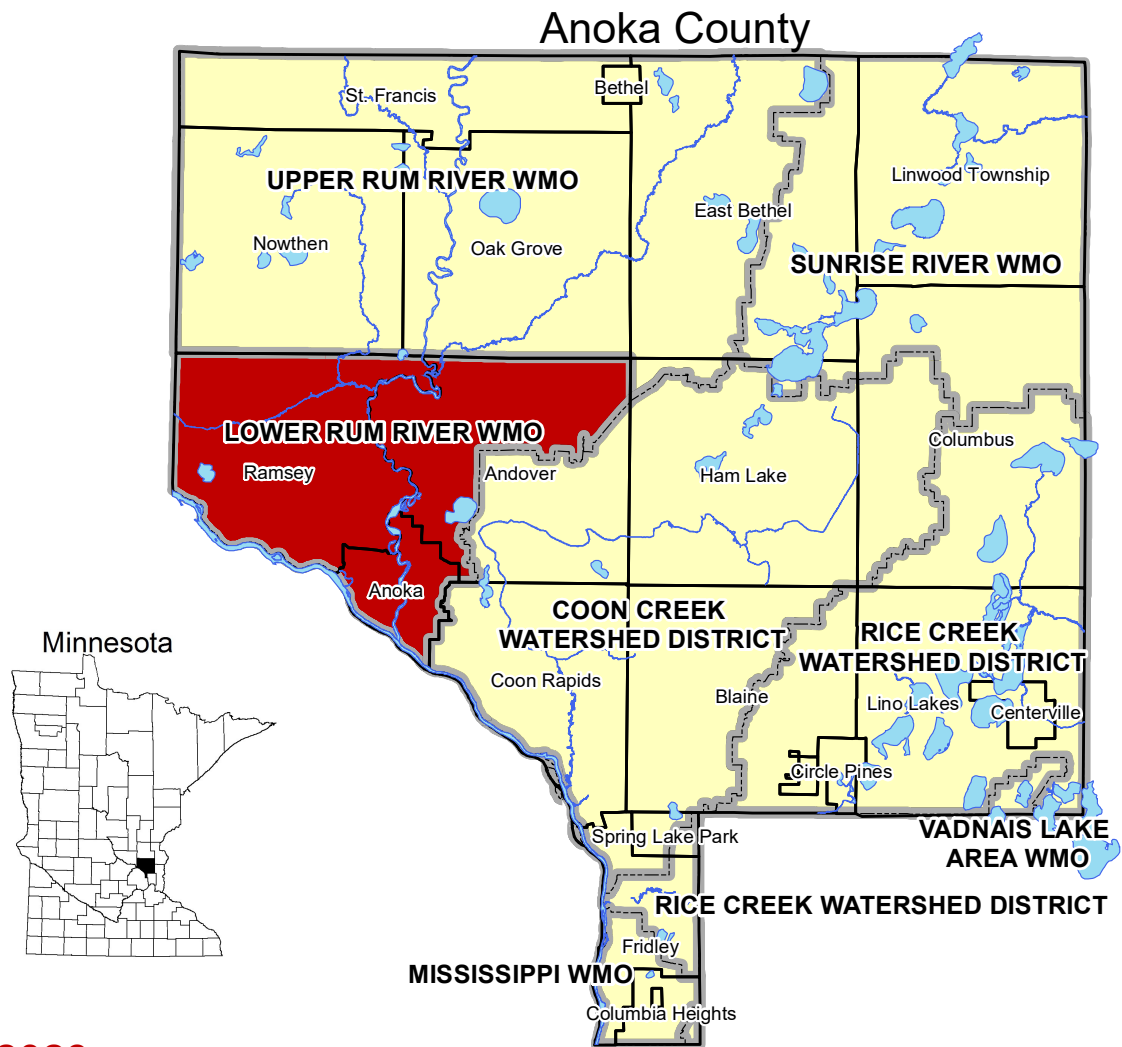


2022 Annual Report

Lower Rum River

Watershed Management Organization

Andover – Anoka – Ramsey



April 23, 2023

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Lower Rum River Watershed Management Organization
2015 First Avenue
Anoka, MN 55303
www.LRRWMO.org

I. Introduction

This report has been prepared to meet the annual watershed management organization reporting requirements of Minnesota Rules 8410.0150. The report is intended to fulfill 2022 reporting requirements.

The Lower Rum River Watershed Management Organization (LRRWMO) is a joint powers organization under Minnesota Statutes, Section 471.59. It is comprised of the cities of Anoka and Ramsey, and portions of Andover. Board members are appointed by the member cities. The organization's direction is laid out in its watershed management plan and the member municipalities' local water plans. The LRRWMO meets every month on the third Thursday at 8:00 am at the Anoka City Hall.



Rum River in Andover and Ramsey

II. Activity Report

a. Current Board Members

CITY OF RAMSEY

Debra Musgrove (Chair)
7550 Sunwood Dr NW
Ramsey, MN 55303
763/208-6729
dmusgrove@ci.ramsey.mn.us

Chris Riley (Alternate)
7550 Sunwood Dr NW
Ramsey, MN 55303
763/576-4368
criley@cityoframsey.com

CITY OF ANDOVER

Valerie Holthus (Vice Chair)
1685 Crosstown Blvd NW
Andover, MN 55304
763/753-3755
cm.holthus@andovermn.gov

Kim Kovich (Alternate)
763-228-9955

CITY OF ANOKA

Jeff Weaver (Treasurer)
2015 1st Ave N
Anoka, MN 55303
763/421-5522
Angler55303@yahoo.com

Phil Rice (Alternate)
2015 1st Ave N
Anoka, MN 55303
763/421-9244
philrice@ci.anoka.mn.us



View of Mississippi River Community Park in Anoka

b. Day to Day Contact

The day to day contact person for the LRRWMO who can answer questions about the organization is:

