of March 10th, 2021 Meeting Minutes - Chair* Action
3. Approval of April 14th, 2021 Financial Summary & Invoices - Treasurer* Action
4. Tabled Discussion: LMRWMO Regulatory Role - Barr** Discussion
5. Review 2020 Annual Report and 2021 Newsletter - SWCD* Discussion
6. Review Watershed Plan Inventory - Barr** Discussion
7. Watershed Plan: Review Citizen and Technical Advisory Committees – SWCD/Barr* Discussion
8. Updates and Handouts
 - 8.1 Sunfish Lake Request for Delisting - SWCD* Information
 - 8.2 Other Updates / Member City Updates Information
9. Agenda Items for Next Meeting: May 12th, 2021
10. Adjourn

*Materials included in full packet

**Materials available separately on website:

www.dakotacountywcd.org/watersheds/lowermisswmo/agendas.html

Remote Meeting Information on Following Page.

Please note, the April 14th, 2021 LMRWMO Board meeting will take place via teleconference by phone and/or the web-based application, Zoom, at 3:00 pm. We are following provisions in Minnesota Open Meeting Law addressing meetings in the case of pandemic. Please visit the meeting listing below for instructions on how to participate. The meeting link will be open at 2:45, 15 minutes prior to the start time, to allow for technical troubleshooting for people to get connected and into the meeting.

Topic: LMRWMO April 14th, 2021 Board Meeting

Time: April 14, 2021, 2:45 PM Central Time (Zoom meeting opens at 2:45 for troubleshooting, meeting starts at 3:00 pm)

Join Zoom Meeting

<https://dakotacountymn.zoom.us/j/94882338793?pwd=M3BHY01tNGNDdVBRd20wVTF0N29wQT09>

Meeting ID: 948 8233 8793

Passcode: 084227

Dial by your location

+1 651 372 8299 US (Minnesota)

Meeting ID: 948 8233 8793

Passcode: 084227



MEETING MINUTES

Board of Managers Regular Meeting

March 10, 2020 - 3:00 p.m.

Meeting Held Remotely Online

Managers and Alternates in Attendance:

Sharon Lencowski, (Chair) Inver Grove Heights

Mary Jeanne Schneeman, (Sec/Tres) Mendota Heights

Lyle Hanzal, Lilydale

Jill Smith, Mendota Heights

Karen Reid, (Vice Chair) Saint Paul

Tom Sutton, Lilydale

Julie Eastman, West St. Paul

Advisors and Others in Attendance:

Tom Kaldunski, Inver Grove Heights

Krista Spreiter, Mendota Heights

Pat Murphy, St. Paul

Cody Joos, West St. Paul

Stephanie Levine, Mendota Heights

Leslie Pilgrim, Mendota Heights

Nathan Campeau, Barr Engineering

Sue Polka, South St. Paul

Ryan Ruzek, Mendota Heights

Ross Beckwith, West St. Paul

Sue Polka, South St. Paul

Dawn Gaetke, Inver Grove Heights

Greg Williams, Barr Engineering

Joe Barten, Dakota County SWCD

1. Call Meeting to Order

1.1 Public Comment / Introductions

Audience members may address the Board regarding items not on the agenda.

1.2 Approval of Agenda (Additions/Corrections/Deletions)

MOTION by Reid to approve the agenda for the March 10th, 2021 meeting, second by Randle; Roll call approval by Lencowski, Reid, Schneeman, Sutton, Randle, Eastman; motion passed.

2. Approval of the February 10, 2020 Meeting Minutes

Lencowski asked if there were any changes to the previous meeting minutes, there were none.

MOTION by Reid to approve the previous meeting minutes, second by Schneeman; Roll call approval by Lencowski, Reid, Schneeman, Sutton, Randle, Eastman; motion passed.

3. Approval of March 10, 2021 Financial Summary & Invoices

Spreiter provided an overview of the finances and invoices to be paid and recommended approval.

MOTION by Eastman to approve the financial summary and invoices to be paid, second by Reid; Roll call approval by Lencowski, Reid, Vanney, Sutton; motion passed.

4. Presentation on Cherokee Heights Channel Stabilization

Campeau and Barten presented on the history and construction of the Cherokee Heights Ravine Stabilization project.

5. Authorize Administrator to Solicit Proposals for Professional Services

Barten noted that the LMRWMO must solicit proposals for audit, legal, and engineering services every two years and requested authorization to publicly notice the solicitation. The Board discussed which newspapers to utilize to publish the solicitation and the potential cost.

MOTION by Sutton to authorize the LMRWMO Administrator to solicit proposals for professional services, published in the Pioneer Press and Legal Ledger, for a \$500 not to exceed amount, second by Schneeman; Roll call approval by Lencowski, Reid, Schneeman, Sutton, Randle, Eastman; motion passed.

6. Review the 2021 Water Monitoring Plan and Authorize Administrator to Execute Agreement with the Met Council for 2021 CAMP Monitoring

Barten summarized the information in the packet including recommendations for lakes to monitor in 2021, based on the 5-year monitoring plan included in the packet.

MOTION by Reid to authorize the LMRWMO Administrator to execute an agreement for 2021 water monitoring with the Metropolitan Council through the Citizen Assisted Monitoring Program, second by Sutton; Roll call approval by Lencowski, Reid, Schneeman, Sutton, Randle, Eastman; motion passed.

7. Presentation on the LMRWMO's Regulatory Role

Williams presented on the current and potential role of the LMRWMO as it relates to regulatory enforcement of water resources codes or regulations. Currently the regulatory role of the LMRWMO is to set minimum standards which the Member Cities incorporate into their city code and implement as part of their permitting programs. The Board discussed this topic and decided to table the discussion for the April meeting for further discussion.

8. Updates and Handouts

8.1 LMRWMO Plan Update

Williams provided a summary of next steps with the LMRWMO plan update, including

8.2 Other Updates / Member City Updates

9. Agenda Items for Next Meeting: April 14th, 2021

10. Adjourn

Meeting adjourned by Chair Lencowski at 4:45 pm.



FINANCIAL SUMMARY
March 11, 2021 to April 14, 2021

| | | | | |
|--|-----------------|--|---|---------------------------|
| Beginning Balance - Key Community Bank | | | | \$90,299.09 |
| Interest | 3/31/2021 | March 2021 Interest | + | \$16.47 |
| | | | + | |
| | | | + | |
| Deposits | 3/9/2021 | Yearly Dues City of St. Paul - \$9,417.93, City of Sunfish Lake - \$2,800.93 & City of Lilydale - \$1,732.89 | + | \$13,951.65 |
| | 4/1/2021 | Yearly Dues City of Inver Grove Heights | + | \$48,265.05 |
| | | | + | |
| To be approved at this meeting: | | | | |
| <u>Key Community Bank:</u> | | | | |
| Bank Fee | 3/31/2021 | March Paper Statement Fee | - | \$2.00 |
| 3719 | 4/14/2021 | Metro Watershed Partners | - | \$1,000.00 |
| 3720 | 4/14/2021 | Barr Engineering | - | \$955.00 |
| | | | - | |
| | | | - | |
| Available Balance at Key Community Bank | | | | \$150,575.26 |
| <u>Gateway Bank Accounts:</u> | | | | |
| | <u>Savings</u> | | | \$71,146.30 |
| Deposits | <i>Interest</i> | 3/31/2021 | + | \$30.21 |
| | | | - | |
| | | <i>Ending Balance</i> | | <u>\$71,176.51</u> |
| | <u>Checking</u> | | | \$1,000.00 |
| | | <i>Ending Balance</i> | - | <u>\$1,000.00</u> |
| Available Balance at Gateway Bank | | | | \$72,176.51 |
| Available Balance - Key Community & Gateway Banks | | | | \$222,751.77 |
| 4th Generation Plan Balance for 2021 | | | | \$50,000.00 |

*Balance includes dedicated funds to 4th Generation Watershed Plan

City of Saint Paul
Office of Financial Services
15 W. Kellogg Blvd. #700
Saint Paul, MN 55102

| Date: | Check #: |
|------------|---------------|
| 03/02/2021 | 506870 |
| Vendor #: | Check Amount: |
| 2233 | 9,417.83 |

Lower Mississippi River WMO, 1101 Victoria Curve, Mendota Heights MN 55118, US

SUNFISH LAKE

8499

LOWER MISSISSIPPI RIVER WMO

Check Number: 8499
Check Date: Mar 2, 2021

Check Amount: \$2,800.93

Item to be Paid - Description

Discount Taken Amount Paid

2021-06

2,800.93

CITY OF LILYDALE

14781

Lower Mississippi River WMO
Dues 2021 Inv# 2021-02
602-49490-433 \$1,732.89

2/26/2021

\$1,732.89

LOWER MISSISSIPPI RIVER WMO
125 - 3RD AVENUE NORTH
SOUTH SAINT PAUL, MN 55075

DEPOSIT TICKET

751898/960

KEY COMMUNITY BANK

5684 Bishop Ave. Visit us at
Lower Grove Heights, MN 55076 www.keycommunitybank.com
Phone (651) 457-7KEY

DATE 3-2-2021
DEPOSITS MAY NOT BE AVAILABLE FOR IMMEDIATE WITHDRAWAL.
LIST CHECKS SINGLY OR ATTACH LIST
DOLLARS CENTS

CURRENCY
0

COIN
0

CHECK ID.
506870

14781

9417.83
2800.93
1232.89

506870 \$

FROM OTHER SIDE

PLEASE ENTER TOTAL HERE

Checks and other items are received for deposit
subject to the provisions of the Uniform Commercial
Code or any applicable collection agreement.

