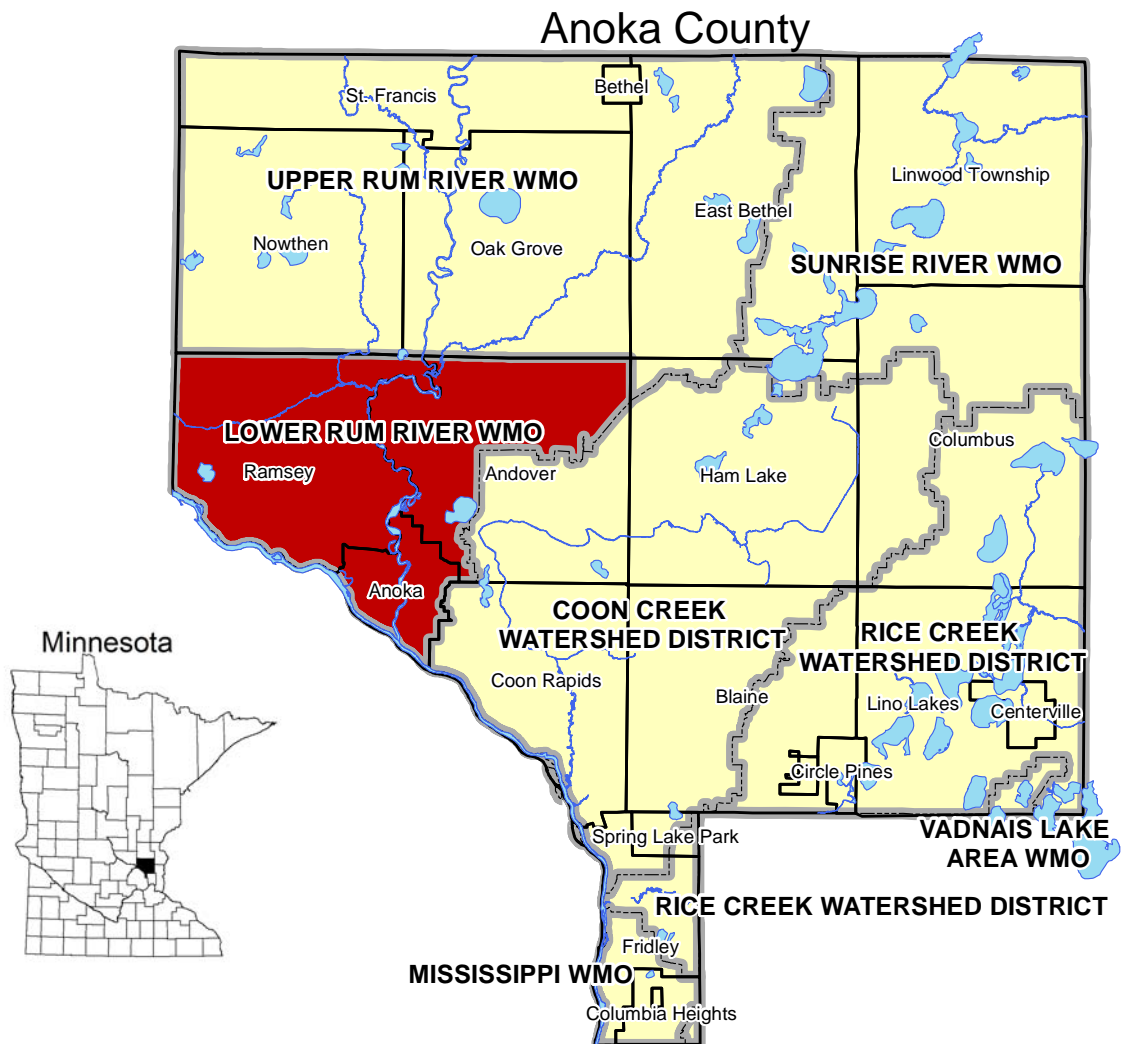


2013 Annual Report

Lower Rum River

Watershed Management Organization

Andover – Anoka – Ramsey



May 7, 2014

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Appendix A: 2013 Financial Report

Appendix B: Implementation of Watershed Management Plan Summary

Appendix C: Newsletter Articles

Appendix D: 2013 Work Results

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 2012 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 the cities of Andover and Coon Rapids. 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 8:30 am at the Anoka City Hall.



Rum River at the Anoka Dam

II. Activity Report

a. Current Board Members

CITY OF ANDOVER

Todd Haas (Chair)
1685 Crosstown Blvd NW
Andover, MN 55034
763.755.5100
t.haas@andovermn.gov

Bruce Perry (Alternate)
17337 Roanoke St NW
Anoka, MN 55304
763.427.4485
bpmpanover@comcast.net

CITY OF ANOKA

Carl Anderson (Treasurer)
2015 1st Ave N
Anoka, MN 55303
763.576.2781
carl.anderson.eng@comcast.net

Jeff Weaver (Alternate)
2015 1st Ave N
Anoka, MN 55303
763.421.5522
angler55303@yahoo.com

CITY OF COON RAPIDS

Ron Manning
11155 Robinson Dr
Coon Rapids, MN 55433
763.767.6493
rmanning@coonrapidsmn.gov

Bruce Sanders (Alternate)
11155 Robinson Dr
Coon Rapids, MN 55433
763.767.6493
bsanders@coonrapidsmn.gov

CITY OF RAMSEY

Mark Kuzma (Vice Chair)
7550 Sunwood Dr NW
Ramsey, MN 55303
763.576.4366
mkuzma@ci.ramsey.mn.us