Becky Wozney
 1318 McKay Dr. NW, #300
 Ham Lake, MN 55304
 763-434-2030 ext. 140
Becky.Wozney@AnokaSWCD.org

c. Employees and Consultants

The LRRWMO does not employ staff, but does utilize consulting services. A description of contracted services is listed below:

| Consultant/Partner | Contact | Work Description |
|--------------------------------------|--|---|
| Anoka Conservation District | Jamie Schurbon Watershed Projects Manager 1318 McKay Dr NW, #300 Ham Lake, MN 55304 763-434-2030 ext. 210 jamie.schurbon@anokaswcd.org Becky Wozney Same address Becky.Wozney@anokaswcd.org 763-434-2030 ext. 140 | <ul style="list-style-type: none"> • Water quality and hydrologic monitoring, and special studies • Website maintenance • Administer the WMO’s cost share grant program • Public outreach • Reporting assistance • Assistance reviewing local water plans |
| Barr Engineering | Stephanie Johnson Senior Water Resources Engineer 4700 West 77 th St Minneapolis, MN 55435-4803 952-832-2945 | <ul style="list-style-type: none"> • Permit reviews. • Technical and engineering guidance • Assistance reviewing local water plans • Watershed management plan update |
| City of Anoka Finance Department | Lori Yager, Finance Director 2015 First Ave North Anoka, MN 55303-2270 | <ul style="list-style-type: none"> • Deputy Treasurer |
| Kennedy & Graven | Troy Gilchrist 470 Pilsbury Center Minneapolis, MN 55402 612-337-9214 | <ul style="list-style-type: none"> • Legal services |
| Timesaver Off Site Secretarial, Inc. | Carla Wirth 21021 Karoline Court N. Forest Lake, MN 55025 612-251-8999 timesaver.secretarial@gmail.com | <ul style="list-style-type: none"> • Administrative secretary • Recording secretary for meetings |

d. Solicitations for Services

Minnesota Statutes 103B.227 require watershed management organizations to solicit bids for professional services at least once every two years. In 2022, the LRRWMO solicited proposals for 2023 water monitoring and management services. Only one proposal was received, from the Anoka Conservation District (ACD). The LRRWMO favorably viewed this proposal and ACD’s past performance for the LRRWMO, and selected this agency.

e. Water Quality Trends

The LRRWMO has a long-term water quality monitoring program that includes most larger stream and recreational lakes in the watershed. Waterbodies are monitored either periodically or annually on a predetermined schedule customized to each waterbody. The monitoring serves to identify problems and responses to management, detect trends, and track longitudinal changes.

LRRWMO monitored lakes and their trend analyses are in the table below.

Summary of lake water quality trends

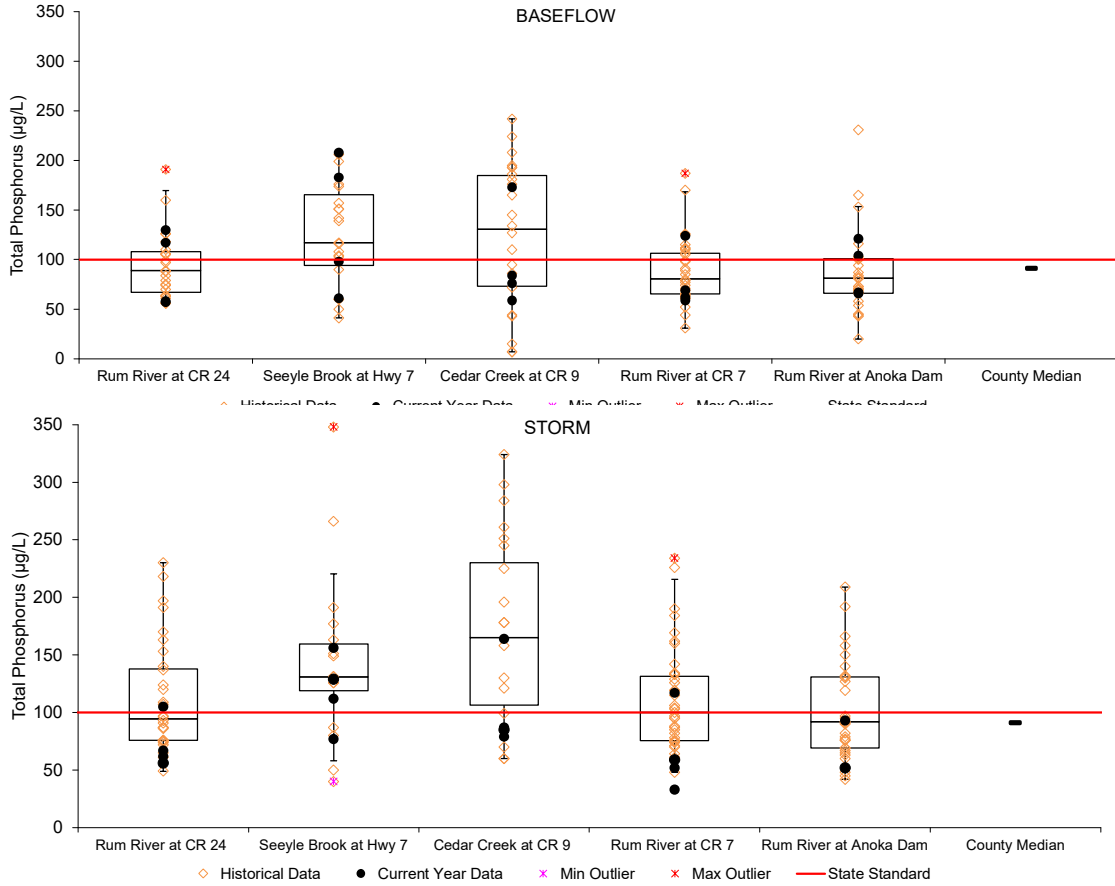
| Lake | Years monitored | Most recent year monitored | Letter grade | Trend |
|---------|-----------------|----------------------------|--------------|----------------------|
| Round | 13 | 2022 | B+ | Very slight decrease |
| Sunfish | 5 | 2022 | B+ | Insufficient data |

While a long-term statistical trend for the Rum River has not been found in the LRRWMO’s analysis for its reach of the river, there is a general observation of long-term water quality improvement for the entire river. An analysis for the Rum River Watershed Restoration and Protection Strategies (WRAPS) project, which covers the whole watershed, found that at the Pleasant Street Bridge in Anoka there had been a 51% decline in total phosphorus in the years 1953 to 2010.