LOWER MISSISSIPPI RIVER WMO
125 - 3RD AVENUE NORTH
SOUTH SAINT PAUL, MN 55075

KEY COMMUNITY BANK

5684 Bishop Ave.
Inver Grove Heights, MN 55076
Phone (651) 457-7KEY
Visit us at
www.keycommunitybank.com

DATE 4-1-2021
DEPOSITS MAY NOT BE AVAILABLE FOR IMMEDIATE WITHDRAWAL.
LIST CHECKS SINGLY OR ATTACH LIST
DOLLARS CENTS

CURRENCY

COIN
CHECK I.D.

234799

48265.05

FROM OTHER SIDE

\$

PLEASE ENTER TOTAL HERE

Checks and other items are received for deposit subject to the provisions of the Uniform Commercial Code or any applicable collection agreement.

CITY OF INVER GROVE HEIGHTS

VENDOR: 00552 LOWER MISSISSIPPI RIVER WMO

DATE INVOICE # P.O. # DESCRIPTION

2/3/2021 2021-01

Dues for LMR Watershed Management Organization

03/23/2021
GL #
441.74.5900.741.50070
Chk #: 234799
AMOUNT
48,265.05

5059287 \$

[REDACTED]

METRO WATERSHED PARTNERS



MINNESOTA WATER
LET'S KEEP IT CLEAN

INVOICE

651-523-2812
jl Larson25@hamline.edu

Metro Watershed Partners
Hamline University
1536 Hewitt Ave. MS-A1760
Saint Paul, MN 55104

Attention: Joe Barten
Lower Mississippi River WMO
4100 220th Street West, Suite 102
Farmington, MN 55024
Date: 1/28/21

Project Title: Clean Water Minnesota
Terms: 30 Days

| Description | Cost |
|---|-------------------|
| 2021 Membership: Clean Water MN and Adopt-a-Drain | \$1,000.00 |
| TOTAL | \$1,000.00 |

Benefits of membership

- You and your colleagues are invited to attend our monthly meetings, to network and share information with other watershed education professionals, and to hear monthly speakers on topics relevant to our work. The Watershed Partners meet on the second Wednesday of the month from 9 – 11am. Right now all meetings are held on Zoom.
- You and your colleagues are invited to be added to our listserv on Mobilize, where you can receive meeting notifications and partner updates, and send messages to, and receive announcements from, other partners. If you would like to be added to Mobilize, please email Jana Larson (jl Larson25@hamline.edu) and request to be added.
- Your organization will be listed as a supporting partner on cleanwatermn.org/about-us
- Your organization will be listed as a supporting partner on adopt-a-drain.org whenever someone clicks on a drain in your service area, and on email communication to adopters in your area.
- You will have access to an administrative portal on Adopt-a-Drain.org that allows you to access data about drains and program participants in your area.
- You will receive an annual report that includes summary data about drains and program participants in your area.
- You are able to access modifiable print resources to promote Adopt-a-Drain to residents in your area here: <https://www.cleanwatermn.org/resources-for-partners/> Please follow the style guide when modifying these resources. (This is password protected.)
- Portable educational exhibits are available for checkout. Find more information at: <https://www.cleanwatermn.org/resources-for-partners/>
- For an additional fee, participants in your area can receive yard signs and a printed "welcome kit" in the mail. Please contact Jana Larson for more information.

Duration of service: January 1 - December 31st, 2021. Unspent funds will rollover to support program activities in 2022.



INVOICE

Barr Engineering Co.
 4300 MarketPointe Drive, Suite 200
 Minneapolis, MN 55435
 Phone: 952-832-2600; Fax: 952-832-2601
 FEIN #: 41-0905995 Inc: 1966

Ms. Nancy Bauer
 Lower Mississippi River Water Mgmt. Org.
 City of Mendota Heights
 1101 Victoria Curve
 Mendota Heights, MN 55118

March 22, 2021
 Invoice No: 23190078.00 - 235

| | |
|---------------------------|-----------------|
| Total this Invoice | \$955.00 |
|---------------------------|-----------------|

Regarding: Watershed Management Organization

The following invoice is for professional services related to the above project, which include:

- Preparing materials and presentation for, and attending, February 10, 2021 Board meeting
- Responding to GIS data request from Ramsey County
- Communicating with LMRWMO Administrator and project management

Professional Services from January 23, 2021 to February 19, 2021

| | | |
|-----|------|---------------------------|
| Job | 2020 | 2020 Engineering Services |
|-----|------|---------------------------|

| | | |
|------|-----|----------------|
| Task | 001 | Board Meetings |
|------|-----|----------------|

Labor Charges

| | Hours | Rate | Amount | |
|---------------------------------------|-------|--------|--------|----------------------|
| Engineer / Scientist / Specialist III | | | | |
| Williams, Sterling | 4.50 | 150.00 | 675.00 | |
| | 4.50 | | 675.00 | |
| Subtotal Labor | | | | 675.00 |
| | | | | Task Subtotal |
| | | | | \$675.00 |

| | | |
|------|-----|----------------------|
| Task | 002 | Technical Assistance |
|------|-----|----------------------|

Labor Charges

| | Hours | Rate | Amount | |
|-----------------------|-------|--------|--------|---------------------------|
| Principal | | | | |
| Kieffer, Janna | 1.00 | 180.00 | 180.00 | |
| Support Personnel II | | | | |
| Nypan, Nyssa | 1.00 | 100.00 | 100.00 | |
| | 2.00 | | 280.00 | |
| Subtotal Labor | | | | 280.00 |
| | | | | Task Subtotal |
| | | | | \$280.00 |
| | | | | Job Subtotal |
| | | | | \$955.00 |
| | | | | Total this Invoice |
| | | | | \$955.00 |

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.
 Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact your Barr Project Manager, Janna M. Kieffer Phone: 952-832-2785 or E-Mail: jkieffer@barr.com.

Barr declares under the penalties of law that this account, claim or demand is just and no part of it has been paid.

Authorized By:



Janna Kieffer

Billing Backup

Monday, March 22, 2021

Barr Engineering Co. Invoice 235 Dated 3/22/2021 12:30:52 PM

Job 2020 2020 Engineering Services

Task 001 Board Meetings

Labor Charges

| | | | Hours | Rate | Amount | |
|---------------------------------------|-----------------------------------|-----------|-------|--------|----------------------|-----------------|
| Engineer / Scientist / Specialist III | | | | | | |
| Engineer / Scientist / Specialist III | | | | | | |
| SGW | 3 - Williams, Sterling | 2/5/2021 | 1.00 | 150.00 | 150.00 | |
| | meeting prep | | | | | |
| SGW | 3 - Williams, Sterling | 2/10/2021 | 3.50 | 150.00 | 525.00 | |
| | prep for and attend board meeting | | | | | |
| | | | 4.50 | | 675.00 | |
| Subtotal Labor | | | | | | 675.00 |
| | | | | | Task Subtotal | \$675.00 |

Task 002 Technical Assistance

Labor Charges

| | | | Hours | Rate | Amount | |
|-----------------------|--|-----------|-------|--------|---------------------------|-----------------|
| Principal | | | | | | |
| Principal | | | | | | |
| JMK2 | 1 - Kieffer, Janna | 2/10/2021 | .10 | 180.00 | 18.00 | |
| | call from Ramsey Co re GIS data | | | | | |
| JMK2 | 1 - Kieffer, Janna | 2/18/2021 | .90 | 180.00 | 162.00 | |
| | GIS data request for Cherokee Heights area- locate available data, source review | | | | | |
| Support Personnel II | | | | | | |
| Support Personnel II | | | | | | |
| NJN | 9 - Nypan, Nyssa | 2/12/2021 | .50 | 100.00 | 50.00 | |
| NJN | 9 - Nypan, Nyssa | 2/19/2021 | .50 | 100.00 | 50.00 | |
| | | | 2.00 | | 280.00 | |
| Subtotal Labor | | | | | | 280.00 |
| | | | | | Task Subtotal | \$280.00 |
| | | | | | Job Subtotal | \$955.00 |
| | | | | | Total this Project | \$955.00 |
| | | | | | Total this Report | \$955.00 |