Randy Backous (Alternate)
7550 Sunwood Dr NW
Ramsey, MN 55303
763.576.4364
rbackous@ci.ramsey.mn.us



b. 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 Water Resource Specialist 1318 McKay Dr NW, #300 Ham Lake, MN 55304 763-434-2030 ext. 12 jamie.schurbon@anokaswcd.org	<ul style="list-style-type: none"> • Water quality and hydrological monitoring, and special studies. • Website maintenance. • Administer the WMO's cost share grant program. • Public outreach. • Assistance preparing annual reports to BWSR. • Assistance reviewing local water plans.
Barr Engineering	Bob Obermeyer Senior Water Resources Engineer 4700 West 77 th St Minneapolis, MN 55435-4803 952-832-2857 bobermeyer@barr.com	<ul style="list-style-type: none"> • Permit reviews. • Technical and engineering guidance. • Assistance reviewing local water plans.
City of Anoka Finance Department	Lori Yager, Finance Director 2015 First Ave North Anoka, MN 55303-2270 763-576-2771 lyager@ci.anoka.mn.us	<ul style="list-style-type: none"> • Deputy Treasurer.
Kennedy & Graven	Charlie LeFevere Attorney 470 Pillsbury Center Minneapolis, MN 55402 612-337-9215 clefevere@kennedy-graven.com	<ul style="list-style-type: none"> • Legal services.
Timesaver Off Site Secretarial Service	Carla Wirth 28601 Hub Dr Madison Lake, MN 56063 612-251-8999 Timesaver02@aol.com	<ul style="list-style-type: none"> • Administrative secretary. • Recording secretary for meetings.

c. Solicitations for Services

Minnesota Statutes 103B.227 require watershed management organizations to solicit bids for professional services at least once every two years. The LRRWMO last solicited proposals in early 2012 for work to occur 2013 and 2014. The request for proposals was posted in the State Register, with closing dates in March 2012. Thereafter, proposals were reviewed and firms selected. Proposals were sought for the following categories of work:

Legal Services

Proposals received: Kennedy and Graven
Flaherty Hood
Selected: Kennedy and Graven
Date of selection: April 19, 2012

3rd Generation Watershed Management Plan Implementation

(water monitoring, public education, annual reporting, etc)

Proposals received: Anoka Conservation District
Selected: Anoka Conservation District
Date of selection: May 17, 2012

Engineering Services, including permit review and WCA TEP Representative

Proposals received: Barr Engineering
Houston Engineering
Stonebrooke Engineering
Emmons and Olivier Resources, Inc.
Selected: Barr Engineering
Date of selection: May 17, 2012

Secretarial Services

Number proposals received: Timesaver Off Site Secretarial
Anoka Conservation District
Selected: Timesaver Off Site Secretarial
Date of selection: April 19, 2012

d. Implementation of Watershed Management Plan

The current LRRWMO Watershed Management Plan was approved by the Minnesota Board of Water and Soil Resources (BWSR) in late 2011 and adopted by the LRRWMO on January 19, 2012. Implementation began that same year. The plan contains a detailed schedule of tasks that the LRRWMO should accomplish each year 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 are planned and completed.

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

Change	Removed Rogers and Sunfish Lake water quality monitoring.
Reason	Sunfish Lake is being monitored by the Anoka Ramsey Community College. Rogers Lake was dropped because the lake is already designated as impaired and efforts should go toward water quality improvement.
Change	Eliminated river water quality monitoring from the top and bottom of the WMO's jurisdictional area.
Reason	MPCA will be conducting monitoring starting in 2013 for the Rum River Watershed Restoration and Protection Project.
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.

e. Status of Local Plan Adoption and Implementation

All LRRWMO member cities have local water plans must be updated for consistency with the LRRWMO Watershed Management Plan, which was adopted in January 2012. These updates are due December 14, 2013. 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	
Local Water Plan Status	<p>The City of Andover has been granted an extension by the LRRWMO to their local water plan deadline because their city is in both the LRRWMO and Coon Creek Watershed District (CCWD), which is presently updating its watershed plan. The extension will allow the city to perform updates needed for both watershed organizations simultaneously.</p> <p>The city has all of the ordinances required by the LRRWMO, except a floodplain ordinance. A floodplain ordinance revision is being intentionally delayed because Anoka County is revising their flood maps. The ordinance must adopt the maps, so it is prudent to update the ordinance only after the maps are complete.</p>
Submitted 2013 annual report to LRRWMO?	No
Some Recent Implementation Accomplishments	<ul style="list-style-type: none"> • Street sweeping completed annually. • Water control structures and stormwater treatment basins are inspected every five years. • In 2012 purchased open space, Martin's Meadows. Efforts underway include prairie establishment, buckthorn control, and scenic overlook site stabilization. • In 2012 reached 3,300 households repeatedly with multiple public education efforts including newsletter articles, brochures available at city hall, local television announcements about water quality, and similar information at the North Suburban Home Show. Topics have included lawn care, adopt-a-park, picking up pet waste, wetland protection BMPs, controlling invasive species, water conservation, and yard waste management.

- During a 2012 street reconstruction additional stormwater treatment was added, including weirs and sumps.
- Andover is actively inspecting its outfalls into the Rum River and other public waters. Records are maintained in Geomoose software.
- Periodic inspections of active developments to ensure adequate erosion and sediment controls are in place.
- Habitat improvement projects such as Kelsey Round Lake Park are ongoing.