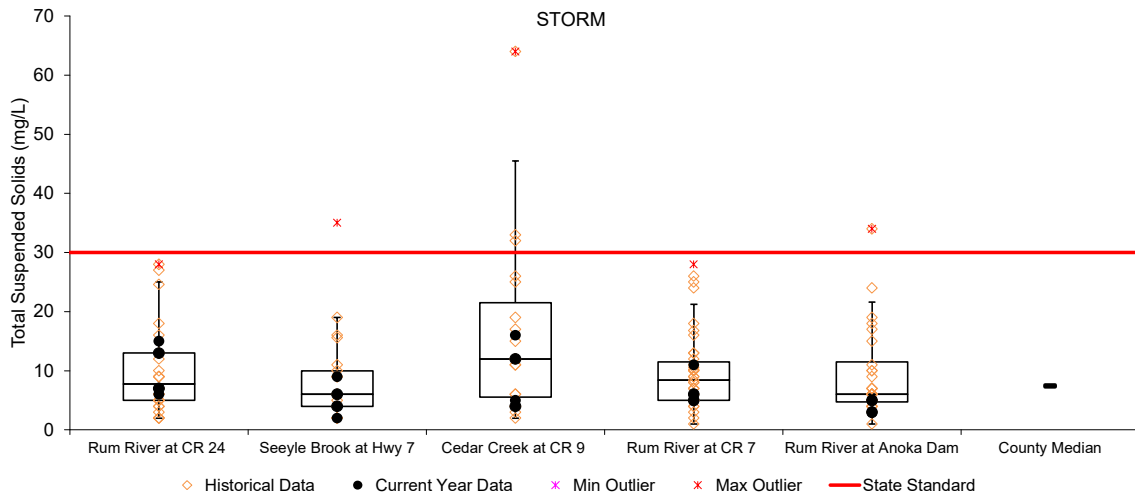
The LRRWMO also takes special interest in how the Rum River’s water quality changes longitudinally, particularly within its jurisdictional boundary. The Rum River is monitored most years near where it enters and exits the LRRWMO. The figure below provides data for phosphorus and suspended solids and Appendix D in our 2022 annual report provides detailed results for many additional parameters. Phosphorus and suspended solids are similar when comparing water entering and leaving the LRRWMO. This is encouraging, because this reach includes many developed and developing areas, which could contribute these pollutants. The LRRWMO’s permitting program is designed to limit pollutant increases from these sources. The LRRWMO will continue efforts to improve water quality in its jurisdiction.

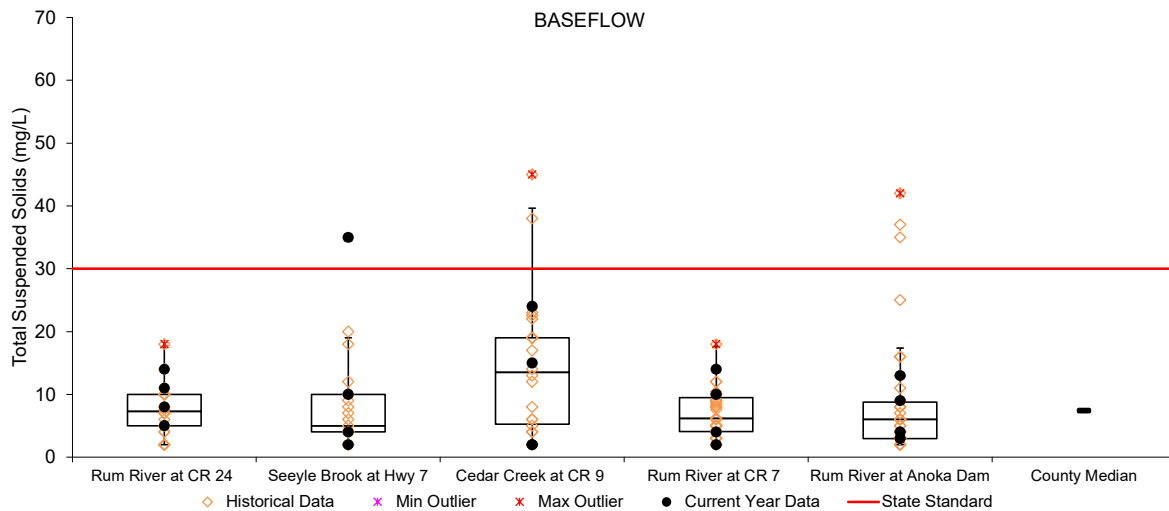
Water quality of the river does change in other areas outside the LRRWMO. Water monitoring farther upstream has been sporadic, most recently occurring in 2013-2014. There are water quality declines that generally occur within the Isanti County reaches of the river, which has the most agriculture and impaired waterbodies draining to the lake.

Rum River total phosphorus during baseflow and storm conditions. Orange diamonds are historical data from previous years and black circles are 2022 readings. Box plots show the median (middle line), 25th and 75th percentile (ends of box), 10th and 90th percentile (floating outer lines) and red line are state standards.



Total suspended solids during baseflow and storm conditions. Orange diamonds are historical data from previous years and black circles are 2022 readings. Box plots show the median (middle line), 25th and 75th percentile (ends of box), 10th and 90th percentiles (floating outer lines) and red lines are state standards.





Additional water quality data is available online. Annual watershed monitoring reports are available on the LRRWMO website (www.LRRWMO.org). All water quality data collected by the LRRWMO is on the MN Pollution Control Agency's EQUIS database, which is accessible through their website.

f. Impaired Waters

Two impaired waters are of relevance to the LRRWMO: Trott Brook and Mahoney Brook. Neither has an apparent water quality trend. Trott Brook originates in Sherburne County outside the LRRWMO but much of its length is in the LRRWMO. Mahoney Brook's subwatershed is partly within the LRRWMO, but the impaired reach of the stream is not.

Impaired Waterbodies

Trott Brook, a tributary to the Rum River, was added to the State impaired waters list in 2015 for impaired biota (fish and macroinvertebrates) and low dissolved oxygen. A TMDL was done only for the oxygen impairment in 2016 and approved in 2017 as part of the Rum River Watershed TMDL report (available on the Minnesota Pollution Control Agency website). That study found low oxygen is the likely cause of the biotic impairments. Causes of low oxygen include nutrients (phosphorus), decomposing organic matter (sediment oxygen demand and decomposition in surrounding ditched wetlands) and others. Low oxygen occurs under all flows (low to high), indicating the problem is not runoff-driven. Overall, a 50% reduction of oxygen demand is needed to meet water quality standards. Management strategies may include wetland restorations and nutrient reduction BMPs. In 2020, sulfate was added as an impairment.

Mahoney Brook was added to the State impaired waters list in 2015 for an impaired biota (fish). The impaired stream reach is not in the LRRWMO, but begins at the LRRWMO boundary and flows north. Presumably, a future TMDL for the impaired reach would include pollutant allocations for the upstream portions of the watershed in the LRRWMO. Draft analysis for the Rum River WRAPS project have concluded that low dissolved oxygen, excess phosphorus and habitat are all stressors to the biological community.

g. Evaluation of Watershed Plan Implementation

The current LRRWMO Watershed Management Plan was approved by the Minnesota Board of Water and Soil Resources (BWSR) in late 2021 and adopted by the LRRWMO on December 16, 2021. Implementation began that same year. The plan contains a detailed schedule of tasks that the LRRWMO should accomplish each year from 2022 through 2031 in order to realize its goals.

