

Ivy Falls Creek,
Mendota Heights

2023 LMRWMO ACTIVITY REPORT



HEALTHY LAKES, STREAMS, AND RIVER
THROUGH PARTNERSHIPS, EDUCATION,
AND COORDINATED ACTION.

This report is prepared for the MN Board of Water and Soil Resources pursuant to MN Rules Chapter 8410, part 8410.0150, Subpart 3.

ABOUT US

The Lower Mississippi River Watershed Management Organization (LMRWMO) was established via a joint powers agreement executed on October 25, 1985. The LMRWMO is 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 confluence with the Minnesota River down to the southern end of Inver Grove Heights.

The LMRWMO covers 55.8 square miles (35,493 acres) and is composed of seven cities within the WMO boundaries. The LMRWMO Member Cities include: Inver Grove Heights, Lilydale, Mendota Heights, Saint Paul, South St. Paul, Sunfish Lake, and West St. Paul. A complete list of the Board of Managers, which consists of City Council appointed representatives from the member Cities, is attached to this report.

The Dakota County Soil and Water Conservation District (SWCD) serves as the Administrator for the LMRWMO, with Joe Barten as the staff Administrator contact since 2014.

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2023 ACTIVITY HIGHLIGHTS

GENERAL:

- Contracted with the Dakota County Soil and Water Conservation District (SWCD) to provide administrative, education, technical assistance, project management, water monitoring, and grant administration services, and to act as general staff and public liaison for the LMRWMO.
- Contracted with Ramsey County Soil & Water Conservation Division to provide technical assistance services for the LMRWMO in Ramsey County.
- Continued bi-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.
- Finalized the Watershed Management Plan update process with the consultant, Barr Engineering.
- Monitored lakes and streams within the LMRWMO for water quality parameters in coordination with the Metropolitan Council's Citizen Assisted Monitoring Program (CAMP) and numerous citizen volunteers.
- Performed a legal audit of LMRWMO finances and submitted to the State of Minnesota.
- Coordinated with local and state agencies on all matters related to LMRWMO duties.



EDUCATION:

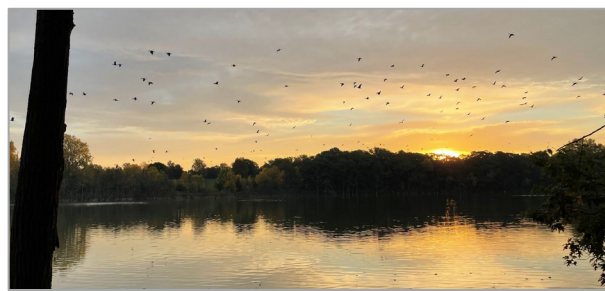
- Participated in and provided funding to the Metro Watershed Partners Clean Water MN program, a coalition of public, private and non-profit organizations in the Twin Cities metro area that promotes public understanding through collaborative educational outreach that inspires people to act to protect and improve their local water resources.
- Participated in the Adopt-A-Drain program through the Metro Watershed partnership. Within the LMRWMO, there were 344 total participants with 519 drains adopted and 57 new participants. Based on data submittals of participants, it is estimated that this produced a total of 1,315 lbs of leaf litter, sediment, trash, dirt, and debris collected.
- Provided welcome kits to Adopt-A-Drain participants for current and past years to thank them for their participation, allow them to advertise the AAD program with signage on their property, and promote other LMRWMO programs in which they may have interest in participating.



- 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.
- Updated the LMRWMO water monitoring factsheets and created new factsheets for additional LMRWMO waterbodies for public distribution.
- Created additional waterbody pages on the LMRWMO website for public information.
- Coordinated with Dakota County partners on a potential public video marketing campaign to promote the Landscaping for Clean Water program and promote general water conservation for lawn watering to address declining aquifer levels and water treatment concerns.
- Developed a new storm drain stenciling program with kits to be rented by public groups to connect their impact on the storm drain system to the downstream waterbodies. Kits will be ready for public use in early 2024.

STUDIES:

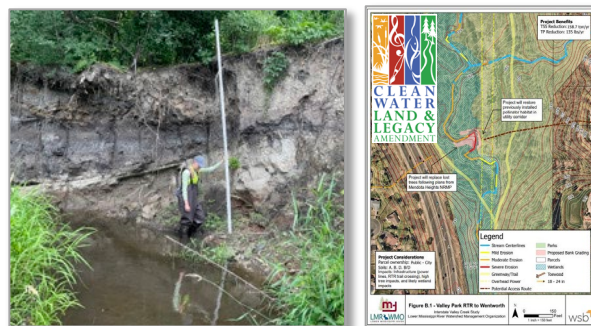
- The Lake Augusta Water Quality Improvement and Outlet Feasibility Study was finalized. The report notes high water levels as well as a large cormorant population contributing to poor water quality. Solutions are identified in the report for potential implementation. Further investigation of potential cormorant population solutions is required.
- Progressed on the scope of work for the FY-2021 WBIF study of direct drainage watersheds to the Mississippi River within the LMRWMO to create a comprehensive and ranked water quality improvement project list for future implementation.
- Finalized the FY-2023 Metro Watershed Based Funding grant workplan and agreement.