City of Anoka

Local Water Plan Status The City of Anoka submitted a draft local water plan to the LRRWMO in early 2014 and is making revisions. The city has all of the ordinances required by the LRRWMO, and will review them for consistency.

Submitted 2013 annual report to LRRWMO? No

Some Recent Implementation Accomplishments

- Street sweeping the city three times annually and the downtown weekly in season.
- Inspected water level controls annually and basins bi-annually.
- In 2012 cleaned three of five stormwater separators, generating 20 cy of material.
- In 2012 cleaned one stormwater pond, generating 100 cy of disposed material.
- In 2012 installed one Vortec separator and one sump with screen.
- Reach 7,500 households with a newsletter article about yard waste disposal, brochure about phosphorus, and others about water conservation and hazardous waste disposal.
- Wellhead protection efforts including education about hazardous waste.
- Identify and address stormwater issues during each roadway project.

City of Coon Rapids

Local Water Plan Status The City of Coon Rapids successfully petitioned to have portions of their city in the LRRWMO incorporated into the CCWD, and therefore is no longer a part of the LRRWMO.

City of Ramsey

Local Water Plan Status The City of Ramsey has a local watershed plan revision underway, and anticipates submitting it to the LRRWMO for review in spring 2014.

Ramsey has all of the ordinances required by the LRRWMO except that it has delayed adoption of stormwater standards to included new MS4 ordinance requirements.

Submitted 2013 annual report to LRRWMO? Yes

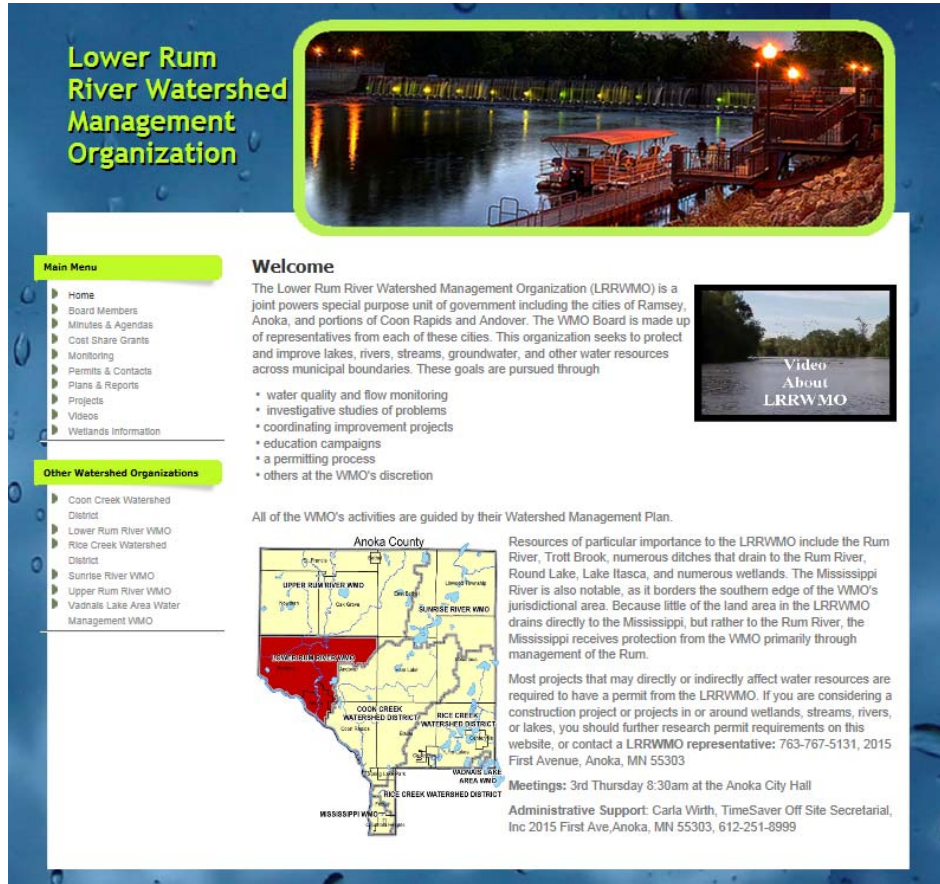
Some Recent Implementation Accomplishments

- Annual street sweeping.
- Implementing a five year plan for inspecting stormwater ponds.
- Reached 8,900 households in 2013 with newsletters about wetland protection and water conservation. This has included public service announcements about stormwater topics, an annual business and environmental expo and others.
- Held an annual environmental expo community event.

f. 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. In 2013 the website was overhauled.



- **Web videos** – To bolster the content of the website the LRRWMO creates web videos. They include:
 - 2012 About the LRRWMO
 - 2013-14 Water conservation
 - 2014 Wetland regulation, correcting riverbank erosion
- **Newsletter articles** – Articles are published by each of the member cities and printed in their newsletters. Copies of several of these articles are provided in **Appendix C**.
- **Public officials meetings** – In 2013 the LRRWMO hosted a dinner meeting for local officials. The purpose is to ensure elected officials understand the role of the WMO and discuss upcoming projects. Such a meeting was last held in 2008.

- **Bi-annual river float with city officials and staff** – Every other year the WMO Board, along with city staff and officials, floats the Rum 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 fall 2013.
- **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. It includes on-line resources, property owner packets, newsletters, signage near public wetlands, elected officials workshops, and local events exhibits.

In 2013 the LRRWMO produced a map about wetland regulation mailed to over 2,000 landowners who own land with or adjacent to wetlands. Each brochure included a custom neighborhood level map.