| LMRWMO 2021 Financial Summary | | Actual Revenues | | | | | |
|--|---------------------|----------------------------------|-----------------------------|-----------------------------|-------------------------------|---------------------|--------------------------|
| ESTIMATED REVENUES AND ASSETS | Budget | Dec 10 2020 - Jan 13 2021 | Jan 14 - Feb 10 2021 | Feb 11 - Mar 10 2021 | Mar 12 - April 14 2021 | Total | Variance |
| Use of Fund Balance | \$28,896.00 | | | | | \$0.00 | \$28,896.00 |
| Dues from Members | \$110,224.00 | | | \$48,007.65 | \$62,216.70 | \$110,224.35 | (\$0.35) |
| Interest | \$600.00 | \$43.47 | \$43.24 | \$56.34 | \$46.68 | \$189.73 | \$410.27 |
| Other/Grant Match | \$0.00 | \$300.00 | \$300.00 | | | \$600.00 | (\$600.00) |
| LMCIT Rebate | \$500.00 | \$360.00 | | | | \$360.00 | \$140.00 |
| Other Grants | \$0.00 | | | | | \$0.00 | \$0.00 |
| BWSR FY16-18 CWF & FY19 WBF Grants ² | \$405,000.00 | | | \$230,400.00 | | \$230,400.00 | \$174,600.00 |
| TOTAL | \$545,220.00 | \$703.47 | \$343.24 | \$278,463.99 | \$62,263.38 | \$111,374.08 | |
| | | Actual Expenses | | | | | |
| ESTIMATED EXPENSES AND LIABILITIES | Budget | Dec 10 2020 - Jan 13 2021 | Jan 14 - Feb 10 2021 | Feb 11 - Mar 10 2021 | Mar 12 - April 14 2021 | Total | Balance Remaining |
| Engineering/Technical Assistance | | | | | | | |
| Technical Assistance | \$5,500.00 | \$17.00 | | \$426.00 | \$280.00 | \$723.00 | \$4,777.00 |
| Meetings | \$6,000.00 | \$725.00 | | \$781.00 | \$675.00 | \$2,181.00 | \$3,819.00 |
| Plan Reviews | \$0.00 | | | | | \$0.00 | \$0.00 |
| Watershed Plan Amendment | \$40,000.00 | | | | | \$0.00 | \$40,000.00 |
| Project Planning/Implementation | | | | | | | |
| Plan Implementation | \$0.00 | | | | | \$0.00 | \$0.00 |
| Landscaping for Clean Water Projects | \$15,000.00 | | \$3,750.00 | | | \$3,750.00 | \$11,250.00 |
| Water Monitoring | \$6,500.00 | \$2,730.00 | \$1,200.00 | | | \$3,930.00 | \$2,570.00 |
| Education | | | | | | | |
| Landscaping for Clean Water Workshops | \$6,400.00 | | | | | \$0.00 | \$6,400.00 |
| MN Water Stewards Program | \$10,500.00 | | \$520.00 | \$6,000.00 | | \$6,520.00 | \$3,980.00 |
| Storm Drain Stenciling Program | \$0.00 | | | | | \$0.00 | \$0.00 |
| Storwater Signage Program | \$2,500.00 | | | | | \$0.00 | \$2,500.00 |
| WMO Tabling/Event Materials | \$600.00 | | | | | \$0.00 | \$600.00 |
| Host Neighborhood or Lake Assn. Mtgs | \$1,200.00 | | | | | \$0.00 | \$1,200.00 |
| General Education Requests | \$1,000.00 | | | | | \$0.00 | \$1,000.00 |
| Metro Watershed Partners Membership | \$1,000.00 | | | | \$1,000.00 | \$1,000.00 | \$0.00 |
| Board Tour / Boat Tour | \$4,000.00 | | | | | \$0.00 | \$4,000.00 |
| Website Maint. | \$1,700.00 | | \$225.00 | | | \$225.00 | \$1,475.00 |
| CAC Coordination | \$1,120.00 | | | | | \$0.00 | \$1,120.00 |
| Board Education | \$1,500.00 | | | | | \$0.00 | \$1,500.00 |
| Administration | | | | | | | |
| General Administration | \$30,000.00 | \$2.00 | \$4,012.00 | \$4.00 | \$2.00 | \$4,020.00 | \$25,980.00 |
| Accounting Services | \$1,400.00 | | | | | \$0.00 | \$1,400.00 |
| Insurance | \$2,500.00 | | | | | \$0.00 | \$2,500.00 |
| Attorney and Audit | \$4,500.00 | \$34.00 | \$664.80 | \$325.00 | | \$1,023.80 | \$3,476.20 |
| BWSR FY16-19 CWF & WBF Grants³ | \$550,000.00 | \$0.00 | \$203,729.78 | \$270,979.37 | \$0.00 | \$474,709.15 | \$75,290.85 |
| Subtotal Operating Costs Only | \$142,920.00 | \$3,508.00 | \$10,371.80 | \$7,536.00 | \$1,957.00 | \$23,372.80 | |
| TOTAL EXPENSES | \$835,840.00 | \$3,508.00 | \$214,101.58 | \$278,515.37 | \$1,957.00 | \$498,081.95 | |
| Overall Fund Balance | | \$376,255.11 | \$162,496.77 | \$162,445.39 | \$222,751.77 | | |
| Total Clean Water Fund Grant Balance | | \$212,956.51 | \$9,226.73 | -\$31,352.64 | -\$31,352.64 | | |
| LMRWMO Operating Fund Balance | | \$163,298.60 | \$153,270.04 | \$193,798.03 | \$254,104.41 | | |
| Unencumbered Operating Fund Balance¹ | | \$118,298.60 | \$108,270.04 | \$148,798.03 | \$209,104.41 | | |

Carryover Fund Balance from Dec. 10, 2020 \$ 379,059.64

2020 Budget Notes:

- \$45,000 total set aside in 2021 for Watershed Management Plan
- Budget is an estimate and will vary depending on grant project progress.

| LMRWMO Grants Financial Summary (2016-2021) | | | | | | | | | | | | |
|--|-----------------------|---------------------------|----------------------------------|----------------------------------|--------------------------------|--------------------------------|---------------------------|----------------------|----------------------|------------------------|-----------------------|-----------------------|
| ESTIMATED REVENUES AND ASSETS | Budget | Sum: Mar 10 - Dec 14 2016 | Sum: Dec 15, 2016 - Dec 13, 2017 | Sum: Dec 14, 2017 - Dec 12, 2018 | Sum: Dec 13 2018 - Dec 11 2019 | Sum: Dec 13 2018 - Dec 11 2019 | Dec 10 2020 - Jan 13 2021 | Jan 14 - Feb 10 2021 | Feb 11 - Mar 10 2021 | Mar 12 - April 14 2021 | Total | Variance |
| BWSR FY16-18 CWF Grant Payment - Thompson | \$576,000.00 | \$288,000.00 | | | | | | | \$230,400.00 | | \$518,400.00 | (\$57,600.00) |
| BWSR FY16-18 CWF Grant Payments - Alum | \$196,000.00 | \$98,000.00 | | | \$78,400.00 | \$19,600.00 | | | | | \$196,000.00 | \$0.00 |
| BWSR FY18 CWF Grant Payments - Cherokee | \$700,000.00 | | | \$350,000.00 | \$280,000.00 | | | | | | \$630,000.00 | (\$70,000.00) |
| *Lake Augusta Matching Funds ¹ | \$24,500.00 | | \$37,500.00 | | | | | | | | \$37,500.00 | \$13,000.00 |
| *Sunfish Lake Matching Funds | \$24,500.00 | \$26,129.13 | \$870.97 | | | | | | | | \$27,000.10 | \$2,500.10 |
| Thompson Lake Matching Funds | \$144,000.00 | | | | | | | | | | \$0.00 | (\$144,000.00) |
| FY-2019 Watershed Based Funds | \$144,670.00 | | | | \$72,335.00 | | | | | | \$72,335.00 | (\$72,335.00) |
| TOTAL MATCH FUND RECEIVED | \$193,000.00 | \$26,129.13 | \$38,370.97 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$64,500.10 | (\$128,499.90) |
| TOTAL GRANT FUNDS RECEIVED | \$1,616,670.00 | \$386,000.00 | \$0.00 | \$350,000.00 | \$430,735.00 | \$19,600.00 | \$0.00 | \$0.00 | \$230,400.00 | \$0.00 | \$1,416,735.00 | (\$808,335.00) |
| ESTIMATED EXPENSES AND LIABILITIES | Budget | Sum: Mar 10 - Dec 14 2016 | Sum: Dec 15, 2016 - Dec 13, 2017 | Sum: Dec 14, 2017 - Dec 12, 2018 | Sum: Dec 13 2018 - Dec 11 2019 | Sum: Dec 12 2019 - Dec 9 2020 | Dec 10 2020 - Jan 13 2021 | Jan 14 - Feb 10 2021 | Feb 11 - Mar 10 2021 | Mar 12 - April 14 2021 | Total | Balance Remaining |
| Thompson Lake Stormwater Improvements | | | | | | | | | | | | |
| Grant Administration | \$15,000.00 | | \$1,912.50 | \$2,437.50 | \$3,256.48 | \$1,054.02 | | \$1,169.94 | | | \$9,830.44 | \$5,169.56 |
| Project Development | \$15,000.00 | \$1,077.50 | \$4,347.50 | \$8,737.50 | \$5,983.64 | \$2,490.12 | | \$415.14 | | | \$23,051.40 | (\$8,051.40) |
| Education and Outreach | \$18,000.00 | | | \$2,375.00 | \$18,072.64 | \$730.37 | | | | | \$21,178.01 | (\$3,178.01) |
| Engineering, Design, Permitting | \$140,000.00 | | \$1,960.00 | \$44,409.65 | \$56,869.10 | \$3,090.26 | | \$49,918.24 | | | \$156,247.26 | (\$16,247.26) |
| Forebay, Wetland, & Pond Install | \$344,000.00 | | | | \$72,719.65 | \$71,912.11 | | \$187,406.13 | | | \$332,037.89 | \$11,962.11 |
| Forebay, Wetland, & Pond Install Match | \$144,000.00 | | | \$11,102.41 | \$63,382.60 | | | \$304,001.72 | | | \$378,486.73 | (\$234,486.73) |
| Water Reuse Irrigation System | \$44,000.00 | | | | | | | \$33,655.00 | | | \$33,655.00 | \$10,345.00 |
| Cherokee Heights Stormwater | | | | | | | | | | | | |
| Grant Administration | \$12,000.00 | | | \$520.00 | \$5,014.73 | \$1,927.77 | | | | | \$7,462.50 | \$4,537.50 |
| Project Development | \$10,000.00 | | | \$5,240.00 | \$5,543.36 | \$1,118.01 | | | | | \$11,901.37 | (\$1,901.37) |
| Rainbarrel Program | \$15,000.00 | | | \$840.00 | \$11,163.91 | | | | | | \$12,003.91 | \$2,996.09 |
| Ravine Stabilization | \$275,000.00 | | | | \$187,519.28 | | | \$155,142.40 | | | \$342,661.68 | (\$67,661.68) |
| Ravine Stabilization Match | \$210,000.00 | | | | \$57,996.18 | | | | | | \$57,996.18 | \$152,003.82 |
| Ravine Stabilization Engineering, Design | \$137,000.00 | | | | \$90,323.45 | | | \$46,964.56 | | | \$137,288.01 | (\$288.01) |
| Stormwater BMP Construction | \$211,000.00 | | | | \$137,011.46 | | | | | | \$137,011.46 | \$73,988.54 |
| Stormwater BMP Construction Match | \$170,000.00 | | | | \$117,003.82 | | | | | | \$117,003.82 | \$52,996.18 |
| Stormwater BMP Engineering, Design | \$40,000.00 | | | | \$25,448.93 | | | | | | \$25,448.93 | \$14,551.07 |
| FY 2019 Watershed Based Funding | | | | | | | | | | | | |
| Grant Administration | \$8,000.00 | | | | \$37.35 | \$43.23 | | | | | \$80.58 | \$7,919.42 |
| Education Program Implementation | \$36,000.00 | | | | \$914.60 | | | | | | \$914.60 | \$35,085.40 |
| Education Program Project Dev. | \$4,670.00 | | | | \$87.41 | \$144.22 | | | | | \$231.63 | \$4,438.37 |
| Education Program Project Dev. Match | \$4,670.00 | | | | | | | | | | \$0.00 | \$4,670.00 |
| Interstate Valley Creek Project Dev. | \$4,000.00 | | | | \$74.69 | | | | | | \$74.69 | \$3,925.31 |
| Interstate Valley Creek Study | \$44,000.00 | | | | | | | | | | \$0.00 | \$44,000.00 |
| Interstate Valley Creek Study Match | \$25,000.00 | | | | | | | | | | \$0.00 | \$25,000.00 |
| Lake Augusta Project Development | \$4,000.00 | | | | \$373.45 | \$597.10 | | \$37.74 | | | \$1,008.29 | \$2,991.71 |
| Lake Augusta Study | \$44,000.00 | | | | | | | | | | \$0.00 | \$44,000.00 |
| Lake Augusta Study Match | \$30,000.00 | | | | | | | | | | \$0.00 | \$30,000.00 |
| TOTAL GRANT EXPENSE | \$1,616,670.00 | \$10,086.31 | \$184,091.92 | \$70,759.05 | \$625,334.00 | \$83,107.21 | \$0.00 | \$203,729.78 | \$270,979.37 | \$0.00 | \$1,448,087.64 | \$168,582.36 |
| TOTAL MATCH EXPENSE | \$632,670.00 | \$0.00 | \$64,493.80 | \$11,102.41 | \$238,382.60 | \$0.00 | \$0.00 | \$0.00 | \$304,001.72 | \$0.00 | \$617,980.53 | \$14,689.47 |
| LMRWMO GRANT FUND BALANCE | | \$375,913.69 | \$191,821.78 | \$471,062.73 | \$276,463.72 | \$212,956.51 | \$212,956.51 | \$9,226.73 | -\$31,352.64 | -\$31,352.64 | | |

