



LMRWMO

LOWER MISSISSIPPI RIVER WATERSHED MANAGEMENT ORGANIZATION

2018 ANNUAL ACTIVITY REPORT

This annual activity report by the Lower Mississippi River Watershed Management Organization (LMRWMO) is for activities performed during calendar year 2018 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 organization's 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 12-31-18, 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 is attached.

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

2018 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 2018 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.
- Reviewed the seven LMRWMO member City local water plans for conformance with the LMRWMO Watershed Management Plan.
- Submitted a FY 2020-2021 Biennial Budget Request for projects identified for implementation.
- 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 implementation of projects.

Education:

- Participated in the Freshwater Society's Master Water Stewards program. Two community members were sponsored to participate in the program to become Lower Mississippi River WMO Master Water Stewards. These volunteers will complete over a hundred hours of coursework in 2018 and 2019, complete a capstone project in coordination with the LMRWMO and then provide ongoing annual volunteer and community outreach services for the LMRWMO.
- 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 take action to protect and improve their local water resources.
- 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 website to add information on water monitoring efforts by the LMRWMO. 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.
- Organized a Mississippi River educational boat tour and presentations for LMRWMO Board members, City contacts, and other stakeholders.

Projects:

- Implemented 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 began in November 2018 and will be finalized in the spring of 2019. The LMRWMO coordinated the investigation of additional areas for stabilization within the project area with the project partners and BWSR. Additional stabilization will be undertaken and completed in 2019.
- Implemented the FY-2016 Clean Water Fund Grant for aluminum sulfate treatments on Sunfish Lake and Lake Augusta in coordination with numerous citizen, city, and county project partners. The majority of the work was completed in 2017 with the alum application done on both lakes. The LMRWMO contracted with the Friends of the Mississippi River (FMR) for the rainbarrel educational and outreach program to Sunfish Lake Residents with one event held in 2017 and follow by FMR in 2018. The LMRWMO modified the grant work plan in 2018 to allow for additional investigation of the Lake Augusta shoreline and lake stormwater inlets to identify opportunities for future BMPs or improvements.
- Implemented FY-2016 Clean Water Fund Grant for Thompson Lake stormwater improvements in coordination with Dakota County and City of West St. Paul. Construction began in October of 2018 and will progress through June 2019. Phase 1, removal of the PAH contaminated sediment in the lake bottom, is complete. Phase 2, installation of the stormwater management aspects, is underway.
- Coordinated with the City of South St. Paul on the installation of an underground storage and infiltration pipe gallery and tree trenches project at Seidls Lake. This project was the result of a 2017 Metropolitan Council stormwater management grant obtained by the LMRWMO in partnership with the City of South St. Paul.
- Assisted Ramsey Conservation District, City of Saint Paul, and BWSR staff in development and implementation of the Lilydale Regional Park Brickyard Area - North Knob stabilization project. This project is utilizing BWSR Disaster Recovery and Assistance Program (DRAP). This project will reduce erosion through a steep and severely eroded ravine and bluff.
- Participated in the Landscaping for Clean Water (LCW) workshop series and funded three classes in partnership with the Dakota SWCD. Through this program 47 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 38 residents of the LMRWMO attending the LCW design workshops to create project 38 project designs. The LMRWMO then provided \$250 grants for 18 residential conservation projects to be installed by those participants. The LMRWMO also provided funding for technical assistance to be provided by the Dakota SWCD for those watershed residents. See www.dakotaswcd.org/gis_app.html for locations and descriptions of completed projects.
- Coordinated with Dakota County and Ramsey County watershed organizations to create plans for the Metro Watershed Based Funding (WBF) program. Reviewed and prioritized implementation items in the LMRWMO Watershed Management Plan for inclusion in the WBF program.
- Evaluated monitoring needs for LMRWMO waterbodies and recruited citizen volunteers to monitor multiple lakes in the LMRWMO through the Metropolitan Council's Citizen Assisted Monitoring Program

and wetlands through the Dakota County Wetland Health Evaluation Program. (See 2018 Lake monitoring and Wetland Health monitoring results on page 13.

- Received a grant for Conservation Corps crew labor for work in Lilydale Park in coordination with the City of Saint Paul.