Appendix B is a table that shows tasks planned for each year in the watershed management plan, as well as responsible parties. It details which tasks were planned and completed.

The LRRWMO deviated from its work plan in the following ways in recent years:

- | | |
|--------|---|
| Change | Removed Trott Brook water quality and hydrology monitoring. |
| Reason | The LRRWMO Watershed Plan’s monitoring schedule states the goal of monitoring Trott Brook is to determine its impairment status and calculate a TMDL. Trott Brook was extensively monitored in 2013-14 as part of the Rum River WRAP and that data is being used for TMDL calculation. MPCA has informed us that additional data would not be used for the TMDL because it is complete. No management actions have since occurred that might lead to a change in condition. |
| Change | Removed Rogers Lake water quality monitoring. |
| Reason | Rogers Lake was monitored by the LRRWMO in the early and mid-2000’s. It was found to be impaired, then removed from the impaired waters list because it does not meet the definition of a lake. The LRRWMO decided to discontinue monitoring of this lake because it has no public access and no outlet (to impact downstream waters). |
| Change | Added Sunfish Lake water quality monitoring. |
| Reason | Sunfish Lake was being monitored by the Anoka Ramsey Community College, but the college discontinued this work and had not been submitting their data to state databases. The waterbody has a growing importance in the community with the development of a shoreline park and homes. |
| Change | Did not monitor groundwater levels or trends. |
| Reason | Groundwater monitoring is best done at a regional level. The MN DNR has taken the lead. |
| Change | Did not monitor the Rum River at the Anoka Dam. |
| Reason | Metropolitan Council monitors this site or nearby sites and makes the data available to the LRRWMO. |
| Change | Added production of a brochure about the LRRWMO, programs and water resources. |
| Reason | The board felt the need to have distributable materials for public events and public places such as city hall lobbies. |
| Change | Added support of the Anoka County Water Resource Outreach Collaborative, including for groundwater and lakeshore stewardship videos. |
| Reason | The board felt this program could advance outreach and education goals of the LRRWMO and its member communities, and reduce duplication. |

h. Status of Ordinances and Local Plan Implementation

All LRRWMO member cities local water plans were required to be updated for consistency with the LRRWMO Watershed Management Plan within two years of WMO plan adoption in January 2012. The status of each is summarized in the table below.

To track member cities' progress on local plan implementation, the LRRWMO requires a brief annual report from each city and provides a template for this report. In addition to serving as a reporting tool, we hope that the template serves as a "to do" list for our cities. These reports are available upon request, and are summarized in the table below.

Status of city local water plans and some recent accomplishments toward plan implementation.

| City of Andover | |
|---|--|
| Submitted 2022 annual report to LRRWMO? | Yes |
| Ordinances and Local Water Plan Status | Andover's Local Water Plan was approved by the LRRWMO May 21, 2015. The city has all of the ordinances required by the LRRWMO. |
| Some Recent Implementation Accomplishments | <ul style="list-style-type: none"> • Street sweeping completed annually. • Educational outreach in 2022 reached about 3300 households. Outreach efforts included newsletters (lawn care, adopt a street/pond/storm drain, pet waste, etc), brochures, website, local television (QCTV), and events such as the North Suburban Home Show and Andover Fun Fest. Adopt-a-Storm Drain allowed for 76 stencils to be drawn on streets educating neighborhoods about the importance of non-point source pollution. Tree giveaway for Arbor Day event. Overall, educational outreach covered the topics of wetland protection BMPs, controlling invasive species, water conservation, yard waste management, pet waste disposal, and groundwater quality and protection. • New and reconstructed street projects were completed in 2022. When feasible catch basin sumps were installed in storm sewers to collect sediment. • Water control structures and stormwater treatment basins are inspected every five years and maintenance action is taken as needed. The City Public Works Department corrects issues including but not limited to sediment deposition (requiring pond dredging), stabilization, infrastructure repair, and storm sewer pipe and catch basin cleaning. Records are kept on file at the City. • Illicit discharge detection and elimination program. • Andover is actively inspecting its outfalls into the Rum River and other public waters. Records are maintained in city GIS software. • Periodic inspections of erosion control at construction sites. • Management of natural preserves called Martin's Meadows, Maple View, Dalske and Northwoods Preserve continue. Efforts underway include prairie establishment, buckthorn control, and site stabilization where necessary. |
| City of Anoka | |
| Submitted 2022 annual report to LRRWMO? | Yes |

| | |
|---|--|
| Ordinances and Local Water Plan Status | The City of Anoka’s local water plan was approved by the LRRWMO May 21, 2015. The city has all of the ordinances required by the LRRWMO. |
| Some Recent Implementation Accomplishments | <ul style="list-style-type: none"> • Constructed 80 catch basins on city projects. • 5 rain gardens installed. • 7 streambank stabilizations installed. • Street sweeping. • Inspected water level controls and basins every 5 years. • The Public Service Department performed infrastructure repairs, removed sediment from treatment structures and cleaned storm sewers and catch basins. • Illicit discharge detection and elimination program. • Planted over 20 trees on city property. • Educational outreach including 4 newsletter articles, 2 brochures, 3 website postings, and Arbor Day tree program and use of social media. Topics included controlling invasive species, water conservation, hazardous waste disposal, and yard waste management. The audience was 7,000 residents. • Anoka manages stormwater activities to ensure no net increase in volume, rate, sediment or nutrient loading. Street reconstruction projects are used as an opportunity to add more water treatment. • Annual outfall inspections and repair as needed. |
| City of Ramsey | |
| Submitted 2022 annual report to LRRWMO? | Yes |
| Ordinances and Local Water Plan Status | The City of Ramsey’s local water plan was approved by the LRRWMO September 17, 2015. Ramsey has all of the ordinances required by the LRRWMO. |
| Some Recent Implementation Accomplishments | <ul style="list-style-type: none"> • 1 cedar tree revetment installed and 1 traditional stabilization installed. • 1 raingarden installed. • Annual street sweeping. • Implementing a five year plan for inspecting stormwater ponds. • Illicit discharge detection and elimination program. • Public Works cleaned ditches and culverts identified during inspection. • Reached 9,500 households with newsletter articles, brochures, and website postings. Topics of education efforts included yard waste management and groundwater protection. |

i. Public Outreach

The LRRWMO and its member cities do regular public outreach and education projects. These include:

- **WMO website**, including general information about the organization, the watershed management plan, meeting agendas and minutes, water monitoring results, profiles of WMO projects, access to mapping and data access tools, and others.