We also created a one-stop shop of wetland regulatory information website in 2013. This was done on the Anoka Conservation District's website so it could serve parts of our communities that are not in the LRRWMO, as well as surrounding areas.

g. Permits, Variances, and Enforcement Actions

The LRRWMO's 2013 permit activity is summarized in the table below.

Permit Name	Permit #	City	Summary
Seasons of Ramsey	2012-19	Ramsey	Replat of a portion of Town Center Garden, 3 rd Addition. 5-acre site with 52 multi-family units proposed. Storm water management meeting LRRWMO requirements provided within an existing depression area located at 147 th Lane NW and Rhinestone Street NW – Project was approved.
King's Island Trail	2013-01	Anoka	10-foot wide trail connecting the Mississippi River Regional Trail between Anoka's Mississippi River Community Park and the Mississippi Regional Park in Ramsey. 0.60 acres of Type 1 floodplain forest wetland impacts proposed. Mitigation at a 2:1 ratio from a wetland bank. Surface water runoff from the trail directed to several areas that provide rate control, volume reduction and water quality management. Project was approved.
Round Lake Commons	2013-02	Anoka	1.3-acre commercial project located west of Round Lake Boulevard between 133 rd Avenue NW and Meadowood Trail. Storm water management provided within two surface infiltration basins and underground perforated storm sewer pipe. Project was approved.
North Pine Aggregate	2013-03	Andover	Mining of approximately 60,000 cubic yards of sand at Bunker lake Boulevard and County Road 7. Erosion Control plan submitted. Project was approved.
Swanson Driveway	2013-04	Andover	Driveway construction that will impact 2,250 square feet of Type 2 wetland. ACD determined project meets the de minimus threshold of 8420.0420 Subp 8, section 2. LRRWMO approved de minimus exemption.
Riverdale Drive Reconstruction	2013-05	Ramsey	Roadway reconstruction, submittal incomplete.
Rum River Heights	2013-06	Anoka	44-lot 28-acre single-family residential located between North 7 th Avenue and the Rum River, just north of Bunker Lake Boulevard. Storm water management provided within 7 basins within the site. Anoka is the MS4 permit holder for a new proposed discharge of storm water to the Rum River, designated as a Scenic and Recreational River regulated by Minnesota Wild and Scenic River Rules.

Continued on the following page

Permit Name	Permit #	City	Summary
Crooked lake to Enterprise Park Transmission Line	2013-07	Anoka/Ramsey	Construction of a 115-kV transmission line from the Crooked Lake substation in Coon Rapids to the existing Enterprise Park substation in Anoka. WCA exemption request submitted and approved by the LRRWMO acting as the LGU administering WCA in Anoka and Ramsey.
Diamond Graphics Building Addition	2013-08	Ramsey	28,000 square foot building addition located at 14350 Azurite Street. Volume reduction not applicable because <50% of the project area is disturbed. Rate Control and water quality management provided in an existing downstream regional basin. Project was approved.
King's Island Channel Restoration	2013-09	Anoka	No-loss determination request for temporary wetland impacts resulting from site access. Work proposed below OHW, regulated by MDNR and Army Corps of Engineers.
Brookfield 4th Addition	2013-10	Ramsey	77-lot, 59-acre residential subdivision locate in the southeast quadrant of 170 th Trail NW and Limonite Street NW. Storm water management provided within an existing basin constructed in 2007 as part of the initial project. Project was approved.
Oakwood Acres	2013-11	Ramsey	3-lot residential subdivision located in the southeast quadrant of 167 th Avenue NW and Jasper. Project disturbs less than one acre therefore a permit from the LRRWMO is not required.
County Oaks North	2013-12	Andover	64-lot, 40-acre single-family residential subdivision located north of 161 st Avenue NW and approximately ¾ mile east of Hanson Boulevard. Wetland delineation report approved by the LRRWMO.
Stoney River Addition	2013-13	Ramsey	Project was approved in 2011, has not commenced and the plans have not changed. New permit for project approved.
Armstrong Boulevard Trail Extension	2013-14	Ramsey	10-foot wide bituminous trail constructed along Armstrong Boulevard from Alpine Drive NW to 161 st Avenue NW. Storm water management to be provided within the drainage way along the trail alignment. Project was approved.

Continued on the following page

Permit Name	Permit #	City	Summary
Diehl Acres	2013-15	Ramsey	Subdivision of a 9.1-acre lot into two single family residential lots. Low floor elevation of the proposed structure 2 feet above the 100-year flood elevation of County Ditch 14. De minimus exemption for filling associated with driveway crossing of County Ditch 14 and wetland delineation approved. Project was approved.
Main Motors	2013-17	Anoka	Building additions and parking lot expansion and improvement at Main Motors located at 435 West Main Street. On-site basin to provide storm water management. Atlas 14 precipitation totals used for calculating 100-year frequency flood elevation of basin. Two feet of freeboard is provided between the finished floor elevation of the existing and proposed building additions and the flood elevation of the basin. Project was approved.