2019 Work Plan

The LMRWMO Board plans to conduct the following activities in 2019:

- Review and prioritize the education based items identified in the LMRWMO Watershed Management Plan and create a three-year education plan for implementation.
- Continue to work with the Ramsey Conservation District, City of Saint Paul, and BWSR staff on development and construction of the Lilydale Park Brickyard Area - North Knob stabilization project.
- Finalize implementation of the FY-2016 Sunfish Lake and Lake Augusta aluminum sulfate treatment grant.
- Continue implementation of the FY-2016 Thompson Lake stormwater improvements grant, including finalizing construction, a park re-opening event, and a watershed resident rainbarrel program.
- Continue implementation of the FY-2018 Cherokee Heights stormwater improvements and ravine stabilization grant including finalizing construction and a watershed resident rainbarrel program.
- Implement a watershed-wide storm drain stenciling program with educational toolkits for use by WMO residents.
- Sponsor two participants in the Master Water Steward program 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.
- 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 and grants to LMRWMO residents through participation in the Landscaping for Clean Water education program and evaluate new educational opportunities as they arise.
- Continue cost sharing the installation of residential raingardens and other stormwater management projects through the Dakota County SWCD's Landscaping for Clean Water program.
- Continue to monitor lakes through the Met Council Citizen Assisted Monitoring Program (CAMP), including Pickerel Lake, Lake Augusta, Sunfish Lake, Thompson Lake, and Seidls Lake.

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.
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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	Pending	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. Have applied for and received funding through 2016 Met Council stormwater program for sediment reduction improvements.	Implement sediment reduction grant with city of Lilydale.
Local government to construct Seidl's Pond/Lake lift station.	2016	Unknown	Feasibility study was completed in 2004. Applied and turned down for Clean Water Fund grant in 2014. Applied for a 2017 grant and received funds for water quality project at Seidl's Lake.	City is applying for state bonding funds for lift station.
Local government to construct Dawn Way Storm Sewer Improvement Project	2019	2019 to 2020	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. Implement portions of project already awarded funding.
Phosphorus treatment in Sunfish Lake	2017	2017 to 2019	Part of the 2014 WRAPS Study. Awarded FY2016 CWF grant dollars for implementation.	Implement Clean Water Fund grant work plan.
Thompson Lake Stormwater/Sediment Improvement Project	2016	2017 to 2019	Separate Thompson Lake PAH contamination feasibility study completed in 2014. Part of the 2014 WRAPS Study. Awarded FY2016 CWF grant dollars for implementation.	Implement Clean Water Fund grant work plan.
Phosphorus treatment in Augusta Lake	2016	2017 to 2019	Part of the 2014 WRAPS Study. Awarded FY2016 CWF grant dollars for implementation.	Implement Clean Water Fund grant work plan.

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.	Implement Clean Water Fund grant work plan.
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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 available to residents through yearly Landscaping for Clean Water classes. Watershed education provided through WRAPS citizen engagement process. In 2012 the WMO funded development and fabrication of educational sign describing Seidl's Lake bio-infiltration cell with examples of waters quality BMPs for homeowners. Educational signs provided yearly for Landscaping for Clean Water projects funded by LMRWMO. Provide yearly support for the Metro Watershed Partners education efforts. Watershed education provided through FY16 CWF grant efforts in 2016-2018.	Continue support and funding of Landscaping for Clean Water program to install raingardens, Native Gardens, and Native Shorelines. Continue to support Watershed Partners education efforts. Engage residents in upcoming FY16 CWF grant education efforts.

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 Landscaping for Clean Water Program (formerly Blue Thumb program)	Every year	Every year	Provide yearly introduction and design courses to LMRWMO residents and have provided grants for 68 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	The LMRWMO implemented a lake monitoring program in 2012. Outfall monitoring has not been pursued.	None planned at this time.
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. Annual evaluation of water monitoring is performed by the Board.	Ongoing. Will continue annual evaluation and prioritization of waterbodies for water monitoring. Consider adding outfalls to monitoring schedule.
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.
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.
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 or appropriate.	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 2020	Some stabilization improvements have been completed.	Included in Metro WBF work plan, feasibility study planned for 2019-2020.
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	-	No activity to report.	None planned at this time.
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. There is no legal description of boundary in JPA. BWSR now allows GIS boundary to serve as legal boundary.	None planned at this time.
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	Studies performed by the City of St. Paul for Lilydale park erosion issues.	None planned at this time. Could consider additional study at Ivy Creek.

2018 Lake Monitoring Data

The LMRWMO has conducted or supported monitoring numerous lakes within the watershed. Eight lakes within the LMRWMO were monitored through the Metropolitan Council's Citizen Assisted Monitoring Program (CAMP) in 2018 with the results show in Table 4. Additionally, the LMRWMO annually creates more detailed monitoring factsheets on select lakes which can be found on the [LMRWMO monitoring web page](#).