Cormorants on Lake Augusta at Dawn

PROJECTS:

- The LMRWMO partnered with the Dakota County SWCD, Mendota Heights, and Dakota County to apply for (and the SWCD was awarded) Clean Water Funds for projects identified in the Interstate Valley Creek Stabilization and Volume Reduction Feasibility study to identify the presence of severe bank erosion and opportunities to reduce the volume of stormwater reaching the stream.



Erosion at IVC and Study Project ID Page

- Established a cooperative joint powers agreement with the Cities of Inver Grove Heights and South St. Paul for the Seidls Lake shoreline restoration project to reduce erosion and provide vegetative habitat. Developed plans and specifications for the shoreline restoration project, to be implemented along with a trail project.



Seidls lake facing north, prior to the restoration work to occur in 2024 and 2025

- Participated in the Landscaping for Clean Water (LCW) workshop series and funded three classes in partnership with the Dakota SWCD. Through this program, 51 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 37 residents of the LMRWMO attending the LCW design workshops to create project project designs. The LMRWMO then provided \$250 grants for 12 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. The 2023 LCW Program fact sheet is attached to this report.
- Developed and provided a Natural Shoreline Workshop to residents of the LMRWMO (as well as adjacent Watersheds) in partnership with the Dakota County SWCD. This workshop showed residents the benefits of using natural materials and native plants to stabilize eroding shorelines. It also informed residents how a natural shoreline installed with native plants can protect a shoreline, beautify their property, and provide habitat for pollinators and aquatic animals. Attendees learned how to install such a project, what are necessary permits, and what technical assistance and grants exist to assist them. The WMO also provided direct mailings to residents of select waterbodies to garner interest. There were XX attendees at this inaugural event, which will be provided annually by the LMRWMO in partnership with the SWCD going forward.



2024 WORK PLAN

The LMRWMO plans to conduct the following activities in 2024:

- Finalize implementation of items identified in the FY-2021 Metro Watershed Based Implementation Funding grant which includes managing the consultant, WSB, in their study of direct drainages to the Mississippi River to identify and prioritize ravine erosion and stormwater best management practices.
- Begin implementation of FY-2023 Watershed Based Implementation Funding grant to perform modeling in priority lake sub-watersheds and identify stormwater best management practices.
- Organize the convene process for the FY-25 Watershed Based Implementation Funding grant and perhaps pursue development of a project along Butler Avenue to benefit Thompson Lake with the funds.
- Implement the Seidls Lake shoreline restoration project via a 2022 MnDNR Conservation Partners Legacy grant, in partnership with Inver Grove Heights and South St. Paul and in tandem with a trail restoration project.
- Assist in implementing the Interstate Valley Creek stormwater BMPs and streambank stabilizations.
- Continue to prioritize implementation of projects and programs, applying for grants, and assisting member cities in obtaining grants and identifying opportunities to partner on water quality projects through use of grant tracking program.
- 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 through the Dakota County SWCD's Landscaping for Clean Water program.
- Continue to monitor LMRWMO lakes and streams through the Met Council Citizen Assisted Monitoring Program (CAMP), including Lake Augusta, Sunfish Lake, Thompson Lake, Schmitt Lake, Dickman Lake, Seidls Lake, Simley Lake, Lily Lake, Interstate Valley Creek, and Ivy Falls Creek in partnership with community volunteers and Dakota county SWCD staff.
- Engage with residents through the storm drain stenciling program.
- Assist LMRWMO Water Stewards in engaging with the public and informing them of LMRWMO programs at community events with the provision of new banners and tabling materials.

IMPLEMENTATION ITEM REVIEW

Below is The LMRWMO's 2023-2033 Watershed Management 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.

Key for Implementation Tables 1, 2, and 3.