h. Status of Locally Adopted Wetland Banking Program

- The LRRWMO, in July of 1992, approved a mitigation policy whereby Anoka County will be allowed to accrue up to one acre of wetland losses; at which time that entity would be required to replace the total accrued lost wetland acreage. However, a ranking system for providing wetland area greater than required is pending.
- One developer, Russell Johanson, has qualified and banked approximately 0.6864 acres of excess wetland. A certain amount of those banked credits have been purchased by an adjacent property owner.
- The LRRWMO, on July 17, 2008, accepted the recommendation of TEP on certification of the Alpine Park wetland bank for the maximum amount allowable by BWSR (0.38 acres of new wetland credit and 0.38 acres of upland buffer) and ACOE (0.38 acres of wetland credit and 0.50 acres of upland buffer).
- The LRRWMO, on February 18, 2010, accepted the recommendation of TEP to approve the optional purchase of 5,360 square feet of wetland replacement credits to satisfy the wetland replacement mitigation requirements for Permit #2004-25, Kimberly Oaks, in Andover. Approval was subject to the conditions that a minimum of 5,360 square feet of wetland replacement credit must be purchased from a state-certified wetland bank within Anoka County; and, proof of that wetland bank credit purchase must be provided by April 15, 2010.

i. 2014 Work Plan

Planned 2014 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 Lake	\$800
Lake Water Quality Monitoring	To detect water quality trends and diagnose the cause of changes.	May through September lake water quality monitoring through the MPCA's volunteer monitoring program. Sunfish Lake is monitored by Anoka Ramsey Community College. The Anoka Conservation District is hired to monitor Round Lake.	Sunfish Lake Round Lake	\$1,300
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	\$825

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. It is useful for regulatory determinations (for example, is a dry area actually a wetland, or are all wetlands dry right now?) and resolving water level disputes. Each reference wetland has been monitored for more than 10 years, providing a long term record.	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	\$1,725
Stream Hydrology Monitoring	To allow loading calculations from water chemistry monitoring that is ongoing.	In 2014 Trott Brook is being monitored by the state as part of the Rum River WRAP project. The stream has a known problem of low dissolved oxygen. The LRRWMO is contributing hydrology monitoring to the problem diagnosis effort.	Trott Brook at County Road 5	\$600
LRRWMO Website	To increase awareness of the URRWMO 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 URRWMO's 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	\$440
Promotion of Water Quality Improvement Projects	To increase awareness of the LRRWMO and its programs, as well as educate the public on water quality issues.	In 2014 a web video about correcting riverbank erosion will be produced and posted to the LRRWMO website.	Watershed-wide	\$1,500
Wetland Public Education	To increase public awareness of wetland values and regulation.	In 2014: 1. Web video. 2. City newsletter articles	Watershed-wide	\$2,620
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 WMO'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

Task	Purpose	Description	Locations or Action	Cost
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 up to 70% cost sharing of the materials needed for a water quality improvement project. Typical projects include erosion correction, lakeshore restoration, and rain gardens. The Anoka Conservation District provides administration.	Offer grants	\$2,050
Review Member City Local Water Plans	To ensure consistency between the WMO plan and city plans.	The WMO will continue reviewing each city's local water plan for consistency with the 3 rd Generation LRRWMO plan, and provide approval. Deadline is December 14, 2013.	Watershed-wide	\$2,000 (pd in previous year)
Joint Powers Agreement Update	To guide operation of the WMO.	As of 2013, Coon Rapids is no longer a LRRWMO member. The JPA will be updated to reflect this change and other operational updates the WMO wishes.	Watershed-wide	by WMO board
Solicit Bids	To ensure competitive pricing is secured for WMO professional services.	The LRRWMO will conduct the required every-other-year soliciting for professional services.	Watershed-wide	by WMO board

The LRRWMO deviated from its watershed management plan for 2014 in the following ways:

Change Reason Removed Trott Brook stream water quality monitoring. The MPCA is monitoring this site in 2013.

Change Reason Did not monitor groundwater levels or trends. Groundwater monitoring is best done at a regional level. The MN DNR has taken the lead.

Change Reason Establishment of a grant matching fund has not begun. The WMO has sufficient cash reserves to match grants if it wishes.

III. Financial and Audit Report

a. 2013 Financial Summary

See Appendix A.

b. Fund Balances

See Appendix A.

c. Financial Audit Documentation

An annual financial report is complete. That report is Appendix A.

The WMO understands that BWSR is revising MN Rules 8410 to require audits for WMOs with annual expenditures <\$150,000 once every five years. The LRRWMO anticipates this rule revision, and plans on that timeline.

d. 2014 Budget

At its January 16, 2014 meeting the LRRWMO Board approved the 2014 budget shown below.

RESOLUTION # 2014-01

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

The budget for the LRRWMO the year 2014 is hereby approved and adopted with appropriations for each of the various activities as follows:

REVENUE:

Assessments	
Andover	\$ 20,985
Anoka	\$ 16,322
Ramsey	\$ 37,693
	<u>\$ 75,000</u>
Permits	\$ 25,000
Interest earnings	\$ 100
TOTAL REVENUES	<u>\$ 100,100</u>

EXPENDITURES:

Engineering	\$ 5,000
Permit Review	\$ 20,000
Legal	\$ 4,350
Financial Services	\$ 2,400
Secretarial Services	\$ 6,600
Postage, Copying, etc.	\$ 1,500
Insurance	\$ 2,300
Promotion of WQ Projects/Education	\$ 1,200
Web Site Maintenance & Education	\$ 3,060
Report to BWSR - Annual Report	\$ 850
Grant funding	\$ 2,000
Lake & Ground Water Level Monitoring	\$ 2,300
Lake, River & Stream quality monitoring	\$ 4,800
Stream Hydrology, rating & biomonitoring	\$ 1,425
Wetland Hydrology monitoring	\$ 1,725
Review city local water plans for compliance	\$ 2,000
Anoka Dam Assessment	\$ 2,500
LRRWMO Plan update/reserve	\$ 25,000
Miscellaneous	<u>\$ 2,500</u>
TOTAL	<u>\$ 91,510</u>