LRRWMO Website

Lower Rum River WMO

Protecting & managing the waters of the Lower Rum River Watershed in western Anoka County, MN

News and Announcements

New links to keep you posted on the latest with the LRRWMO

[League of Women Voters Meeting Video about Water and the Rum River](#)

OTHER NEARBY WATERSHED ORGANIZATIONS

- Coon Creek Watershed District
- Rice Creek Watershed District
- Sunrise River WMO
- Upper Rum River WMO
- Vedna's Lake Area WMO

The Lower Rum River Watershed Management Organization (LRRWMO) is a joint powers special purpose unit of government including the cities of Ramsey, Anoka, and portions of Andover.

The WMO Board is made up of representatives from each of these cities. This organization seeks to protect and improve lakes, rivers, streams, groundwater, and other water resources across municipal boundaries. These goals are pursued through

- water quality and flow monitoring
- investigative studies of problems
- coordinating improvement projects
- education campaigns
- a permitting process
- others at the WMO's discretion

All of the WMO's activities are guided by their Watershed Management Plan.

Resources of particular importance to the LRRWMO include the Rum River, Trott Brook, numerous ditches that drain to the Rum River, Round Lake, Lake Itasca, and numerous wetlands. The Mississippi River is also notable, as it borders the southern edge of the WMO's jurisdictional area. Because little of the land area in the LRRWMO drains directly to the Mississippi, but rather to the Rum River, the Mississippi receives protection from the WMO primarily through management of the Rum.

Most projects that may directly or indirectly effect water resources are required to have a permit from the LRRWMO. If you are considering a construction project or projects in or around wetlands, streams, rivers, or lakes, you should further research permit requirements on this website, or contact a LRRWMO representative: 763-767-5131, 2015 First Avenue, Anoka, MN 55303

Meetings: 3rd Thursday 8:00am at the Anoka City Hall

Administrative Support: Carla Wirth, Time Saver Off Site Secretarial, Inc 2015 First Ave., Anoka, MN 55303, 612-251-8999

Meeting Schedule

Generally, the LRRWMO meets on the 3rd Thursday of the month at 8am at the Anoka City Hall. Tentative Meetings for 2020: January 16, February 20, March 19 - Cancelled, April 16, May 21, June 18, July 16, August 20, September 17, October 15, November 19, December 17

[AGENDA & MINUTES](#)

- **Web videos** – To bolster the content of the website the LRRWMO creates web videos. They include:

| | |
|---------|---|
| 2012 | About the LRRWMO |
| 2013-14 | Water conservation, Scenic River Rules |
| 2014-15 | Wetland regulation, Correcting riverbank erosion |
| 2018-19 | Groundwater videos in collaboration with Anoka County Water Outreach Collaborative |
| 2020 | “Our Lakeshore Connection” (2 videos) in collaboration with Anoka County Water Outreach Collaborative |
| 2022 | “Our River Connection” Video |
- **Newsletter articles** – Articles are prepared by the LRRWMO and printed in member city newsletters. Copies of several of these articles are provided in **Appendix C**.
- **Public officials meetings** – Approximately every 5 years the LRRWMO hosts a dinner meeting for local officials. The purpose is to educate elected officials about the role of the WMO, discuss upcoming projects, and consider the overall direction of the WMO. These meetings were last held in 2008, 2013 and 2017.
- **Bi-annual river float with city officials and staff** – Every other year the WMO Board, along with city staff and officials, float the Rum or Mississippi River. The trip is an opportunity to inspect for violations or problems, as well as share an appreciation of the river with decision-makers. A float was last done in September 2019 on the Rum River from the County Road 7 bridge (top of the LRRWMO) to the Anoka Dam (near the bottom of the LRRWMO). The LRRWMO’s last float was cancelled because of COVID-19.
- **A wetland education series** – From 2013 to 2020 the LRRWMO is conducting a six-part education program about wetlands. The purpose is to improve public understanding of wetland values and rules. Cities continued wetland education outreach including providing educational materials in city halls.

j. Permits, Variances, and Enforcement Actions

The LRRWMO's 2022 permit activity is summarized in the table below.

| Permit Name | Permit # | City | Summary |
|--|-----------------|---------------|---|
| Anoka Senior High | 2022-01 | Anoka | Wetland boundary and type determination. Project approved. |
| Pine Hills N Wetland Restoration WCA | 2022-02 | Andover | Wetland boundary and type determination. Project approved. |
| Pine Hills N Wetland Restoration Erosion | 2022-03 | Andover | A ditch plug on a City park to hydrologically enhance 5 acres of wetland and remove invasive species. Project approved. |
| Riverdale Dr Trunk Utility Improvements | 2022-04 | Ramsey | Extension of existing road approximately 4,300 lineal feet. This will add 5.6 acres of new impervious which will be treated with one stormwater basin. Project Approved. |
| Viking Mold Building Stormwater | 2022-05 | Ramsey | Construction of a 10,200 sf building and 10,000 sf parking expansion on a 2.7 acre lot. One stormwater basin constructed. |
| Viking Mold Building Wetland | 2022-06 | Ramsey | Wetland boundary and type determination. Project approved. |
| 54 Tiger St. Electric Line | 2022-07 | Ramsey | Directional bore under Trott Brook. Project withdrawn. |
| PACT Charter School Wetland | 2022-08 | Ramsey | Wetland boundary and type determination. Project approved. |
| Peterson Farms Phase 3 | 2022-09 | Andover | Wetland boundary and type determination. Project approved. |
| CSAH 7 & 143 rd Ave | 2022-10 | Andover/Anoka | Reconstruction of this intersection. No new impervious so the only permit is for erosion control measures. Project approved. |
| Rivenwick 4 th Addition | 2022-11 | Ramsey | Development of 27 townhome units and corresponding street and utilities on a 7.1 acre site. On-site stormwater (2 basins) provided to comply with LRRWMO requirements. Project approved. |
| Pact Charter School-Grading | 2022-12 | Ramsey | Construction of school including ball field development. Project approved. |
| Summergate Development | 2022-13 | Ramsey | Wetland boundary and type determination. Project approved. |
| Trott Brook Crossing | 2022-14 | Ramsey | Construct 270 single-family homes. Project approved. |