1. Includes \$35,000 from City, \$2,500 from Lake Augusta residents.

Note: Budget reflects most recent BWSR work plan, not original work plan

Note: Revenue and expenditures from 2016, 2017, 2018, and 2019 are shown but have been aggregated

LMRWMO

LOWER MISSISSIPPI RIVER
WATERSHED MANAGEMENT ORGANIZATION

2021 NEWSLETTER

LMRWMO MISSION: Water resources and related ecosystems are managed to sustain their long-term health and integrity through member city collaboration and partnerships with other water management organizations with member city citizen support and participation.

WATERSHED MANAGEMENT PLAN UPDATE TEN YEAR PLAN TO SET DIRECTION OF LMRWMO

The LMRWMO has begun the process to update its ten-year Comprehensive Watershed Management Plan. This means that throughout 2021 and 2022, the LMRWMO Board will lead the process to gather public input on what water resources issues exist that need to be addressed through LMRWMO studies, projects, or programs. These can range from large-scale lake and watershed studies, stormwater capital improvement projects, to backyard raingarden conservation and education programs. Priorities are identified through input from various sources. Public input is sought via a public meeting and online survey, as well as a Citizen Advisory Committee who meets regularly to discuss the plan and make recommendations to the LMRWMO Board on various plan elements.



Ravine erosion identified and repaired as part of previous LMRWMO Plan

management, large scale erosion issues, wetland management, stream erosion and general surface water (lakes, river, stream) pollution concerns.

A Technical Advisory Committee is also formed with local professionals, such as engineers and planners, as well as State and Regional government agency professionals to consult on the more technical aspects of the plan. Ultimately, the LMRWMO Board will decide on the final plan content through review at their regular LMRWMO Board meetings.

Water resource issues that are typically included in the LMRWMO plan include stormwater runoff

management, large scale erosion issues, wetland management, stream erosion and general surface water (lakes, river, stream) pollution concerns.

If interested in serving on the LMRWMO Citizen Advisory Committee through the plan update process, please contact the LMRWMO Administrator:

joe.barten@co.dakota.mn.us.

BECOME A CITIZEN WATER QUALITY MONITOR!

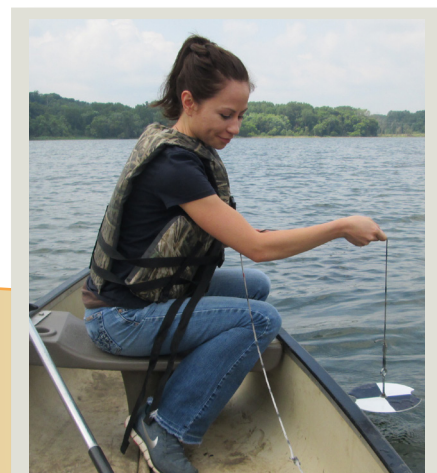
Help us gather the vital data to inform our lake and stream management decisions and ensure the lasting health of the LMRWMO lakes and streams.

Monitoring typically involves Secchi disk measurements to track the water transparency as well as measurements of phosphorus and chlorophyll in a lake. These indicate how excess nutrients in the lake are causing algae growth and making lakes unusable.

If you would like to learn how to become a water monitor, contact the LMRWMO Administrator below:

(651) 480-7777

joe.barten@co.dakota.mn.us



Using a Secchi disk to measure water clarity

WATERSHED MANAGEMENT ORGANIZATION FACTS:

- WMOs are funded by the cities within their jurisdiction.
- WMOs are governed by a citizen board appointed by the member cities.
- The WMO was formed in 1985 after the Metro Surface Water Mgmt. Act was passed.

LANDSCAPING FOR CLEAN WATER GOES DIGITAL

ONLINE DESIGN COURSES & \$250 GRANTS AVAILABLE

The Landscaping for Clean Water program makes it easy for residents of the LMRWMO to turn their yards into an attractive force for clean water. Each of us has the opportunity to create a landscape on our property which will benefit our lakes, streams, and wetlands by soaking water into the ground, providing pollinator habitat, and stabilizing eroded slopes and shorelines. The introductory and design classes are now being offered online, to give you the tools and knowledge to transform your yard for the better. Register today to get access to the online materials as well as online one-on-one office hours for personal, professional design assistance for your native gardens, raingardens, or native shoreline planting project.



The program provides an overview of water quality challenges and provides beautiful and practical ways to transform your yard into a beneficial landscape. You will also learn about \$250 grants available to participants. After the introductory video, you can sign up for a \$25 online design workshop. Workshops are being offered online now! Register online or call for more information: (651) 480-7777 or visit: www.dakotaswcd.org

DID YOU KNOW?

The LMRWMO Board of Managers is made up of citizen appointees who set the budget and direction of the organization. Contact us if you'd like to fill a Board vacancy for one of the bolded Cities below.

- Inver Grove Heights
- Lilydale
- Mendota Heights
- **Sunfish Lake**
- **South St. Paul**
- **St. Paul**
- West St. Paul

2021 BUDGET

The LMRWMO is funded by member City dues based on land area and property value. Grant assistance is also provided through partnership entities to fulfill the mission of the LMRWMO. See below for more information.

NEW WEBSITE

The LMRWMO is updating it's website! Stay tuned for the exciting new look. The new website will include additional information on LMRWMO projects, studies, and water monitoring information.

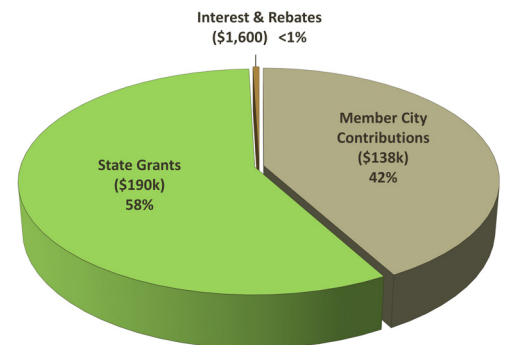
ABOUT THE WMO

The Lower Mississippi River Watershed Management Organization, located in northern Dakota County and southern Ramsey County, covers 55.8 square miles and includes Inver Grove Heights, St. Paul, South St. Paul, West St. Paul, Lilydale, Mendota Heights, and Sunfish Lake. The LMRWMO was established by a Joint Powers Agreement to meet the requirements of the Metropolitan Surface Water Management Act of 1982.

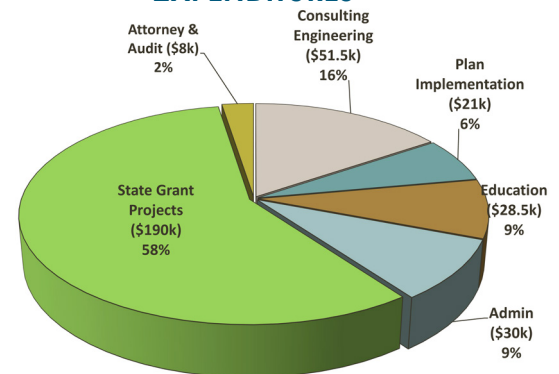
The premise of the Surface Water Management Act is that rain and stormwater runoff are not contained within municipal boundaries. Rain that falls in one community may run through another causing flooding, erosion, or the degradation of water quality downstream. The LMRWMO addresses intercommunity stormwater issues works to protect surface waters. Visit the LMRWMO website (below) for more information.

www.dakotacountywcd.org/watersheds/lowermisswmo/index.html

REVENUE



EXPENDITURES



The LMRWMO Board of Managers is comprised of up to two appointed representatives from each member city, listed below

Sharon Lencowski (Chair) - Inver Grove Heights
Tenzin Dolkar (Member) - Inver Grove Heights
Karen Reid (Vice Chair) - Saint Paul
Mary Jeanne Schneeman (Sec/Tres) - Mendota Heights

Jill Smith (Alternate) - Mendota Heights
Michael Randle (Member) - South St. Paul
Tom Sutton (Member) - Lilydale
Lyle Hanzal (Alternate) - Lilydale

Sheila Vanney (Member) - West St. Paul
Julie Eastman (Member) - West St. Paul
Administrator - Joe Barten (651) 480-7777

LMRWMO

LOWER MISSISSIPPI RIVER WATERSHED MANAGEMENT ORGANIZATION

2020 ANNUAL ACTIVITY REPORT

This annual activity report by the Lower Mississippi River Watershed Management Organization (LMRWMO) is for activities performed during calendar year 2020 and was prepared pursuant to MN Rules Chapter 8410, part 8410.0150, Subpart 3.