Implementation item is complete or ongoing.	Implementation item is partially complete or in progress.	Implementation item requires action by the LMRWMO.
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TABLE 1 - STUDIES			
Implementation Activity	Priority Level	Time-frame	Status and Accomplishments
Mississippi River Direct Drainage Stormwater Management	High	2024-2025	In progress with consultant performing work. Included in FY-21 WBIF Project scope
LMRWMO Outfall Monitoring Feasibility Study	High	2027	Planned for future implementation.
Thompson Lake Subwatershed Assessment	High	2024-2025	Included partly in FY-23 WBIF project scope
Interstate Valley Creek Erosion and Watershed Study	High	2023	Complete
Ivy Falls Creek Erosion and Watershed Study	High	2025	Planned for future implementation.
Watershed Wide Hydrologic and Hydraulic Model	Med	2030	Planned for future implementation.
Watershed Wide Water Quality Model	Med	2030	Planned for future implementation.
LMRWMO Stream/Creek Monitoring Feasibility Study	Med	2027	Planned for future implementation.
Ivy Falls Creek Waste Dump Assessment	Med	2031	Planned for future implementation.
Rogers Lake Subwatershed Assessment	Med	2026	Planned for future implementation.
Kaposia Creek Daylighting (Open Channel Restoration) Study	Low	2030	Planned for future implementation.
Dodd Road Study	Low	2030	Planned for future implementation.

TABLE 2 - PROJECTS			
Implementation Activity	Priority Level	Time-frame	Status and Accomplishments
Implement small scale stormwater BMPs	High	2024-2033	Ongoing annual participation in the Landscaping for Clean Water program.
Mississippi River Direct Drainage Stormwater Projects	High	2031	Planned for future implementation.
Implement stabilization projects along Interstate Valley Creek	High	2024-2025	Partnering with Mendota Heights and Dakota County to install six stream stabilization and stormwater BMP projects along IVC via CWF grant.
Implement stabilization projects along Ivy Falls Creek	High	2028	Planned for future implementation.
Implement stormwater mgmt.. and/or shoreline improvement projects at Lake Augusta	High	2026	Planned for future implementation.
Thompson Lake Watershed BMPs	High	2025	In preliminary coordination with County and City partners to implement BMPs along Butler Ave. to benefit Thompson Lake.
Seidls Lake Improvements	High	2024-2025	Received a CPL grant for shoreline restoration project around Seidls Lake.
Implement targeted medium to large scale stormwater BMPs	Med	2028	Planned for future implementation.
Stormwater BMPs implemented with City street reconstruction projects	Med	Varies	Have partnered on Butler Ave BMPs, open to future opportunities as they arise.
Kaposia Creek Daylighting (Open Channel Restoration)	Med	2032	Planned for future implementation.
Rogers Lake Watershed BMPs	Med	2031	Planned for future implementation.
Regional Volume Reduction Project Implementation	Med	2032	Planned for future implementation.

TABLE 3 - EDUCATION, MONITORING, TECHNICAL ASSISTANCE, ADMINISTRATION

Implementation Activity	Priority Level	Time-frame	Status and Accomplishments
Maintain Website	High	2024-2033	Ongoing.
Prepare and distribute (twice annually) an electronic newsletter	High	2024-2033	Ongoing. E-Newsletter first sent in Spring of 2024.
Coordinate with member cities to develop and distribute educational information	High	2024-2033	Ongoing.
Workshops for stewardship and stormwater management practices	High	2024-2033	Ongoing.
Coordination with Dakota SWCD, Ramsey SWC Division, and member cities for K-12 programming	Med	2027	Planned for future implementation.
Stormwater stenciling/signage program	Med	2024-2033	Ongoing. Program implemented in Spring of 2024.
Engage residents through attendance at public events	Med	2024-2033	Ongoing. WMO will provide materials for educational opportunities to partners as requested.
Provide multi-lingual education and outreach material and/or training	Med	2029	Planned for future implementation.
Provide chloride reduction training and/or educational materials	Med	2028	Planned for future implementation.
Coordinate with partners to identify and support volunteer efforts	Med	2024-2033	Ongoing.
Educational support of LMRWMO Board	Med	2024-2033	Ongoing.
Tour of LMRWMO Projects and Resources	Med	2024-2033	Ongoing.

Public Educational Materials	Med	2024-2033	Ongoing.
Monitoring of Priority Lakes through Citizen Assisted Monitoring Program	High	2024-2033	Ongoing.
Review and update LMRWMO monitoring program	High	2026	Planned for future implementation.
Monitoring reports	High	2024-2033	Ongoing.
Monitoring of Interstate Valley Creek	Med	2024-2033	Ongoing.
Monitoring of Ivy Falls Creek	Med	2024-2033	Ongoing.
Monitoring of Kaposia Creek	Med	2031	Planned for future implementation.
Monitoring of outfalls to the Mississippi River	Med	2025	Planned for future implementation.
General Engineering and Technical Assistance	High	2024-2033	Ongoing.
Opportunity Project/Study Engineering and Assistance	High	2024-2033	Ongoing.
Review of Local Water Management Plans (LWMPs)	High	2024-2033	Ongoing.
LMRWMO Watershed Management Plan update	High	2024-2033	Ongoing.
General Administration	High	2024-2033	Ongoing.
Legal, audit, and insurance	High	2024-2033	Ongoing.