| Permit Name | Permit # | City | Summary |
|--|-----------------|-------------|--|
| Rum River Stabilization | 2022-15 | Anoka | Woodbury House riverbank stabilization. Project approved. |
| Lil Explorers Daycare | 2022-16 | Ramsey | Development of 1.74 acres of the Ramsey Storage property. Storm water pond already constructed. Project approved. |
| Kelsey Round Lake Park | 2022-17 | Andover | Wetland boundary and type determination. Project approved. |
| Dalske Woodlands Boardwalk | 2022-18 | Andover | Wetland boundary and type determination. Project approved. |
| 161 st Ave Reconstruct | 2022-19 | Andover | Wetland boundary and type determination. Project approved. |
| Tulip St. site | 2022-20 | Andover | Wetland boundary and type determination. Project approved. |
| COR Wetland Review & Mitigation | 2022-21 | Ramsey | Wetland boundary and type determination and incidental wetland determination. Project approved. |
| Graco Anoka Plant Expansion | 2022-22 | Anoka | Wetland boundary and type determination. Project approved. |
| Anoka Retail Project (Bunker & 7 th) | 2022-23 | Anoka | Development of a 14 acre parcel with a proposed grocery store and further retail use. Three stormwater basins are proposed. Project approved. |

k. 2023 Work Plan

Planned 2023 activities are listed in the table below. Most routine administrative tasks are excluded.

| Task | Purpose | Description | Locations or Action | Cost |
|---|---|---|---|-------------|
| Lake Level Monitoring | To understand lake hydrology, including the impact of climate or other water budget changes. These data are useful for regulatory, building/development, and lake management decisions. | Weekly water level monitoring in lakes by volunteers. All are available on the Minnesota DNR website using the “LakeFinder” feature (www.dnr.mn.us.state\lakefind\index.html). | Itasca Lake Round Lake Sunfish Lake Rogers | \$1,400 |
| Lake Water Quality | To detect water quality trends and diagnose the cause of changes. | Every other week May-Sept for total of 10x. Parameters: total phosphorus, chlorophyll-a, dissolved oxygen, turbidity, temperature, conductivity, pH, salinity and transparency. Subjective ranking of recreational suitability and physical conditions will also be noted using the Metropolitan Council’s ranking protocol. | Round | \$2,260 |
| Trott Brook Water Quality Monitoring | To detect water quality trends and diagnose the cause of changes. | ACD will perform monitoring of at least two sites on Trott Brook to complement a WBIF grant funded study. It will include lab analyses, in-field water quality measurements, flow measurements and stage monitoring. | Trott Brook | \$1,900 |
| Stream Water Quality Monitoring | To detect water quality trends and diagnose the cause of changes. Rum River monitoring is done where the river enters and leaves the LRRWMO. | Eight water samples are taken throughout the open water season. Parameters tested include total phosphorus, total suspended solids, turbidity, conductivity, dissolved oxygen, chloride, and others. Hydrology data is provided by the USGS station near St. Francis for the Rum River. | Rum River at CR7 | \$1400 |
| Rum River Invertebrate Biomonitoring | To assess overall river health. To provide a hands-on educational experience to high school students. | Facilitated by the ACD, science classes from Anoka High School assess aquatic insect populations. Students will collect macroinvertebrate samples, identify them, and calculate indices of river health. Anoka Conservation District staff provide instruction, oversight, and write a final report. This monitoring has been conducted for more than 10 years. | Rum River at Bunker Lake Blvd | \$1000 |

| Task | Purpose | Description | Locations or Action | Cost |
|--|--|--|---|-------------|
| Reference Wetland Hydrology Monitoring | The ACD maintains a network of 18 reference wetlands throughout the county. These data aid in understanding of water conditions in wetlands, surficial water table changes, and trends | Install and maintain a WL40 electronic water level monitoring device at the edge of reference wetlands. These devices measure water levels every four hours. | AEC Ref Wtld Rum Central Ref Wtld Lake Itasca Trails Ref Wtld | \$2100 |
| LRRWMO Website | To increase awareness of the LRRWMO and its programs. The website also provides tools and information that helps users better understand water resources issues in the area. The website serves as the alternative to a state-mandated newsletter. | Maintain and update the WMO website with current information about the organization, and meeting minutes and agendas. Web videos developed by the LRRWMO are also featured on the website. | http://www.lrrwmo.org | \$900 |
| Newsletter articles | To increase public awareness of water resources and the LRRWMO. | Two newsletter articles will be produced and printed in city newsletters. | Watershed-wide | \$1,120 |
| Anoka Co Water Resources Outreach Collaborative | Coordinated outreach and education programming across watersheds and cities while reducing duplication. | LRRWMO is providing financial support to match a \$34,000 Rum Metro Watershed Based Implementation Funding Grant. | Watershed-wide | \$3,000 |
| Prepare Annual Report to State Auditor | To provide transparency and accountability of organization operations. | An annual financial report and online reporting of WMO finances though the State Auditor's SAFES website is completed by the LRRWMO's Deputy Treasurer. | Watershed-wide | \$0 |
| Prepare Annual Report to BWSR | To provide transparency and accountability of organization operations. | Produce an annual report of WMO activities and finances that satisfies Minnesota Rules 8410.0150. | Watershed-wide | \$850 |
| Permitting Program | To ensure water quality and hydrology are properly taken into consideration during construction projects. | The LRRWMO permitting program targets land disturbance activities. | Watershed-wide | Variable |
| Cost Share Grants for Water Quality Improvement | To improve water quality in lakes, rivers, and streams. | These grants offer incentives for a water quality improvement projects. Typical projects include erosion correction, lakeshore restoration, and rain gardens. The Anoka Conservation District provides administration. | Offer grants | \$2,000 |
| Rum River IWIP | A water management plan across all areas of the Rum River watershed including 18 counties, SWCDs, and watershed organizations. The plan identifies priorities. | The LRRWMO is participating in the planning process and will consider plan adoption upon completion. | Basin-wide | |

III. Financial and Audit Report

a. 2022 Financial Summary

See Appendix A.

b. Fund Balances

See Appendix A.

c. Financial Audit Documentation

The LRRWMO is required to complete an audit every five years. The last audit was done of 2019 finances and submitted to the State at that time.