NET INCOME \$ 8,590

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Appendix A: 2013 Financial Report

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LOWER RUM RIVER WATER MANGEMENT ORGANIZATION

ANNUAL FINANCIAL REPORT

For the year ended January 31, 2014

Prepared by the Deputy Treasurer

Lori Yager

With assistance from Pam Richer, Finance Account Clerk

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION

Annual Financial Report

Year ended January 31, 2014

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Lower Rum River Water Management Organization Board

Appointed Officials

January 31, 2014

Todd Haas, Chair

Mark Kuzma, Vice Chair

Carl Anderson, Secretary and
Treasurer

Administrative Staff

Carla Wirth
Lori Yager

Administrative Secretary
Deputy Treasurer

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
BALANCE SHEET
JANUARY 31, 2014

Assets

Current assets:

Cash and investments	\$ 81,544
Accounts receivable	3,121
Due from other governments	1,072
Total current assets	<u>85,737</u>

Liabilities

Current liabilities:

Accounts payable	5,359
Deposits	35,523
Total current liabilities	<u>40,882</u>

Net Assets

Unrestricted	<u>44,855</u>
Total liabilities and net assets	<u>\$ 85,737</u>

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION

STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET ASSETS BUDGETARY COMPARISON SCHEDULE

YEAR ENDED JANUARY 31, 2014

	Final Budget	Actual	Variance from Budget Positive (Negative)
Operating Revenues			
Assessments from participating cities	\$ 50,000	\$ 50,000	\$ -
Permits			
Service fees	2,000	1,700	(300)
Engineering fees	18,000	15,086	(2,914)
Intergovernmental	-	1,072	1,072
Miscellaneous	-	1	1
Total revenues	70,000	67,859	(3,214)
Operating Expenses			
Engineering Fees:			
Permits	16,000	15,086	914
3rd Generation Management Plan	-	123	(123)
Administrative	3,500	2,339	1,161
Legal and professional fees	6,750	4,887	1,863
Insurance	2,300	1,757	543
Secretarial services and supplies	8,500	8,513	(13)
Projects	27,490	20,895	6,595
Other	3,000	776	2,224
Total expenditures	67,540	54,376	13,164
Operating income (loss)	2,460	13,483	9,950
Nonoperating revenues:			
Interest income	100	26	(74)
Change in net assets	\$ 2,560	13,509	\$ 9,950
Net assets at beginning of year		31,346	
Net assets at end of year		\$ 44,855	

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION

STATEMENT OF CASH FLOWS YEAR ENDED JANUARY 31, 2014

Cash flows from operating activities:	
Received from member cities	\$ 50,000
Received from customers	19,808
Received from other governments	-
Payments to suppliers for goods and services	(51,418)
	(51,418)
Net cash provided by (used in) operating activities	18,390
	18,390
Cash flows from investing activities:	
Investment earnings	26
	26
Net increase in cash and investments	18,416
Cash and cash equivalents at beginning of year	63,128
	63,128
Cash and cash equivalents at end of year	\$ 81,544
	81,544
Reconciliation of operating income (loss) to net cash provided (used) by operating activities:	
Operating gain	\$ 13,509
Change in assets and liabilities:	
Accounts receivable	857
Due from other governmental units	(1,072)
Accounts payable	2,958
Deposits	2,164
Total adjustments	4,907
	4,907
Net cash provided by operating activities	\$ 18,416
	18,416

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION

NOTES TO FINANCIAL STATEMENTS

JANUARY 31, 2014

1. NATURE OF THE ORGANIZATION

The Organization is a watershed management organization which has been created to fulfill the requirements and purposes of Minnesota Statutes 103B.201 to 103B.251. The purpose of such an organization as defined by Minnesota Statutes 103B.201 is to “protect, preserve and use natural surface and ground water storage and retention systems in order to (a) reduce to the greatest practical extent the public capital expenditures necessary to control excessive volumes and rate of runoff, (b) protect and improve surface and ground water quality, (c) prevent flooding and erosion from surface flows, (d) promote ground water recharge, (e) protect and enhance fish and wildlife habitat and water recreational facilities, and (f) secure the other benefits associated with the proper management of surface and ground water.”

The cities of Andover, Anoka, Coon Rapids and Ramsey formed the Organization by executing a joint powers agreement in accordance with Minnesota Statute 103B.211 dated July 15, 1985.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The accompanying summary of significant accounting policies is presented to assist the reader in understanding the Organization’s financial statements. The financial statements are representations of the Organization’s Board which is responsible for their integrity and objectivity. The following is a summary of the more significant accounting policies:

A. Measurement Focus, Basis of Accounting, and Financial Statement Presentation

The financial statements are reported using the “economic resources” measurement focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of the related cash flows. Grants and similar items are recognized as revenue as soon as all eligibility requirements imposed by the provider have been met.

Private-sector standards of accounting and financial reporting issued prior to December 1, 1989, generally are followed in both the government-wide and proprietary fund financial statements to the extent that those standards do not conflict with or contradict guidance of the Governmental Accounting Standards Board. Governments also have the option of following subsequent private-sector guidance for their business-type activities and enterprise funds, subject to this same limitation. The Organization has elected not to follow subsequent private-sector guidance.

Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with the principal ongoing operations. The principal operating revenue of the Organization are charges to customers for permits. Operating expenses for the Organization include engineering services, administrative expenses and related river, stream and wetland monitoring, conservation and compliance expenses. All revenues and expenses not meeting this definition are reported as nonoperating revenues and expenses.

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION

NOTES TO FINANCIAL STATEMENTS

JANUARY 31, 2014

B. Cash and cash equivalents

Cash balances are invested to the maximum extent possible. For the purposes of the statement of cash flows, the Organization considers all highly liquid investments with a maturity of three months or less when purchased to be “cash equivalents”.

C. Income taxes

As a joint powers watershed management organization, the Organization is exempt from both Federal and Minnesota income taxes. Accordingly, no provision for income taxes is included in these financial statements.

D. Receivables and Payables

Receivables represent outstanding reimbursements from permit holders for work already completed and paid for by the Organization. Payables are recorded for services completed for the Organization but unpaid as of the end of the current fiscal year. Deposits represent amounts owed to permit holders at year end for services yet to be done.

3. CASH AND INVESTMENTS

The Organization follows State Statute guidelines for investment purposes. The State Statute allows for investments in United States securities, state and local government general obligation securities rated “A” or better by a national bond rating agency, state and local government revenue securities rated “AA” or better by a national bond rating agency, commercial paper rated in the highest quality category by two national rating agencies and that mature in 270 days or less, certificates of deposit, bankers acceptance and repurchase agreements.

(a) Interest Rate Risk

Interest rate risk is the risk that the fair value of investments will be adversely affected by a change in interest rates. The Organization does not have a formal investment policy related to interest rate risk. As of January 31, 2014 the Organization had the following investments and maturities:

Investment type:	<u>Fair Value</u>	<u>Less than one year</u>
Money Market Account	\$ 81,544	\$81,544

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION

NOTES TO FINANCIAL STATEMENTS

JANUARY 31, 2014

3. CASH AND INVESTMENTS (continued)

(b) Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. Credit risk is measured using credit quality ratings of investments in debt securities as described by nationally recognized rating agencies such as Standard & Poor's and Moody's.

The following table lists the credit quality ratings per Moody's and/or Standard and Poor's of the Organization's investments as of January 31, 2014:

Investment type:	<u>Fair Value</u>	<u>Unrated</u>
Money Market Account	\$ 81,544	\$81,544

(c) Custodial Credit Risk

Custodial credit risk is the risk that, in the event of the failure of a counterparty, the Organization will not be able to recover the value of the investments, collateral securities, or deposits that are in the possession of the counterparty. The Organization does not have a formal policy related to custodial credit risk of investments or deposits. At January 31, 2014 all of the Organization's investments are insured and registered, and are held by the counterparty's agent in the Organization's name.

4. REVENUES

Assessments from participating cities:

Member cities are assessed on an annual basis for estimated Organization costs by motion of the Organization's Governing Board. Administrative and planning costs are apportioned by a formula taking into account both valuation and gross area equally. Projects and improvement costs are charged to the benefiting properties by a formula adopted by the Organization's Governing Board. Member city assessments for administrative and planning costs were as follow:

	Year Ended January 31,
	<u>2014</u>
Andover	\$13,578
Anoka	10,815
Coon Rapids	918
Ramsey	<u>24,689</u>
	<u>\$50,000</u>

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION

NOTES TO FINANCIAL STATEMENTS

JANUARY 31, 2014

4. REVENUES (continued)

Permits:

The Organization issues permits for construction to cover the costs associated with the review of grading, drainage and erosion control plans of the projects to improve overall water quality. The Organization earns \$100 for administrative costs for each permit it processes. A deposit is received upon application of the permit which is used to cover the administration costs and all professional services incurred to complete the permit process. Any remaining deposit excess is refunded upon issuance of the permit.

5. RISK MANAGEMENT

The Organization participates in a public entity risk pool to mitigate its exposure to these risks. Liability coverage's are provided through a pooled self-insurance plan with other cities. The Organization has a \$250 deductible per occurrence for its coverage.

Appendix B: Implementation of Watershed Management Plan Summary

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Lower Rum River Watershed Management Organization Task Checklist

Key to Symbols

X = Task completed Empty box = task planned but not yet completed Black box = Task not planned for that entity or at that time.

EDUCATION	2013						2014					2015					2016					2017					2018					2019					2020					2021						
	ACD	Andover	Anoka	Coon Rapids	LRRWMO	Ramsey	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	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																																																
a. Newsletter - Distribution of education material biannually, fostering water quality management practices in Community newsletters, specifically addressing wetland regulation from time to time.	WMO hires ACD to write newsltr articles that cities print																																															
“X” when completed -- April	X	X	X	X	X	X	X	X	X																																							
“X” when completed -- August	X	X	X	X	X	X																																										
b. Website - Maintain and expand the WMO website for water resource management. In 2013 add wetland regulatory info. The WMO website will be linked to the Cities’ websites.	Website overhauled.						Addition of wtld regulatory info on website																																									
“X” when completed	X	X	X	X	X	X																																										
c. Volunteer Monitoring - Solicit volunteers for water quality monitoring – Citizen Assisted Monitoring Program (CAMP)	Done- comm. College monitoring Sunfish Lk																																															
“X” when completed	X				X																																											
d. City Local Water Plan Education Program - Member communities shall develop a public education program as part of their local plan development. May include newsltrs, door hangers, catch basin stenciling, cable TV, etc																																																
“X” when completed		X	X			X																																										
e. Wetland Education - Develop a general information packet and neighborhood specific information regarding water resource management, including wetlands.	Completed by ACD for WMO																																															
“X” when completed	X			X			X				X																																					
e. Continued Wetland Education - Continue the distribution of the information packet to new property owners through the Cities’ new resident packet information																																																
“X” when completed																																																