Annual Report to BWSR	High	2024-2033	Ongoing.
Biennial progress review	High	2025	Planned for future implementation.
LMRWMO Member City TAC Meeting	High	2025	Planned for future implementation.
Review and revise Joint Powers Agreement (JPA)	High	2033	Planned for future implementation.
Grant review and application	Med	2024-2033	Ongoing.
Review organizational capacity, funding mechanisms, and member city dues, implementation items and costs	Med	2026	Planned for future implementation.
Groundwater planning and coordination	Med	2024-2033	Ongoing.

2023 Water Monitoring

The LMRWMO Watershed Management Plan identifies the need to evaluate and track water quality trends through monitoring of DNR protected water bodies within the WMO. Monitoring efforts since 2011 have focused on lakes larger than 10 acres and on water bodies identified by the member Cities to be of interest. Lakes could be considered of interest because the LMRWMO has identified them as priority waterbodies, has implemented recent projects to improve lake water quality, or has plans to implement projects in the future. Monitoring data can then help identify water quality improvements over the long term or establish baseline conditions for future improvements. The LMRWMO has conducted or supported monitoring of multiple lakes and streams within the LMRWMO for eutrophication parameters, e.Coli, and chloride.



The LMRWMO Board prioritizes monitoring annually and typically selects waterbodies to track progress where water quality projects have been implemented. Six lakes and two streams within the LMRWMO were monitored through the Metropolitan Council's Citizen Assisted Monitoring Program (CAMP) in 2023. Monitoring data, once available from the Metropolitan Council, is posted on the LMRWMO website.

The attached monitoring summary table shows the lakes historically monitored by the LMRWMO and Member Cities, primarily through the Metropolitan Council's Citizen Assisted Monitoring Program (CAMP) with volunteer coordination, data analysis processing, and Met. Council coordination provided by the Dakota County SWCD

through the annual agreement for services. Some Lakes listed on the attached table are monitored through the same program but with the City as the sponsor and volunteer coordinator.

ADMINISTRATIVE ITEMS

LOCAL PLAN ADOPTION STATUS

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. The below table shows the compliance dates of the local plans for municipalities withing the LMRWMO boundary. 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.

Local Water Management Plan Status

Member City	LMRWMO Approval Date for conformance with 2001 Watershed Plan	LMRWMO Approval Date for Conformance with 2011 Watershed Plan	LMRWMO Approval Date for Conformance with 2023 Watershed Plan
Inver Grove Heights	June 2008	December 2018	Not yet updated
Lilydale	March 2008	October 2018	Not yet updated
Mendota	None	June 2023	Not yet updated
Mendota Heights	February 2006	July 2018	Not yet updated
South St. Paul	January 2005	December 2018	Not yet updated
St. Paul	September 2006	June 2018	Not yet updated
Sunfish Lake	February 2009	November 2018	Not yet updated
West St. Paul	September 2006	December 2018	Not yet updated

PERMITS & 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

As required, every two years solicitations are made to retain legal, auditor, and engineering consulting services. In 2023, the LMRWMO Board retained services from the following consultants:

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

FINANCES & AUDIT

The LMRWMO maintained two checking accounts and a savings account. As of April, 2024, a financial audit was nearly completed performed covering the 2023 finances. The 2023 LMRWMO financial audit will be submitted to BWSR when completed and per state submittal requirements.

WETLAND BANKING

The LMRWMO does not have a wetland banking program.

ATTACHMENTS

- 2023 Board of Managers Contact List
- 2023 Landscaping for Clean Water Summary
- 2023 Water Monitoring Table
- 2023 Adopted Budget
- 2023 Annual Newsletter