2023 Budget

RESOLUTION # 2022-01

RESOLUTION OF THE LOWER RUM RIVER WATERSHED MANAGEMENT ORGANIZATION (LRRWMO) FOR ADOPTING THE BUDGET FOR YEAR 2023

BE IT RESOLVED by the Board of the Lower Rum River Watershed Management Organization of Minnesota as follows:

1. The budget for the LRRWMO the year 2023 hereby approved and adopted with appropriations for each of the various activities as follows:

REVENUE:

| | |
|-------------------|-------------------|
| Assessments | |
| Andover | \$ 27,486 |
| Anoka | \$ 21,494 |
| Ramsey | \$ 51,020 |
| | <u>\$ 100,000</u> |
| Permits | \$ 35,000 |
| Grants | \$ 1,500 |
| Interest earnings | \$ 750 |
| TOTAL REVENUES | <u>\$ 137,250</u> |

EXPENDITURES:

| | |
|---|-------------------|
| Engineering | \$ 16,000 |
| Permit Review | \$ 30,000 |
| Legal | \$ 4,000 |
| Financial Services | \$ 8,460 |
| Secretarial Services | \$ 9,100 |
| Postage, Copying, etc. | \$ 1,600 |
| Insurance | \$ 2,500 |
| Water Resource Coordinator | \$ 17,200 |
| Web Site maintenance/upgrade | \$ 900 |
| Annual Report to BWSR | \$ 850 |
| Writing Grant Application Fees | \$ 1,000 |
| Citizens Advisory Committee (CAC) | \$ 750 |
| Water Quality Cost Share Grant Search/Program | \$ 5,000 |
| Streambank Restoration Projects | \$ 32,870 |
| Wetland education (2 city newsletter articles) | \$ 1,120 |
| Anoka Co. Water Resource Outreach Collaborative | \$ 3,000 |
| Lake Level Monitoring | \$ 1,400 |
| Lake Water Quality Monitoring | \$ 2,260 |
| Rum River Water Quality Monitoring | \$ 1,400 |
| Trott Water Quality | \$ 9,000 |
| Steam Biomonitoring w/ students | \$ 1,000 |
| Wetland Monitoring | \$ 2,100 |
| Miscellaneous | \$ 4,000 |
| TOTAL | <u>\$ 155,510</u> |

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Appendix A: 2022 Financial Report

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Appendix B:
Implementation of Watershed
Management Plan Summary

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Lower Rum River Watershed Management Organization Task Checklist

| WATER MONITORING AND IMPROVEMENT | 2022 | | | | | | 2023 | | | | | | 2024 | | | | | | 2025 | | | | | | |
|--|------|---------|-------|--------|--------|-------|------|---------|-------|--------|--------|-------|------|---------|-------|--------|--------|-------|------|---------|-------|--------|--------|-------|--|
| | ACD | Andover | Anoka | Ramsey | LRRWMO | Other | ACD | Andover | Anoka | Ramsey | LRRWMO | Other | ACD | Andover | Anoka | Ramsey | LRRWMO | Other | ACD | Andover | Anoka | Ramsey | LRRWMO | Other | |
| Task | | | | | | | | | | | | | | | | | | | | | | | | | |
| MN-1 Lake WQ Monitoring | | | | | | | | | | | | | | | | | | | | | | | | | |
| "X" when completed | X | | | | X | | | | | | | | | | | | | | | | | | | | |
| MN-2 Lake Level Monitoring | | | | | | | | | | | | | | | | | | | | | | | | | |
| "X" when completed | X | | | | X | | | | | | | | | | | | | | | | | | | | |
| MN-3 Rum River WQ Monitoring | | | | | | | | | | | | | | | | | | | | | | | | | |
| "X" when completed | X | | | | X | | | | | | | | | | | | | | | | | | | | |
| MN-4 Stream Bio Monitoring-Macroinvertebrate monitoring on the Rum Rier facilitated by ACD and local schools. | | | | | | | | | | | | | | | | | | | | | | | | | |
| "X" when completed | X | | | | X | | | | | | | | | | | | | | | | | | | | |
| MN-5 Wetland Monitoring-Wetland hydrology monitoring performed annually at 3 locations in the WMO | | | | | | | | | | | | | | | | | | | | | | | | | |
| "X" when completed | X | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECTS/PROGAMS | 2022 | | | | | | 2023 | | | | | | 2024 | | | | | | 2025 | | | | | | |
| | ACD | Andover | Anoka | Ramsey | LRRWMO | Other | ACD | Andover | Anoka | Ramsey | LRRWMO | Other | ACD | Andover | Anoka | Ramsey | LRRWMO | Other | ACD | Andover | Anoka | Ramsey | LRRWMO | Other | |
| PP-1 Cost-share grant small projects-fund grants for WQ improvement including shoreland restoration et al | X | | | | | | | | | | | | | | | | | | | | | | | | |
| PP-2 Rum River Streambank Restoration-fund projects to reduce phosphorus/sediment loading to the Rum River. | X | | | | | | | | | | | | | | | | | | | | | | | | |
| PP-3 Mississippi River Streambank Restoration-fund and implement projects to reduce phosphorus/sediment to Mississippi | X | | | | | | | | | | | | | | | | | | | | | | | | |
| PP-4 Ramsey Central Park Stormwater (non-WBIF) | | | | | | | | | | | | | | | | | | | | | | | | | |
| LRRWMO advised Ramsey plans | | | | | | | | | | | | | | | | | | | | | | | | | |
| "X" when completed | | | | X | | | | | | | | | | | | | | | | | | | | | |
| PP-5 Support for Rum River IWIP projects located upstream-provide written support | | | | | | | | | | | | | | | | | | | | | | | | | |
| PP-6 Subwatershed Analyses of City of Andover draining to Rum River-Conduct studies to assess pollutant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Funding secured. 2023 work | | | | | | | | | | | | | | | | | | | | | | | | | |
| "X" when completed | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| PP-7 Trott Brook Study (WBIF) | | | | | | | | | | | | | | | | | | | | | | | | | |
| PP-8 Install stormwater retrofits at priority sites identified by SWAs | X | | | | | | | | | | | | | | | | | | | | | | | | |
| PP-9 Wetland Restoration support for partners in priority areas | | | | | | | | | | | | | | | | | | | | | | | | | |
| WBIF funding secured | | | | | | | | | | | | | | | | | | | | | | | | | |
| PP-10 Groundwater Planning and Technical Assistance | | | | | | X | | | | | | | | | | | | | | | | | | | |

Appendix C: Newsletter Articles

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Grants Available for the Replacement of Qualifying Water Controls

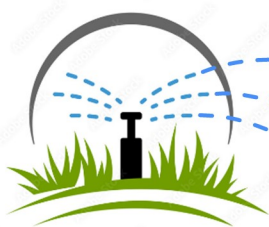


The City of Ramsey has grant funds available through the Water Efficiency Grant Program. Through this program, City of Ramsey water customers have an opportunity to replace existing, inefficient clothes washing machines with Energy Star labeled devices or irrigation controllers and toilets with WaterSense labeled devices and receive a rebate for the cost of the device or \$200, whichever is less.