Table 4. Results of 2018 CAMP Monitoring in LMRWMO

Lake	City	Number of sampling events	Secchi Depth (m) average	Chlorophyll- <i>a</i> (µg/l) average	Total Phosphorus (µg/l) average
Water Quality Standard – Deep Lake			1	14	40
Lake Augusta	Mendota Heights	6	0.34	158.33	113
Sunfish Lake	Sunfish Lake	7	2.85	3.65	12
Water Quality Standard – Shallow Lake			1	20	60
Hornbeam Lake	Sunfish Lake/ Inver Grove Heights	7	2.63	5.85	24.25
Horseshoe Lake	Sunfish Lake/ Inver Grove Heights	6	3.3	8.15	29.75
Lemay Lake	Mendota Heights	8	1.88	6.77	29.5
Pickerel Lake	St. Paul	6	1.78	14.7	60.33
Rogers Lake	Mendota Heights	4	2	4.03	14
Thompson Lake	West St. Paul	7	1.43	17.81	65.57

2018 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 2018, eight wetlands in the LMRWMO were monitored with the following results. A complete 2018 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 April 12th, 2017, 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 2018 finances. The 2018 LMRWMO Financial Audit was not ready at the time the document was submitted.

Wetland Banking

The LMRWMO does not have a wetland banking program.

Attachments

- 2018 Board of Managers Contact List
- 2019 Newsletter
- 2019 Adopted Budget

LMRWMO

LOWER MISSISSIPPI RIVER WATERSHED MANAGEMENT ORGANIZATION

2019 NEWSLETTER

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.

STORMWATER IMPROVEMENTS & CONTAMINATED SEDIMENT REMOVAL AT THOMPSON LAKE

The LMRWMO was awarded \$576,000 in funding from the Minnesota Board of Water and Soil Resources (BWSR) through the Clean Water, Land and Legacy Amendment for stormwater improvements at Thompson County Park in West St. Paul. This project will leverage over \$1.3M in County and \$144,000 in local funding to make the project possible.

The project involves two phases. Phase one will remove Polycyclic aromatic hydrocarbon (PAH) contaminated sediment from now-banned coal tar based driveway sealants. This has accumulated from decades of untreated stormwater entering the lake. PAHs are a group of semi-volatile organic compounds some of which are considered carcinogenic (i.e. cancer causing).

Phase two involves the installation of three types of stormwater treatment

measures to remove pollutants (phosphorus, sediment, chloride, heavy metals, and others) which are sent to the lake from the 180 acre watershed. The first type of treatment is large underground chambers (shown below) which will remove trash and large sediment from the stormwater. The next is a stormwater pond forebay



to allow pollutants to settle out in the water column. The third is a restored stormwater treatment wetland to even further remove and stop pollutants from reaching Thompson Lake. The project will reduce sediment entering Thompson Lake by up to 12.27 tons per year and total phosphorus by 43 pounds per year.

The project is the result of nearly a decade of studies, analysis, and gathering the necessary funding and will be completed in the spring of 2019.

BECOME A CITIZEN WATER QUALITY MONITOR!

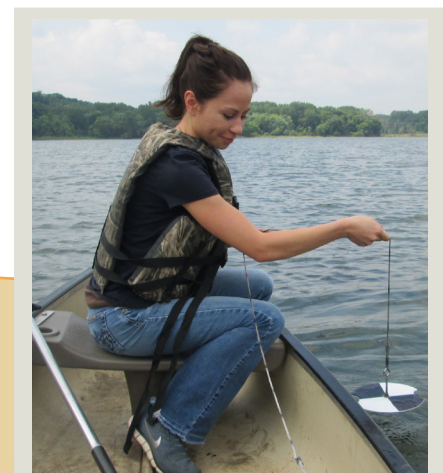
Help us gather the vital data to inform our lake and stream management decisions and ensure the lasting health of the LMRWMO lakes and streams.

Monitoring typically involves Secchi disk measurements to measure transparency of the water as well as measurements of phosphorus and chlorophyll in a lake. These give an indication of 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.

BEAUTIFY YOUR YARD, CLEAN STORMWATER, & PROVIDE POLLINATOR HABITAT

\$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. Through this program, we give you the tools and knowledge to transform your yard for the better. Register today to attend an introductory Landscaping for Clean Water workshop to learn about low-maintenance native gardens, raingardens, and native shoreline planting projects.

The workshop provides an overview of water quality challenges and provides beautiful and practical ways to transform conventional urban yards into beautiful and beneficial landscapes. You will also learn about \$250 grants available to participants. After the introductory workshop, you can sign up for a \$25 Landscaping for Clean Water Design workshop where you will work with professionals to design a project specific to your property.