Background

A joint powers agreement was executed on October 25, 1985, which established and empowered the Lower Mississippi River Watershed Management Organization (LMRWMO). The LMRWMO is located in the southeast part of the Twin Cities metropolitan area, in northern Dakota County and southern Ramsey County. The LMRWMO abuts the south and west sides of the Mississippi River, from the Mississippi River's confluence with the Minnesota River down to Rosemount.

The LMRWMO covers 55.8 square miles (35,493 acres) and is composed of seven cities partially or wholly within the WMO boundaries. The LMRWMO member cities are: Inver Grove Heights, Lilydale, Mendota Heights, Saint Paul, South St. Paul, Sunfish Lake, and West St. Paul. Surface water in the LMRWMO ultimately discharges to the Mississippi River. The Board of Managers, which consists of appointed representatives from the member Cities as of 12-31-20, is listed below:

Representative

Sharon Lencowski (Chair)
Tom Sutton
Lyle Hanzal
Mary Jeanne Schneeman (Secretary/Treasurer)
Jill Smith
Karen Reid (Vice-Chair)
Patti O'Leary
Sheila Vanney

Member City

Inver Grove Heights Manager
Lilydale Manager
Lilydale Alternate Manager
Mendota Heights Manager
Mendota Heights Alternate Manager
Saint Paul Manager
Sunfish Lake Manager
West St. Paul Manager

A complete contact list including addresses and phone numbers of the Board of Managers, as of 12-31-20, is attached to this document.

The Dakota County Soil and Water Conservation District (SWCD) serves as the Administrator for the LMRWMO, with Joe Barten as the Administration contact.

2020 Completed Activities

The LMRWMO's 2011 Watershed Management Plan (Plan) includes an implementation program. Tables 1, 2, and 3 below contain lists of implementation activities identified in the Plan and the status of the activities listed. Additional details on LMRWMO activities in 2020 include:

General:

- Contracted with the Dakota County Soil and Water Conservation District (SWCD) to provide administrative, education, technical assistance, project management, and grant administration services, and to act as the public liaison for the LMRWMO.
- Continued monthly grant tracking program with sources of funding for all state and local stormwater related grant program to assist the LMRWMO and member cities in identifying additional funding sources for project implementation.
- Participated in Dakota County groundwater plan update stakeholder process.
- Participated in the Minnesota River 1 Watershed – 1 Plan process and opted to not be a participating entity in the plan creation.
- Initiated Watershed Management Plan update process and selected consultant to assist in plan update.
- Participate in the Metro Watershed Based Funding stakeholder meetings and identify projects for implementation.
- Finalize reporting for the FY-2016 Sunfish Lake and Lake Augusta aluminum sulfate treatment grant.
- Monitored lakes within the LMRWMO for water quality parameters in coordination with the Metropolitan Council's Citizen Assisted Monitoring Program (CAMP) and numerous citizen volunteers.
- Coordinated with local and state agencies on all matters related to the LMRWMO duties.

Education:

- Participated in the Freshwater Society's MN Water Stewards (MWS) program. Two community members were sponsored to participate in the program to become Lower Mississippi River WMO MN Water Stewards. Provided a MWS LMRWMO project tour.
- Participated in and provided funding to the Metro Watershed Partners Clean Water MN program, a coalition of public, private and non-profit organizations in the Twin Cities metro area that promotes public understanding through collaborative educational outreach that inspires people to act to protect and improve their local water resources.
- Participated in the Adopt-A-Drain program through the Metro Watershed partnership, which had 216 total participants in the Adopt-A-Drain program with 330 drains adopted. Based on data submittals of participants, it is estimated that this produced a total of 4,458 lbs of leaf litter, sediment, trash, and debris collected.

- Distributed stormwater educational articles from Clean Water MN to Member cities for use in social media, newsletter, website, and print public education and outreach materials.
- Maintained an up to date LMRWMO website to communicate water resource related information and additional educational information to the public regarding the current activities of the LMRWMO, available programs, as well as relevant information on the Mississippi River and other organizations.

Projects:

- Finalized the FY-2018 Clean Water Fund grant for the Cherokee Heights Stormwater Improvement and Ravine Stabilization project in coordination with the Cities of Saint Paul, Mendota Heights, and West St. Paul. Installation of two hydrodynamic separators was completed in June of 2018. Construction of the ravine/channel stabilization portion was substantially completed in 2019 with some punch list, repair, and maintenance work in 2020.
- Finalized the FY-2016 Clean Water Fund grant for aluminum sulfate treatments on Sunfish Lake and Lake Augusta in coordination with numerous citizen, City, and Dakota County project partners.
- Finalized the FY-2016 Clean Water Fund grant for Thompson Lake stormwater improvements in coordination with Dakota County and City of West St. Paul. Project punch list items were addressed in 2020 and the grant was finalized.
- Participated in the Landscaping for Clean Water (LCW) workshop series and funded three classes in partnership with the Dakota SWCD. Through this program 100 people attended an introduction class to learn about the benefits of raingardens, native gardens, and native shoreline plantings. Along with the other LCW classes, this effort resulted in 35 residents of the LMRWMO attending the LCW design workshops to create project 35 project designs. The LMRWMO then provided \$250 grants for 15 residential conservation projects (raingardens and native gardens) installed by those participants. The LMRWMO also provided funding for technical assistance to be provided by the Dakota SWCD for those watershed residents. See <https://dakotaswcd.org/conservation-projects/> for locations and descriptions of completed projects. 2020 LCW Program fact sheet attached.
- Provided analysis and allowable flow cost allocation amounts for the Seidls Lake lift station project with the Cities of South St. Paul, Inver Grove Heights, and West St. Paul.

2021 Work Plan

The LMRWMO plans to conduct the following activities in 2021:

- Continue the process to update the LMRWMO Watershed Management Plan.
- Update the LMRWMO website to a more comprehensive and user-friendly format.
- Continue implementation of items identified in the FY2019 Metro Watershed Based Implementation Funding grant and the FY2021 Metro Watershed Based Implementation Funding grant.
- Finalize an agreement for maintenance of the Cherokee Heights Ravine Stabilization and BMP Implementation project.

- Sponsor four participants in the MN Water Steward program, lead the check in meetings, provide a watershed tour, and assist them in implementing their capstone projects.
- Continue to collaborate with member cities to identify opportunities to partner and cost share to complete water quality and quantity improvement projects.
- Implement items identified in the LMRWMO Education and Outreach Plan.
- Continue to prioritize implementation projects and programs, apply for grants, and assist member cities in obtaining grants through use of grant tracking program.
- Continue to maintain and update the LMRWMO website with information relevant to the public.
- Continue to provide educational workshops to LMRWMO residents through participation in the Landscaping for Clean Water education program.
- Continue cost sharing grant funding for the installation of residential raingardens and other stormwater management projects in partnership with the Dakota County SWCD’s Landscaping for Clean Water program.
- Continue to monitor lakes and streams through the Met Council Citizen Assisted Monitoring Program (CAMP), including Pickerel Lake, Lake Augusta, Sunfish Lake, Thompson Lake, Schmitt Lake, Dickman Lake, Seidls Lake, Interstate Valley Creek, and Ivy Falls Creek.
- Assist in determining cost allocation for LMRWMO member City shared projects, should they arise.

In addition to the planned activities listed above, member Cities will continue to perform water resources management, water quality, and educational activities through City programs and services.

Watershed Management Plan Implementation Item Review

Key for Implementation Tables 1, 2, and 3.

| | | |
|--|--|--|
| Implementation item is complete, partially complete, or in progress. | Implementation item requires action by the LMRWMO. | Implementation item is no longer necessary or no action is planned by the LMRWMO at this time. |
|--|--|--|