The goal of this program is to help conserve water and help you save money on your water bill. The City is able to offer this rebate program thanks to grant funding through the Metropolitan Council and the Clean Water Land and Legacy Amendment. It is estimated that an Energy Star labeled clothes washing machine could save approximately 3,000 gallons of water per year. A WaterSense labeled toilet could save approximately 12,200 gallons of water per year and a WaterSense labeled irrigation smart controller could save approximately 15,000 gallons of water per year. These improvements should save a significant amount of water and result in savings on a water utility bill!

Eligibility criteria include: (1) must be a Ramsey water utility customer (on the City's water supply system); (2) the purchase must be replacing an existing device(s); new construction projects are not eligible for this grant funding); (3) the product must be an Energy Star labeled clothes washing machine or a US EPA WaterSense labeled toilet or, smart irrigation controller; and (4) device(s) must be purchased after May 1, 2020 and before June 30, 2022. Rebates are up to \$200 or the cost of the device, whichever is less. Please note that a single household is eligible for up to \$500. Installation costs and sales tax are the customer's responsibility. Rebates will be processed on a first-come, first-serve basis until the grant funds are exhausted or June 30, 2022, whichever occurs first. Rebates will be issued by check.

More information, including the rebate application form, can be found by visiting www.cityoframsey.com/750. Any questions can be directed to City Planner Chris Anderson at 763-433-9817 or canderson@cityoframsey.com.



Irrigation controllers: Save money and water

| Worst | Better | Best |
|-------------------------|--|--|
| Clock-based | Soil moisture sensor | Weather-based "Smart" |
| Waters on set schedule. | Overrides scheduled watering when there is enough soil moisture. | System adjusts watering based on recent and predicted rainfall, evapotranspiration, and more. App-based control. |

Residential soil moisture sensors and smart irrigation controllers cost a couple hundred dollars and can be added to any irrigation system. Water savings for an average home is 15,000 gal/yr¹ or 20-40%². Save money on water, electricity, & pump maintenance. Protect aquifers from drawdown.

¹Source: EPA ²Source: Gardening Know How





Septic system repair & replacement grants

- ✓ Homesteaded single family homes or duplexes in Anoka Co.
- ✓ Must have been inspected and issued a certificate of non-compliance.
- ✓ May NOT be used for tank pumping or other maintenance.
- ✓ Household must meet low income thresholds. Grant covers up to 90% depending on income.
- ✓ Funding is limited and may vary by location. Shoreland areas or projects providing the greatest health and environmental benefits may be preferentially funded.
- ✓ See all program requirements at www.AnokaSWCD.org under “financial assistance.”

Contact Kris Larson at the Anoka Conservation District.
763-434-2030 ext 210 or kris.larson@anokaswcd.org



Appendix D: 2022 Work Results

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Anoka Conservation District installed 10 Streambank Stabilizations and 6 Rain Gardens in 2022 in the LRRWMO. We have included one of each project in the report. For additional information please go to our dashboard at:

<https://www.arcgis.com/apps/Shortlist/index.html?appid=d1e76c3d808743c1b149bde24c990894>

Riverbank Stabilization

PROJECT PROFILE

RUM CENTRAL BOAT LAUNCH AREA

BANK STABILIZATION RAMSEY, MN

Project Summary

The section of Rum Riverbank immediately upstream of the boat launch in Rum Central Regional Park washed out in a 21-year high water event in May, 2022. This 90-foot section of 12-foot tall bank was stabilized with a Flexamat Plus toe, regraded, and vegetated upslope. This project was designed to match 250-feet immediately upstream that was stabilized in 2015. A rock barb was added to direct flow away from the boat ramp itself and to provide additional habitat in the water.

Stabilization of the shoreline will provide reductions in TSS (16.2 tons per year) and TP (13.8 pounds per year) to the Rum River. The project also enhances ~0.1 acre of riparian habitat. Project design, administration, and construction oversight were provided by ACD with engineering assistance from the Washington Conservation District. Construction was done by the Anoka County Parks and Highway departments. The project was funded through a grant from the Outdoor Heritage Fund (OHF) and Anoka County.



Post-Construction October, 2022

| Project Specifications | Project Cost | Project Funding |
|------------------------------------|--|---|
| Date Installed October 2022 | Admin., Design, Engineering and Construction Oversight.... \$14,892.00 | OHF Grant \$31,073.06 |
| Project Length 90 feet | Materials \$14,294.63 | Anoka County Match..... \$7,785.37 |
| Bank Height 12 feet | Construction..... \$10,103.76 | ACD In-Kind Match \$431.95 |
| Habitat Enhanced ~0.1 acre | Total Project Cost \$39,290.39 | Total Project Funding \$39,290.39 |
| TP Reduction 13.8 lbs/year | | |
| TSS Reduction 16.2 tons/year | | |

Project Details



Pre-project conditions consisted of a severely eroded, bare, vertical bank with fallen trees and a threatened roadway and boat launch.



Construction was done during low water conditions with erosion control measures in place to protect the Rum River. The low water minimized underwater disturbance and ensured installation went as specified.

PROJECT PROFILE

203 WASHINGTON STREET RAIN GARDEN ANOKA, MN



Rain Garden



Project Summary

A curb-cut rain garden was constructed at the Bowler residence in summer 2022. The project purpose is to treat stormwater runoff that otherwise drains untreated to the Rum River. The project site was identified in a 2016 City of Anoka Subwatershed Assessment Study and further ranked in comparison to other sites with willing landowners in 2021. The site is approximately 1 block from the Rum River and treats 2.19 acres that have no other stormwater treatment aside from street sweeping. The 251 sq ft basin has a 1.11 ft ponding depth. An underdrain with an AgriDrain water control structure is included as a safeguard allowing basin drawdown if the water table is occasionally high, however the underdrain is anticipated to be in the closed position nearly all the time. The owners will provide project maintenance throughout the project life. Project address: 203 Washington St in Anoka, MN



Project and owner after completion. June 2022.

Project Specs

Date Installed June 2022
 Basin Area (top)151 sq. ft.
 Basin Area (bottom)187 sq. ft.
 Basin Depth.....1.11 ft.
 Acres Area..... 2.19 ac
 Min Project Life.....10 yrs.

Pollutant Reductions

Phosphorus 0.50 lbs/yr (54%)
 Sediment150 lbs/yr (56%)
 Water volume 0.43 Ac-ft/yr (53%)

Project Funding

State Grant* \$20,328.70
 *2021 Rum Watershed Metro Watershed Based Implementation Funding Grant
 Grant matching dollars provided by the Lower Rum River Watershed Management Organization

Project Cost

Construction\$20,328.70
 Design and coordination were provided by the ACD using grant funds.



Location

Constructed Rain Garden