Workshops are held annually from March to June and attendance at the introductory workshop is free. Register or find out more by calling (651) 480-7777 or visiting www.dakotacountyswcd.org



Example of a Residential Raingarden

ABOUT THE WATERSHED

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 and ensures that all stormwater projects and studies follow accepted engineering standards. The costs incurred are allocated proportionately to member cities. Other efforts of the LMRWMO include protection of surface waters, water monitoring, and public education.

The public is welcome to attend LMRWMO board meetings held on the second Wednesday of each month at 3:00 p.m. (No meetings typically held in January or July.) Meetings are located at the member city halls. For upcoming meeting information, contact your Board of Managers representative or visit: www.dakotaswcd.org/watersheds/lowermisswmo/agendas.html

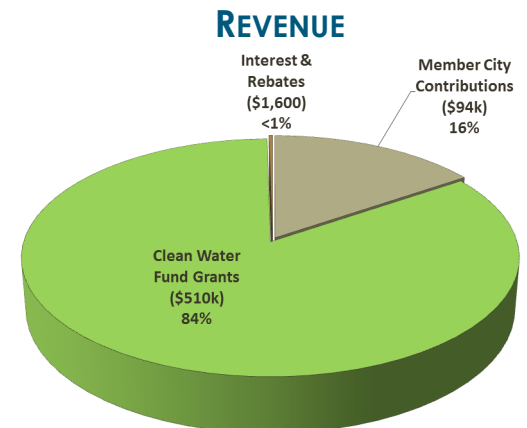
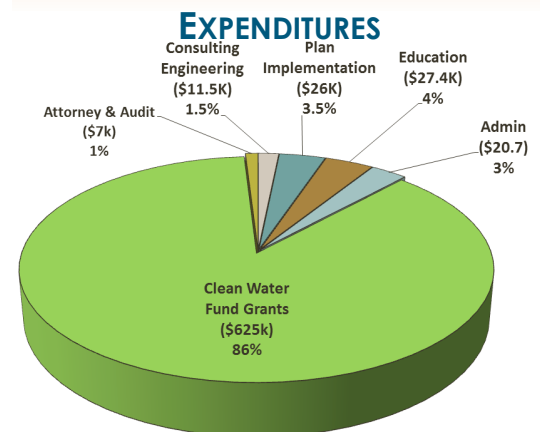
DID YOU KNOW?

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 highlighted Cities below.

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

2019 BUDGET

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



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

Jim McClosky (Member) - South St. Paul
John Ross (Alternate) - South St. Paul
Tom Sutton (Member) - Lilydale
Lyle Hanzal (Alternate) - Lilydale

Patti O'Leary (Member) - Sunfish Lake
Jim Stowell (Alternate) - Sunfish Lake
Sheila Vanney (Member) - West St. Paul
Administrator - Joe Barten (651) 480-7777

LMRWMO 2019 Approved Budget (WMO Operations Only, Grants Excluded)

ESTIMATED REVENUES AND ASSETS		2019 Budget
Use of Fund Balance		\$3,872
Dues from Members		\$94,209
Interest		\$500
LMCIT Rebate		\$500
TOTAL		\$99,081
ESTIMATED EXPENSES AND LIABILITIES		2019 Budget
Consulting Engineering		
Technical Assistance		\$5,500
Meetings		\$6,000
Plan Reviews		\$0
Watershed Plan Amendment		\$0
Subtotal		\$11,500
Project Implementation		
General Plan Implementation		\$5,000
Landscaping for Clean Water Projects		\$15,000
Water Monitoring		\$6,000
Subtotal		\$26,000
Education		
Landscaping for Clean Water Classes		\$6,400
Master Water Stewards		\$8,200
Storm Drain Stenciling Program		\$3,500
Stormwater Signage Program		\$2,500
General Education Activities		\$1,000
Metro Watershed Partners Membership		\$1,000
Board Tour		\$1,000
Website		\$1,700
CAC Coordination		\$1,120
Board Education		\$1,000
Subtotal		\$27,420
Administration		
General Administration		\$20,761
Accounting Services		\$1,400
Insurance		\$2,500
Attorney and Audit		\$4,500
Subtotal		\$29,161
Set Aside for 4th Generation Mgmt Plan		\$5,000
Cumulative Set Aside for 4th Gen Plan		\$40,000
TOTAL		\$99,081
40% Goal of Unencumbered Fund Balance		\$39,632
Year End Fund Balance		\$104,013
Unencumbered Year End Fund Balance		\$64,013