LMRWMO Board Members

Updated 12-31-24

Incumbent	Position	City	Term Start Date
Sharon Lencowski (Member)	Member	Inver Grove Heights City Council	8/1/2013
Dawn Gaetke (Alternate)	Alternate Member	Inver Grove Heights City Council	5/9/2022
Tom Sutton (Member)	Member	Lilydale City Council	1/31/2017
Mary Kleinberg (Alternate)	Alternate Member	Lilydale City Council	1/9/2023
Steve Gebauer (Member)	Member	Mendota Heights City Council	5/1/2023
Leslie Pilgrim (Alternate)	Alternate Member	Mendota Heights City Council	5/1/2023
Karen Reid (Member)	Member	Saint Paul City Council	5/3/2017
Brian Jastram (Alternate)	Alternate Member	Saint Paul City Council	12/21/2023
Michael Randle (Member)	Member	South St. Paul City Council	3/2/2021
Daniel Anderson (Alternate)	Alternate Member	South St. Paul City Council	2/22/2022
Dan Halvorsen (Member)	Member	Sunfish Lake City Council	6/1/2021
Shannon Nelson (Alternate)	Alternate Member	Sunfish Lake City Council	9/7/2021
Analiese Miller (Member)	Member	West St. Paul City Council	8/28/2023
Julie Eastman (Alternate)	Alternate Member	West St. Paul City Council	1/11/2021

2023

LANDSCAPING FOR CLEAN WATER PROGRAM SUMMARY

Providing landowners with the skills and resources needed to protect local water quality and provide habitat for pollinators through the installation of beautiful raingardens, native gardens, and native shoreline plantings.

LANDSCAPING FOR CLEAN WATER



2023 BY THE NUMBERS

252	INDIVIDUALS PARTICIPATED IN INTRODUCTION CLASSES
158	PROJECTS DESIGNED THROUGH THE DESIGN COURSE
61	RAINGARDENS & NATIVE GARDENS & SHORELINES INSTALLED
20	PEOPLE RECEIVED ONE-ON-ONE ASSISTANCE VIA ZOOM
17	INDIVIDUALS PARTICIPATED IN THE MAINTENANCE WORKSHOP
29	INDIVIDUALS ATTENDED THE NEW NATURAL SHORELINE WORKSHOP



"The Intro class opened my eyes to so many possibilities. I left excited to take the next step with a planting at my house!"

"Thank you Dakota SWCD for a wonderful program. I appreciate the support and guidance. Can't wait to do another project next year!"

2023 LCW Participants



The Landscaping for Clean Water program - Introduction class, Design course, Maintenance workshop and Natural Shoreline workshop - was offered *in-person* and *virtually* in 2023.

2023 FINANCIAL CONTRIBUTORS



2023

LANDSCAPING FOR CLEAN WATER PROGRAM SUMMARY

Thank you to everyone who helped to reduce pollution, improve water quality, and increase pollinator habitat on your property this year! Participation at any level - attending the Introduction to Clean Water Class, installing a project with the Design Course, picking up tips at the Maintenance Workshop, or learned how native plantings along a shoreline benefit both terrestrial and aquatic habitat - helps to spread interest and know-how to all corners of Dakota County.

Summary of the 2023 participants by City

Apple Valley

Introduction class attendees	29
Projects designed	27
Installed raingardens	4
Installed native gardens	7
Installed shoreline planting	2

Burnsville

Introduction class attendees	54
Projects designed	28
Installed raingardens	10
Installed native gardens	6

Eagan

Introduction class attendees	38
Projects designed	20
Installed raingardens	6
Installed native gardens	2

Farmington

Introduction class attendees	7
Projects designed	2

Hastings

Introduction class attendees	1
Projects designed	3
Installed raingardens	1

Inver Grove Heights

Introduction class attendees	21
Projects designed	14
Installed raingardens	2
Installed native gardens	3

Lakeville

Introduction class attendees	27
Projects designed	14
Installed raingardens	1
Installed native gardens	3

Mendota Heights

Introduction class attendees	6
Projects designed	10
Installed raingardens	1
Installed native gardens	1

Rosemount

Introduction class attendees	34
Projects designed	20
Installed raingardens	5

South Saint Paul

Introduction class attendees	12
Projects designed	8
Installed native gardens	2

Sunfish Lake

Introduction class attendees	1
Projects designed	1
Installed shoreline planting	1

West Saint Paul

Introduction class attendees	8
Projects designed	5
Installed raingardens	1
Installed native gardens	2

Non-Dakota County Introduction Participant Cities

Anoka, Columbia Heights, Minneapolis,
Rochester, Savage, and Shakopee



2023 PARTNERS

Cities

- Apple Valley
- Burnsville
- Eagan
- Lakeville
- Rosemount
- South St Paul

Dakota County

Ramsey County



SEVENTEEN YEARS OF CLEAN WATER ACCOMPLISHMENTS

Program Participants
2007-2023 **5,743**

Projects Completed
2007-2023 **766**

2023 Landscaping for Clean Water Project Summary

2023 Landscaping for Clean Water Projects

Project ID	First	Last	City	Practice	Sq ft	Cost Est.
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Lower Mississippi River WMO