Table 1. Implementation Status of Project List from 2011 Watershed Management Plan

| Planned Actions or Activities | Proposed Timeframe | Actual Timeframe | Accomplishments to Date | Next Steps |
|---|--------------------|------------------|---|--|
| Local government to construct BMPs to reduce negative impacts of development upstream of Hornbean Lake. | 2014 | None | To be constructed in coordination with new development. | Current development standards to drive water quality projects with future development. |

| | | | | |
|--|------|--------------|--|---|
| Local government to construct improvements to reduce flooding/erosion at Marie Ave/Dodd Rd (feasibility study has been completed). | 2012 | 2013 | A rate control pond was constructed at NE corner of Dodd and Marie to control flow downstream, reducing erosion and allowing sediment to settle out of suspension and be removed. | Project complete. |
| Local government to construct improvements to provide rate control and stream bank stabilization north of Marie Ave in Interstate Valley Creek Watershed | 2017 | 2011 to 2020 | Some streambank stabilization projects have been constructed on the unnamed reaches of the Interstate Valley Creek headwaters. These have been constructed on an individual basis. LMRWMO's Landscaping for Clean Water program can help provide funding for landowner projects in coordination with the Dakota SWCD. | A feasibility study for streambank stabilization and rate control options will be completed as part of the FY-2019 Watershed Based Funding work plan. |
| Local government to construct improvements to stabilize erosion-prone areas along the Mississippi River. | 2020 | 2018 to 2020 | In progress. Inver Grove Heights completed a feasibility study for Stormwater Facilities in Areas Tributary to the Mississippi River in 2016 which identified 11 prioritized projects. The city/WMO is currently pursuing State and Met Council grant opportunities for implementation of these water quality and erosion stabilization projects. City of IGH was awarded a PSIG grant for the 78 th and Concord project. City completed a feasibility study in 2018 for Dickman Trail outfall. Feasibility study completed in 2015 for the Cherokee Heights ravine and FY2018 grant awarded for ravine stabilization Lilydale Park area. Watershed-wide study not yet initiated. | Continue to seek funding to implement those projects identified in the study. |
| Local government to construct Lexington Avenue-Trunk Highway 13 Drainage and Erosion Improvements. | 2015 | 2015 to 2016 | Feasibility study completed in 2010 and identified cost share amounts for participating cities. Project implemented in 2015 with substantial completion in 2016. Received funding through 2016 Met Council stormwater program for sediment reduction improvements. | Project complete. |

| | | | | |
|---|------|--------------|---|---|
| Local government to construct Seidls Pond/Lake lift station. | 2016 | 2020 to 2021 | Feasibility study was completed in 2004. Applied and turned down for Clean Water Fund grant in 2014. Applied for a 2017 grant and received a, ENRTF grant for water quality project at Seidl's Lake. | Lift station design is complete and project is out to bid for planned construction in 2021 or 2022. |
| Local government to construct Dawn Way Storm Sewer Improvement Project | 2019 | 2019 to 2021 | Allowable flow cost apportionment was completed in 2008. Funds have been allocated in budgets by the participating cities. | Finalize proposed approach for project implementation. |
| Stormwater BMPs or education to improve stormwater management upstream of Rogers Lake | 2020 | 2011 to 2012 | WRAPS Study completed in 2014. Stormwater BMPs planned to be implemented in conjunction with development / redevelopment. Raingardens and sump manholes installed with reconstruction of Robert Trail. Door knocking education campaign completed by St. Thomas Academy students. Educational material mailing campaign to watershed residents. LMRWMO's Landscaping for Clean Water program can help provide funding for projects and stormwater education within watershed going forward. | Current development standards to drive water quality projects with future development. Continue LMRWMO's Landscaping for Clean Water program. |
| Ravine/bluff stabilization in Ivy Creek, Lilydale Park, and/or near Pickerel Lake | 2019 | 2014 to 2020 | In progress. Pickerel Lake was part of the 2014 WRAPS Study. Feasibility study initiated in 2014 and completed in 2015 in the Cherokee Heights portion of Lilydale Park near Pickerel Lake. Have received BWSR flood relief funds for repair of severely eroded "North Knob" area and Clean Water funds for | Continue to seek funding and coordinate with City of St. Paul, Ramsey County, and BWSR on implementing improvements to Lilydale Park area. Much progress already made on stream sections. |
| Phosphorus treatment in Sunfish Lake | 2017 | 2017 to 2019 | Part of the 2014 WRAPS Study. Awarded FY2016 CWF grant dollars for implementation. | Project complete, finalized grant. |

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|---|------|--------------|---|--|
| Thompson Lake Stormwater/Sediment Improvement Project | 2016 | 2017 to 2020 | Separate Thompson Lake PAH contamination feasibility study completed in 2014. Part of the 2014 WRAPS Study. Awarded FY2016 CWF grant dollars for implementation. | Project complete, finalizing grant closeout. |
| Phosphorus treatment in Augusta Lake | 2016 | 2017 to 2019 | Part of the 2014 WRAPS Study. Awarded FY2016 CWF grant dollars for implementation. | Project complete, finalize grant. Will continue with lake study to identify further lake improvement activities. |
| Cherokee Heights culvert analysis and erosion control improvement project | 2016 | 2018 to 2020 | Feasibility study completed in 2015 for the upper Cherokee Heights ravine portion of Lilydale Park. Applied for but did not receive FY2016 and FY2017 CWF grant dollars for implementation. Received FY2018 CWF grant dollars for ravine stabilization and stormwater improvements. | Project complete, finalizing grant closeout. |

Table 2. Implementation Status of Programs List from 2011 LMRWMO Watershed Management Plan

| Planned Actions or Activities | Proposed Timeframe | Actual Timeframe | Accomplishments to Date | Next Steps |
|---|--------------------|------------------|---|---|
| Address BWSR performance standards | Every year | Every year | On-going implementation. PRAP Level II Review Completed in 2016. | Continue to address on an annual basis. |
| Transition to an all citizen Board | TBD | TBD | All LMRWMO Board members are citizens. | Completed. |
| Revise JPA to reflect 3rd Generation Plan | 2011 | 2011 | JPA revised and approved by communities in 2012 - 3rd revision to change WMO boundary approved in 2014. | Completed. |
| Revise JPA to broaden membership of formal Technical Advisory Committee | 2011 | 2011 | JPA revised and approved by communities in 2012. | Completed. |

| | | | | |
|---|-------------|--------------|---|---|
| Revise JPA to include a water quality cost allocation formula | 2011 | 2011 | Cost share allocation formula was developed and approved in 2012; JPA revised and approved by communities in 2012. | Completed. |
| Implement permanent Citizen Advisory Committee (CAC) | Every year | Every year | Involved citizens are kept informed of LMRWMO activities via an email list, informed about pertinent LMRWMO programs and projects via email, and invited to LMRWMO events as necessary. | None planned at this time. |
| Maintain LMRWMO website to communicate water resource related information | Every year | Every year | On-going implementation; all meeting agendas, materials, and minutes are posted regularly. Created water monitoring web page in 2016. | Continue to update website with relevant information. |
| WMO administration | Every year | Every year | On-going. | Continue as planned. |
| WMO annual insurance premiums | Every year | Every year | On-going. | Continue as planned. |
| WMO attorney and audit expenses | Every year | Every year | On-going. | Continue as planned. |
| Publish annual WMO newsletter for public distribution | Every year | Every year | Published on an annual basis and distributed to member Cities for public posting and distribution. | Continue as planned. |
| Review annual evaluation reports from member cities | Every year | Every year | Cities may report activities at monthly LMRWMO meetings. | Continue as planned. |
| Review member City local plan updates for consistency with WMO Plan | 2012 & 2013 | 2012 to 2018 | 3 of 7 cities have approved plans. Provided guidance to cities in 2016 on timeline for approval with revised State statutes. | Continue to review City local plans as updated. |
| Develop water resource educational content | Every year | Every year | Education opportunities annually available to residents through Landscaping for Clean Water classes and Metro Watershed Partners. Watershed education provided through FY16 CWF grant efforts in 2016-2018 as well as MWS program and continued implementation of the LMRWMO Education and Outreach Plan. | Continue as planned. |

| | | | | |
|---|--------------|--------------|--|--|
| Coordinate/conduct non-certification training for member city staff to address items in MS4 permit | 2012 & 2017 | - | Member City representatives and topic experts regularly present to the LMRWMO Board on activities related to the MS4 permit. | Continue informal presentations by member City staff on MS4 activities and requirements. |
| Participate in the Dakota County SWCD's Landscaping for Clean Water Program (formerly Blue Thumb) | Every year | Every year | Provide yearly introduction and design courses to LMRWMO residents and have provided grants for 103 projects since 2011. | Continue to participate/provide program to residents of the LMRWMO. |
| Assist member cities in addressing the South Metro Mississippi TMDL and other TMDLs as they are completed | 2012 to 2020 | 2012 to 2020 | LMRWMO member Cities and staff have been engaged with agency staff on both the South Metro Mississippi TMDL and the Upper Mississippi River Bacteria TMDL. LMRWMO Engineers have assisted in data transmittals, as requested. | None planned at this time. Will continue involvement as requested. |
| Develop annual water quality monitoring program for water bodies and outfalls to the Mississippi River | 2011 | 2012 | Annual evaluation of water monitoring is performed by the Board. | Continue as planned. |
| Implement water quality monitoring program to assess water bodies and outfalls to the Mississippi River | 2012 to 2020 | 2012 to 2020 | The LMRWMO has conducted or financially supported monitoring numerous lakes within the watershed since 2012, often through the CAMP. Outfall of Interstate Valley Creek monitored in 2019, 2020, and in 2021. Ivy Falls Creek to be monitored in 2021. | Continue as planned. |
| Develop outreach program to assist member cities with MS4 permit renewal | 2012 | - | No activity to report. There has not been a need for this program. | None planned at this time. |
| Pursue locations to conduct wetland restoration for a wetland bank program | 2014 | - | No activity to report. There has not been a need for this program. | None planned at this time. |

| | | | | |
|--|---------------|--------------|--|---|
| Conduct or facilitate joint certification training for member city staff on designing and inspecting erosion control plans and inspecting erosion control measures | 2013 and 2018 | - | There is no longer a need for this task. All cities in the WMO have staff that assures proper certifications through the MnDOT certification program. | None planned at this time. |
| Develop a pond and BMP maintenance program | 2012 | - | No activity to report. New MS4 permit requirements will drive this program. | None planned at this time. Cities will continue responsibility. |
| Assist member cities in pursuing grants available to watersheds | Every year | Every year | On-going. Documents that track grant opportunities are presented to Board members at monthly meetings. The LMRWMO has assisted member cities in preparing and submitting grant applications in since 2012. | Continue monthly tracking and assist member cities in pursuing grant opportunities. |
| Monitoring of Pickerel Lake and/or inflows to Pickerel Lake | 2015 to 2020 | 2015 to 2020 | Monitoring done through CAMP program. Monitoring on Ivy Falls Creek in 2019 | Continue monitoring through CAMP program. |