Total Available WS LCW Partner Funding	\$15,000
Landowner incentives	\$5,000
Technical Assistance	\$10,000

Grants Available	16
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Completed Projects	11
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Round 1

1	23-IGH-041	Stephanie	Boehmer	Inver Grove Heights	Raingarden	225	878.00
2	23-WSP-047	Liz	Deziel	West St Paul	Native Garden	100	314.00
3	23-SSP-048	Amanda	Dobbratz	South St Paul	Native Garden	310	714.00
4	23-MDH-060	Heidi	McEllistrem	Mendota Heights	Raingarden	150	444.00
5	23-IGH-062	Jeff	Parsons	Inver Grove Heights	Raingarden	270	587.00

Round 2

6	23-SUN-095	John	Oakman	Sunfish Lake	Shoreline	400	910.00
7	23-MDH-082	Sylvia & Stella	Cuellar	Mendota Heights	Native Garden	108	558.00
8	23-WSP-086	Amy	Kirchner	West St Paul	Native Garden	400	456.00
9	23-SSP-089	Leah	Peitso	South St Paul	Native Garden	100	470.00
10	23-IGH-090	Andrea	Poppinga	Inver Grove heights	Native Garden	120	466.00

Round 3

11	23-WSP-117	Sherry	Huang	West Saint Paul	Raingarden	260	1,136.00
						2,443	\$6,933.00

Total Projects
11

Avg. sf of Proj.
222

Average Cost
\$630

Project Type	Number
Raingarden	4
Native Garden	6
Shoreline	1

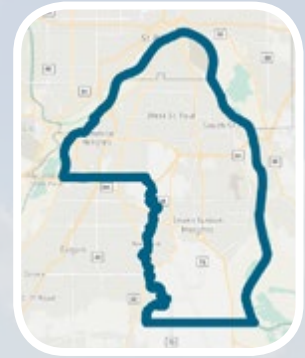
City	Raingarden	Native Garden	Shoreline
Inver Grove Heights	2	1	0
Mendota Heights	1	1	0
South St Paul	0	2	0
Sunfish Lake	0	0	1
West St Paul	1	2	0

Waterbody	DNR ID	Area (Acres)	Waterbody Location	MPCA Waterbody Type	Public Access?	Impairments	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Long Term Monitoring Notes:	Frequency	
Monitoring Goal: Tracking Trends or Changes in Water Quality (Monitor Frequently)																	5 year Monitoring Plan							
Mississippi River					Public	Nutrients/Eutrophication biological indicators																None planned.		
Lake Augusta	19-0081	33	Mendota Heights	Lake (deep or shallow)	Private - no access	Nutrients/Eutrophication biological indicators		(CITY CAMP)			WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	Continue WMO CAMP monitoring.	14 Events	
Thompson Lake	19-0048	7	West St. Paul	Shallow Lake	Public - dock access	Nutrients/Eutrophication bio. indicators, Chloride	(MPCA WRAP)				WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	Continue WMO CAMP	7 Events	
Seidl's Lake	19-0095	7	South St. Paul/Inver Grove Heights	Shallow Lake	Public - dock access		(CITY CAMP)	(CITY CAMP)	(CITY CAMP)			WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	Continue WMO CAMP monitoring.	7 Events	
Rogers Lake	19-0080	107	Mendota Heights	Shallow Lake	Public - dock access		(MPCA WRAP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	Monitoring expected to continue through City		
Sunfish Lake	19-0050	45	Sunfish Lake	Deep Lake	Private - no access	Delisted in 2022	(MPCA WRAP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	Monitoring expected to continue through City		
Hornbean Lake	19-0047	22	Sunfish Lake/Inver Grove Heights	Shallow Lake	Private - no access		(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	Monitoring expected to continue through City		
Horseshoe Lake	19-0051	14	Sunfish Lake/Inver Grove Heights	Shallow Lake	Private - no access		(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)		(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	Monitoring expected to continue through City		
Simley Lake	19-0037	11	Inver Grove Heights	Shallow Lake	Public - dock access		(WMO)	(WMO)												WMO (CAMP)	WMO (CAMP)	Monitor for 5 years to re-establish baseline.		
Lemay Lake	19-0082	25	Mendota Heights	Shallow Lake	Private - no access			(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	(CITY CAMP)	Monitoring expected to continue through City		
Interstate Valley Creek			Mendota Heights	Stream	N/A	Ecoli						WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	Continue monitoring with willing volunteer.	7 Events		
Ivy Falls Creek			Mendota Heights	Stream	N/A										WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	Continue monitoring with willing volunteer.	7 Events		
Kaposia Creek			South St. Paul	Stream	N/A																			

Monitoring Goal: Establishing Baseline Conditions (Monitor Infrequently)																							
Pickereel Lake	19-0079	107	Lilydale/St. Paul	Shallow Lake	Public - boat landing	Mercury in fish tissue	(MPCA WRAP)			WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)							Monitor for 5 years to re-establish baseline in 2027.	7 Events
Ohmans Lake (Marcott Chain)	19-0042	22	Inver Grove Heights	Deep Lake	Private - no access		(WMO)	(WMO)											WMO (CAMP)	WMO (CAMP)	Monitor for 5 years to re-establish baseline.	7 Events	
Rosenberger Lake (Marcott chain)	19-0041	20	Inver Grove Heights	Deep Lake	Private - no access		(WMO)	(WMO)											WMO (CAMP)	WMO (CAMP)	Monitor for 5 years to re-establish baseline.		7 Events
Dickman Lake	19-0046	24	Inver Grove Heights	Shallow Lake	Private - no access									WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	Monitor for 5 years to re-establish baseline.	7 Events		
Schmitt Lake	19-0052	61	Inver Grove Heights	Shallow Lake	Private - no access									WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	WMO (CAMP)	Monitor for 5 years to re-establish baseline.		7 Events	
Anderson Pond	19-0094	3	South St. Paul	(Wetland or shallow lake)	Public - no access		(CITY CAMP)	(CITY CAMP)	(CITY CAMP)												Monitor for 5 years to re-establish baseline in 2027.		7 Events
LeVander Pond	19-0088	3	South St. Paul	(Wetland or shallow lake)	Private - no access		(CITY CAMP)	(CITY CAMP)	(CITY CAMP)												Monitor for 5 years to re-establish baseline in 2027.	7 Events	
Bohrer Pond	19-0034	14	South St. Paul/Inver Grove Heights	Lake (possibly deep or shallow)	Public - no access																Monitor for 5 years to re-establish baseline in 2027.		

LMRWMO Approved 2023 Budget

ESTIMATED REVENUES AND ASSETS		2023 Budget
Dues from Members		\$127,300
Interest		\$600
Other/Grant Match		\$0
LMCIT Rebate		\$250
TOTAL		\$128,150
ESTIMATED EXPENSES AND LIABILITIES		2023 Budget
Engineering/Technical Assistance		
Technical Assistance		\$5,500
Meetings		\$6,500
Plan Reviews		\$0
Pine Bend Ravine Study		\$5,000
Watershed Plan Amendment		\$6,500
Subtotal		\$23,500
Project Implementation		
Plan Implementation		\$5,400
FY-19 WBIF Matching Funds		\$0
FY-21 WBIF Matching Funds		\$9,300
Landscaping for Clean Water Projects		\$12,000
Water Monitoring		\$12,200
Subtotal		\$38,900
Education		
Landscaping for Clean Water Classes		\$10,800
MN Water Stewards		\$10,000
Storm Drain Stenciling Program		\$4,500
Stormwater Signage Program		\$0
WMO Tabling Materials		\$500
General Education Requests & Board Tour		\$5,400
Metro Watershed Partners Membership		\$1,000
Website Maintenance and Updates		\$2,800
Board Education		\$200
Subtotal		\$35,200
Administration		
General Administration		\$34,400
Insurance		\$2,500
Attorney and Audit		\$5,500
Subtotal		\$42,400
Cumulative Set Aside for 4th Gen Plan and Grants		\$15,000
TOTAL		\$140,000
40% Goal of Unencumbered Fund Balance		\$56,000
Year End Fund Balance (Estimated)		\$90,138
Unencumbered Year End Fund Balance		\$75,138



2023 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.*

INTERSTATE VALLEY CREEK EROSION & STORMWATER VOLUME REDUCTION STUDY

The LMRWMO was awarded \$48,000 in grant funds for the Interstate Valley Creek Stabilization and Volume Reduction Feasibility study. The City of Mendota Heights also provided \$25,000 in matching funds for the study. This will identify areas and severity of streambank erosion, methods for streambank protection, and opportunities to reduce the flow of stormwater to IVC.

Interstate Valley Creek runs from Friendly Hills Marsh in Mendota Heights north along I-35-E to the Mississippi River. There are two tributaries, Marie and Wentworth Creeks, that feed into the mainstem of IVC. Severe erosion was identified which required prioritization of eroded areas and identification of stormwater volume reduction projects.

This first involved computer-based assessment of the watershed of IVC, which extends into Sunfish Lake and West St. Paul.