Table 3. Implementation Status of Studies List from 2011 LMRWMO Watershed Management Plan

| Planned Actions or Activities | Proposed Timeframe | Actual Timeframe | Accomplishments to Date | Next Steps |
|---|--------------------|------------------|--|---|
| Utilize MIDS, once complete, to determine effectiveness of existing BMPs throughout the WMO | 2013 | - | No activity to report. | None planned at this time. Individual Cities will maintain standards that meet LMRWMO minimum requirements. |
| Complete feasibility study to address PAHs in Thompson Lake | 2012 | 2013 to 2014 | Project initiated in 2013 and was completed in 2014. | Completed. |
| Complete feasibility study to investigate debris and floatables in Simley Lake | 2012 | - | This study is no longer considered necessary. | None planned at this time. |

| | | | | |
|--|--------------|--------------|--|--|
| Evaluate landlocked basins with flood concerns or future flood potential or on an as needed basis | 2014 | 2014 to 2020 | This activity has and will continue to be pursued by individual Cities as needed. | None planned at this time. |
| Complete feasibility study to provide rate control and streambank stabilization north of Marie Ave. in Interstate Valley Creek Watershed | 2013 | 2019 to 2021 | Some stabilization improvements have been completed. | Included in Metro WBIF work plan, feasibility study planned for 2021. |
| Investigate opportunities to implement access points to improve access to water resources (e.g. fishing pier, observation platform) | 2015 | 2015 to 2020 | Opportunities have been investigated at Rogers Lake. | None planned at this time. Will investigate as opportunities arise. |
| Evaluate DNR protected water bodies with known or potential problems and pursue shoreland restoration where needed | 2014 to 2020 | 2014 to 2020 | Grants for shoreline restoration are available from the LMRWMO through the Landscaping for Clean Water Program. | Continue providing shoreline restoration grants through Landscaping for Clean Water program. |
| Work with ACOE to identify location/extent of erosion issues on Mississippi River | 2013 | 2021 to 2022 | Will implement further study as part of FY2021 WBIF grant study of direct drainages. | Implement FY2021 WBIF grant work plan. |
| Monitor shoreland erosion around Golf Course pond and determine if remedial action is necessary | 2012 | 2011 to 2012 | City of Inver Grove Heights worked with golf course staff to remediate shoreland erosion in 2009. No additional erosion problems have occurred at that site. Additionally, 2011 and 2012 improvements were completed where the pond outlets near Babcock Trail to correct drainage and erosion issues. | Completed. |
| Verify the existing electronic and GIS boundary of the WMO matches the legal description from the JPA | 2011 | - | No longer necessary in original form as there is no legal description of boundary in JPA. BWSR now allows GIS boundary to serve as legal boundary. However, discoveries in 2020 may indicate discrepancies in GIS boundary. | None planned at this time. May require further study to identify GIS discrepancies, ie. Mendota. |

| | | | | |
|---|------------|---------------|--|--|
| Establish stormwater volume reduction requirements | 2013 | - | No activity to report. New MS4 permit requirements will drive this program and will be implemented by member cities. | None planned at this time. |
| Set aside funding for 4th Generation Watershed Management Plan | Every year | Every year | On-going. Currently \$5,000 per year is set aside for this purpose. | Continue as planned. |
| Cherokee Heights culvert analysis and erosion control feasibility study | 2014 | 2015 | Study completed in 2015. | Completed. |
| Feasibility Studies to evaluate ravine/bluff stabilization in Ivy Creek, Lilydale Park, and/or near Pickerel Lake | 2018 | 2015 and 2021 | Studies performed by the City of St. Paul for Lilydale park erosion issues. Will implement further study as part of FY2021 WBIF grant study of direct drainages. | Implement FY2021 WBIF grant work plan. |

2020 Lake Monitoring Data

The LMRWMO has conducted or supported monitoring numerous lakes within the watershed. The LMRWMO Board prioritizes monitoring annually and typically selects those to track progress where water quality projects have been implemented. Eight lakes within the LMRWMO were monitored through the Metropolitan Council’s Citizen Assisted Monitoring Program (CAMP) in 2020. Monitoring data, once available from the Metropolitan Council, will be posted on the [LMRWMO water monitoring web page](#). 2020 Monitoring reports for select lakes are attached.

2020 Wetland Monitoring Data

Some cities in the LMRWMO have been involved with Dakota County’s Wetland Health Evaluation Program (WHEP). WHEP uses citizen teams, led by a trained team leader, to collect plant and invertebrate samples from local wetlands to evaluate the health of the wetland. Over the years, participation by member cities has fluctuated due to the availability of funding and volunteers. In 2020, seven wetlands in the LMRWMO were monitored. A complete 2020 WHEP report is available at <http://www.mnwhep.org> under ‘WHEP Reports and Data’.

Status of Local Plan Adoption and Implementation

All of the member cities have prepared local water management plans that conform to the 2011 LMRWMO Plan and have been formally approved by the LMRWMO. Table 6 shows the compliance dates of the local plans. Updated requirements to MN Statutes 8410.0105, subdivision 9 and 8410.0160, subdivision 6 for the adoption of Local Water Management Plans will be followed by LMRWMO member Cities.

Table 6. Local Water Management Plan Status

| Member City | LMRWMO Approval Date for Conformance with 2011 Watershed Plan | LMRWMO Approval Date for conformance with 2001 Watershed Plan |
|---------------------|--|--|
| Inver Grove Heights | December 2018 | June 2008 |
| Lilydale | October 2018 | March 2008 |
| Mendota Heights | July 2018 | February 2006 |
| South St. Paul | December 2018 | January 2005 |
| St. Paul | June 2018 | September 2006 |
| Sunfish Lake | November 2018 | February 2009 |
| West St. Paul | December 2018 | September 2006 |

Permits and Variances

The LMRWMO does not have a permitting program. The individual member cities provide permitting of projects for land use, construction stormwater management, post-construction stormwater management, floodplain management, and Wetland Conservation Act enforcement.

Consultant Services Selection

As required, every two years solicitations are made to retain legal services, auditor services, and engineering consulting services. On June 12th, 2019, the LMRWMO Board retained services from the following consultants:

- Engineer: Barr Engineering Co.
- Attorney: Campbell Knutson, PA
- Auditor: Peterson Company Ltd.

Financial Statement and Audit

The LMRWMO maintains two checking accounts and a savings account. A financial audit was performed covering the 2020 finances. The 2020 LMRWMO financial audit was being finalized by the consultant and was not ready at the time the document was created.

Wetland Banking

The LMRWMO does not have a wetland banking program.

Attachments

- 2020 Board of Managers Contact List
- 2020 Landscaping for Clean Water Summary
- 2020 DRAFT Water Monitoring Factsheets
- 2021 Adopted Budget

| Phase | Memo Section | Task description | stakeholder engagement | | | | | 2020 | | | | | | | | | | | | 2021 | | | | | | | | | | | | 2022 | | | | | | | | | | | | | |
|---------|-------------------------------------|---|------------------------|-----|-----|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | | | managers | TAC | CAC | cities | agencies | public | Jan-20 | Feb-20 | Mar-20 | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 | Jul-21 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 | Oct-22 | Nov-22 | Dec-22 | |
| Phase 1 | 2.5, 2.6 | recruit and meet with TAC and CAC | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.2 | implement stakeholder survey | X | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.1 | distribute plan update notification and summarize responses | X | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.7 | engage community through events and interviews | X | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NA | Board visioning workshop | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4 | city officials event (boat tour) | X | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4 (revised) | city officials event (watershed tour) - designed to obtain feedback | X | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.3 | host initial planning meeting | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.8 (new) | Topic presentations to Board of Managers | X | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.9 (new) | Develop LMRWMO outreach template and communication pieces | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NA | aggregate data and update inventory | X | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Current Tasks:

- Ongoing online survey
- Planning for public kickoff meeting
- Review Plan Inventory
- Forming CAC/TAC

Upcoming Tasks:

- Host public kickoff meeting
- Review stakeholder input
- Develop outreach template



**Watershed Management Plan Update
Public Kickoff Meeting**

May 12, 2021

4:00-5:00 PM

Draft Agenda

- Welcome announcement
- Introduction to the LMRWMO
- Summary of the Plan update process
- Summary of issue identification to date
 - Issues from 2011 Plan
 - Responses to Plan notification letter
 - Online survey results
- Open discussion and comment
- Thank you and next steps

Technical Advisory Committee Contact List

| First | Last | Organization | Email | Address 1 | City | State |
|--------------|-----------|---|----------------------------------|-------------------------------------|---------------------|-------|
| Local | | O:\Agencies and Organizations\Watersheds\Lower Mississippi River WMO\Administration\Board of Managers | | | | |
| Pat | Murphy | St. Paul | patrick.g.murphy@ci.stpaul.mn.us | City of St Paul - Engineering | St Paul | MN |
| Sue | Polka | South St. Paul | spolka@southstpaul.org | City of South St Paul - Engineering | South St Paul | MN |
| Ross | Beckwith | West St. Paul | rbeckwith@wspmn.gov | City of West St Paul | West St Paul | MN |
| Jeff | Sandberg | Sunfish Lake | jsandberg@wsbeng.com | City of Sunfish Lake | | |
| Mary | Schultz | Lilydale | cityoflilydale@comcast.net | City of Lilydale | Lilydale | MN |
| Jim | Langseth | Lilydale | jlangseth@barr.com | City of Lilydale | Lilydale | MN |
| Tom | Kaldunski | Inver Grove Heights | tkaldunski@invergroveheights.org | City of Inver Grove Heights | Inver Grove Heights | MN |
| Ryan | Ruzek | Mendota Heights | ryanr@mendota-heights.com | City of Mendota Heights | Mendota Heights | MN |
| Krista | Spreiter | Mendota Heights | kristas@mendota-heights.com | City of Mendota Heights | Mendota Heights | MN |
| Brian | Mielke | Mendota Heights | bmielke@myservion.com | City of Mendota | Mendota | MN |