All the stream reaches were then walked, assessed, and catalogued based on amounts of erosion. Additionally, 2-D-modeling was performed throughout the stream channel to gauge erosion intensity during rainfalls. A final report which prioritizes areas to be stabilized based on their cost/benefit,



Severe erosion areas along Interstate Valley Creek

outlines stabilization methods (rock, vegetation, re-grading, etc.), and identifies stormwater volume reduction opportunities, is complete.

This study will next be used to seek grant funding for stabilization measures in partnerships with the City of Mendota Heights and Dakota County, who are planning a trail reconstruction project within the same corridor.

Funding for this study is provided by the Board of Water and Soil Resources (BWSR) via the State Clean Water Fund and Metro Watershed Based Implementation Funding (WBIF) grant program.

BECOME A CITIZEN WATER QUALITY MONITOR!

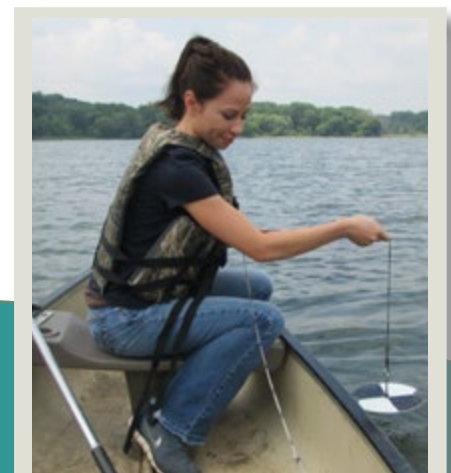
Help us gather the vital data to inform our lake and stream management decisions and ensure the lasting health of the LMRWMO waterbodies.

Monitoring 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) 480-7784

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 \$250 GRANTS

ONLINE AND IN PERSON DESIGN COURSES 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 online Introduction Class and both online and in person Design Classes give you the tools and knowledge to transform your yard for the better. Register today to get access to the in-person classes, online materials, and online one-on-one office hours for personal and professional design assistance for your native gardens, raingardens, or native shoreline 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 Introduction Class you can sign up for a \$25 online design workshop being offered now! Register online or call for more information: (651) 480-7777 or visit: www.dakotaswcd.org

NEW WEBSITE

The LMRWMO website has a new look! Check out the new and improved site that includes information on studies and projects implemented by the WMO, as well as educational information and data on lake water quality: www.LMRWMO.org

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 storm-water 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 for more information: www.LMRWMO.org

DID YOU KNOW?

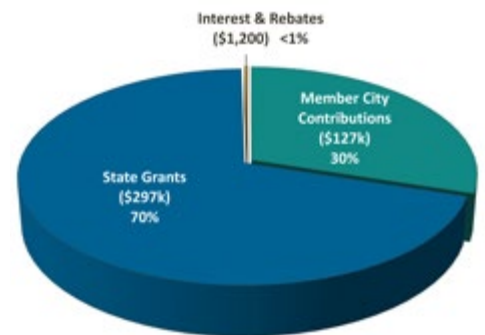
The LMRWMO Board is made up of citizen appointees who set the budget and direction of the organization. Contact us to fill a Board vacancy for the City of Saint Paul if you live on the West Side.

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

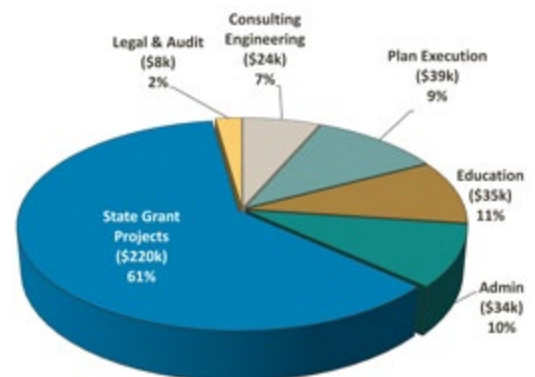
2023 BUDGET

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.

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
 Karen Reid (Vice Chair) - Saint Paul
 Mary Jeanne Schneeman (Sec/Tres) - Mendota Heights
 Jill Smith (Alternate) - Mendota Heights
 Dawn Gaetke (Alternate) - Inver Grove Heights

Tom Sutton (Member) - Lilydale
 Lyle Hanzal (Alternate) - Lilydale
 Michael Randle (Member) - South St. Paul
 Daniel Anderson (Alternate) - South St. Paul
 Dan Halvorsen (Member) - Sunfish Lake

Shannon Nelson (Alternate) - Sunfish Lake
 Sheila Vanney (Member) - West St. Paul
 Julie Eastman (Member) - West St. Paul

Staff Contact - Joe Barten (651) 480-7784