County

| | | | | | | |
|--------|------------|--------------------|--------------------------------|---------------------|--------------|----|
| Brian | Watson | Dakota County SWCD | brian.watson@co.dakota.mn.us | 4100 220th St West | Farmington | MN |
| Curt | Coudron | Dakota County SWCD | curt.coudron@co.dakota.mn.us | 4100 220th St West | Farmington | MN |
| Brad | Becker | Dakota County | brad.becker@co.dakota.mn.us | 14955 Galaxie Ave S | Apple Valley | MN |
| Mike | Behan | Dakota County | mike.behan@co.dakota.mn.us | | | |
| Ann | WhiteEagle | Ramsey County | Ann.WhiteEagle@co.ramsey.mn.us | 2015 Van Dyke St | Maplewood | MN |
| Other? | | Ramsey County | | | | |

Agency

| | | | | | | |
|---------|-----------|---|-------------------------------|--------------------------|-----------|----|
| | | https://bwsr.state.mn.us/sites/default/files/2019-06/Metro%20Plan_Review_Roster.pdf | | | | |
| Melissa | King | Water & Soil Resources Board | Melissa.King@state.mn.us | 520 Lafayette Road North | St Paul | MN |
| Beth | Neuendorf | State of Minnesota - Transportation | Beth.Neuendorf@state.mn.us | 1500 W. County Rd B2 | Roseville | MN |
| Jordan | Donatell | Pollution Control Agency | jordan.donatell@state.mn.us | 520 Lafayette Road North | St Paul | MN |
| Jeff | Risberg | Pollution Control Agency | Jeff.Risberg@state.mn.us | 520 Lafayette Road North | St Paul | MN |
| Judy | Sventek | Metropolitan Council | Judy.Sventek@metc.state.mn.us | 390 Robert Street North | St Paul | MN |
| Joe | Mulcahy | Metropolitan Council | joe.mulcahy@metc.state.mn.us | 390 Robert Street North | St Paul | MN |
| Jeff | Berg | State of Minnesota - Agriculture | Jeffrey.Berg@state.mn.us | 625 Robert Street North | St Paul | MN |
| John | Freitag | State of Minnesota - Health Dept | John.Freitag@state.mn.us | 625 Robert Street North | St Paul | MN |
| Karen | Voz | State of Minnesota - Health Dept | Karen.s.Voz@state.mn.us | 3333 W. Division St | St Cloud | MN |
| Jeanne | Daniels | Minnesota DNR | jeanne.daniels@state.mn.us | 1200 Warner Road | St Paul | MN |
| Taylor | Huinker | Minnesota DNR | taylor.huinker@state.mn.us | 1200 Warner Road | St Paul | MN |

Citizen Advisory Committee Contact List - Notification and Outreach

LMRWMO MN Water Stewards

Those who have indicated interest via online survey

Past 3 yrs LMRWMO Landscaping for Clean Water Participants

You're invited!

...to the Lower Mississippi River Watershed Management Organization (LMRWMO) Watershed Management Plan kickoff meeting. The LMRWMO is a public organization tasked with protecting and managing local water resources within portions of the Cities of Inver Grove Heights, Lilydale, Mendota Heights, St. Paul, South St. Paul, and West St. Paul. The LMRWMO Board of Managers is in the process of updating its Watershed Management Plan, which will guide LMRWMO activities for the next 10-years.

Consistent with Minnesota Rules 8410.0045, the LMRWMO Managers are hosting a virtual initial planning (public kickoff) meeting to receive, review, and discuss input on the Plan update. The meeting will be held virtually (via Zoom) at:

May 12, 2021

4:00-5:00 pm

Insert Link Here

Zoom Meeting ID: **XXXXXXXX** (Passcode: **XXXXXXXX**)

Call-in Number: **XXXXXXXX** (Passcode: **XXXXXXXX**)

At the kickoff meeting, the LMRWMO administrator and engineers will present information about the organization, the Plan update process, and the results of stakeholder engagement activities performed to date. The presentation will be followed by a discussion period during which attendees are encouraged to share their thoughts on water and natural resource management priorities.

A brief [online survey](#) is currently available to gather additional public input. Please consider attending the public kickoff meeting and sharing your thoughts with the LMRWMO Managers.

DATE : April 8, 2021

TO : Miranda Nichols
Water Assessment Section
Environmental Analysis and Outcomes Division

FROM : Jordan Donatell
South Watershed Section
Watershed Division

PHONE : (651) 757-2254

SUBJECT : Request to remove Sunfish Lake 19-0050-00 from the 303(d) Impaired Waters List

A delisting request was made by the Lower Mississippi River Watershed Management Organization to remove Sunfish Lake (19-0050-00) from the 303(d) Impaired Waters List as the basin is now meeting lake eutrophication standards. The basin was originally assessed as impaired for aquatic recreation use in 2009, first appearing on the 303(d) list in 2010.

Documentation of the original listing is described below:

From 2009 Assessment: "Lake is 87% littoral with a maximum depth of 32 feet. No profile data is available; however high TP values have been measured in April and October, indicating that lake likely stratifies during the summer months. For this reason, the lake will be held to the deep lake standards. TP, chl-a, and Secchi all exceed the deep lake nutrient standards; chl-a also exceeds the shallow lake standard."

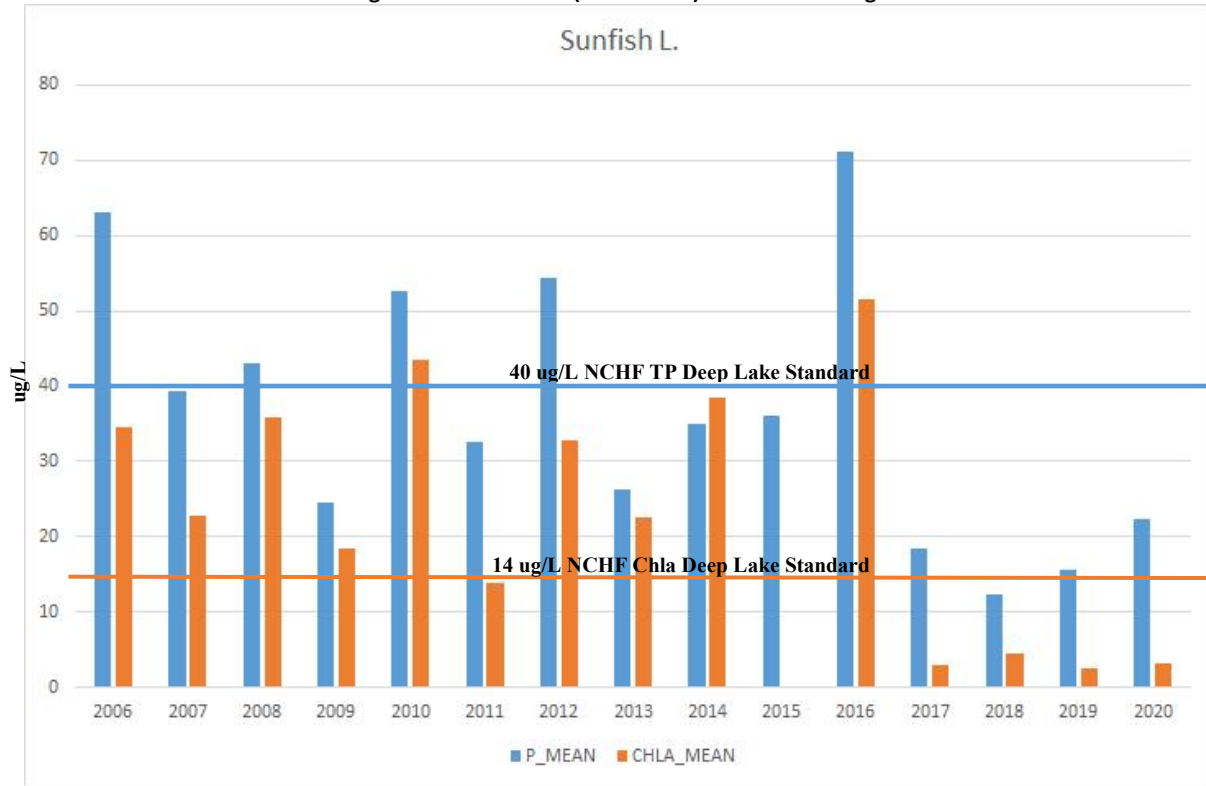
The original listing data compared to recent data is displayed in Table 1 including applicable criteria for reference.

Table 1. Lake Eutrophication Standards and Sunfish Lake Data

| Ecoregion | TP µg/L | Chl-a µg/L | Secchi meters |
|--|------------|---------------|------------------|
| NCHF – Trophic State Thresholds for impairment (pre-2010 cycle) | < 45 | < 18 | > 1.1 |
| Current NCHF – Aquatic Rec. Use (Class 2B) | <40 | < 14 | > 1.4 |
| 2006-2009 Sunfish Lake Data (Original Listing Dataset) | 48.8 | 31 | 1.3 |
| 2017-2020 Sunfish Lake Data | 17 | 3.1 | 3.5 |

Sunfish Lake data collected between 2017 and 2020 for all parameters easily meets North Central Hardwood Forest(NCHF) deep lake criteria. Total Phosphorus(P) and Chlorophyll-a(CHLA) data available since 2006 data are summarized annually below(Figure 1); colored lines indicate water quality standard (blue = 40 ug/L for P, orange = 14 ug/L CHLA).

Figure 1. Sunfish Lake(19-0050-00) data 2006 through 2020



In-lake management in the form of Aluminum Sulfate treatment occurred in the spring of 2017. An approval letter for that treatment is on file at MPCA. The small watershed of Sunfish Lake is not conducive for traditional large scale best management practices besides general shoreline buffer and turf management practices. Future maintenance treatment would be considered as necessary depending on funding for implementation work at that time. Water quality monitoring will continue through the local efforts.

The watershed assessment team recommends removing Sunfish Lake from the 303(d) impaired waters list as the eutrophication response is no longer present.