Lower Rum River Watershed Management Organization Task Checklist

EDUCATION	2013						2014						2015						2016						2017						2018						2019						2020						2021																	
	ACD	Andover	Anoka	Coon Rapids	LRRWMO	Ramsey	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	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																																																																		
f. Wetland Ed Signage - Design up to 30 wetland interpretive signs to educate the general public about the function and value of wetlands. WMO makes signs, cities post them in public areas adjacent to wetlands, preferably along trails.																																																																		
"X" when completed																																																																		
g. Local Officials Workshop - Conduct local official workshops for elected and appointed officials. Should specifically include info about wetland regulation.	Spring LRRWMO dinner mtg																																																																	
"X" when completed							X																																																											
Hi. Local Events Exhibit - design - Design and develop informational materials or display for local events exhibit to educate the public about function and values of wetlands, wetland regulations.																																																																		
"X" when completed																																																																		
h.ii Local Events Exhibit - display - Display the information created in the task above at local events such as home shows, city environmental events, etc																																																																		
"X" when completed																																																																		

Lower Rum River Watershed Management Organization Task Checklist

PLANNING, REPORTING AND ADMIN	2013						2014						2015						2016						2017						2018						2019						2020						2021					
	ACD	Andover	Anoka	Coon Rapids	LRRWMO	Ramsey	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	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																																																						
a. City Reports to WMO - Member communities shall submit an annual status report by January 1 that describes the status of local plans and implementation of LRRWMO policies							2013 rpt from cities requested 1/2014																																															
"X" when completed	X	X	X		X																																																	
b. Annual Reporting to State. Submit annual reports to BWSR and the State Auditor.	ACD was hired to prepare reports for WMO																																																					
"X" when completed	X				X																																																	
c. LRRWMO Plan Update – 4 th Generation Plan																																																						
"X" when completed																																																						
d. City Local Water Plans - Member communities shall update their local water resource management plans to be consistent with the WMO plan. WMO must review and approve local plans.	CR left WMO. Andover given extension, Ramsey underway						Anoka plan drafted, reviewed, revision underway																																															
"X" when completed																																																						
e. WMO Plan Review - LRRWMO will annually review its Watershed Management Plan to ensure it reflects current goals																																																						
"X" when completed				X																																																		
f. JPA - Update LRRWMO Joint Powers Agreement, which expires 1/1/2015	JPA revision underway																																																					
"X" when completed																																																						
g. Solicit Bids - LRRWMO will solicit bids for professional services (solicit proposals for work to occur in the following year)																																																						
"X" when completed																																																						

Lower Rum River Watershed Management Organization Task Checklist

WATER MONITORING AND IMPROVEMENT	2013					2014					2015					2016					2017					2018					2019					2020					2021						
	ACD	Andover	Anoka	Coon Rapids	LRRWMO	Ramsey	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO
Task																																															
a. Volunteer Monitoring - Solicit volunteers for water quality monitoring – Citizen Assisted Monitoring Program (CAMP)	Done- comm. College monitoring Sunfish Lk																																														
“X” when completed	X			X																																											
b. Professional Water Monitoring - LRRWMO will work with the ACD with water quantity and quality programs. See separate sheet of planned LRRWMO monitoring and/or table 9 in watershed plan.	On track with monitoring plan.					On track with monitoring plan. Deleted some sites being monitored by MPCA.																																									
“X” when completed	X			X																																											
c. Anoka Dam - LRRWMO will work with member cities in the maintenance and control of the Rum River Dam																																															
“X” when completed		X	X		X	X																																									
d. Groundwater - LRRWMO will develop and implement a plan to track groundwater levels	Task is better done by regional entities. No WMO action.																																														
“X” when completed					X						X																																				
e. Grant Matching Fund - LRRWMO will develop/build a fund to match future grants for projects																																															
“X” when completed																																															

Lower Rum River Watershed Management Organization Task Checklist

REGULATION	2013						2014						2015						2016						2017						2018						2019						2020						2021					
	ACD	Andover	Anoka	Coon Rapids	LRRWMO	Ramsey	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	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																																																						
a. City Wetland Protection BMPs - Member communities shall develop and implement wetland protection BMPs included in local Water Resource Plan. Should be consistent with WMO wetland standards																																																						
“X” when completed																																																						
b. City Erosion Ordinance -Member communities shall adopt an erosion control ordinance							Coon Rapids is done (T. Haas 9/6/13)																																															
“X” when completed				X																																																		
c. City Floodplain Ordinance - Member communities shall adopt, at a minimum, floodplain ordinances conforming to MN Rules 6120.5000							Coon Rapids is done (T. Haas 9/6/13).	Anoka Co is updating their floodplain maps. Cities have been advised to delay ordinance revision until this is complete. Then, the ordinance revision will include adopting new maps.																																														
“X” when completed				X																																																		

Appendix C: Newsletter Articles

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City of Anoka Newsletter

Spring 2013

Lower Rum River Water Management Organization

The Lower Rum River Water Management Organization (LRRWMO), which includes all of Anoka and Ramsey, and portions of Andover and Coon Rapids, is an organization that seeks to improve and protect lakes, rivers, streams, groundwater and other water sources across municipal boundaries. The LRRWMO member communities are located on the Anoka Sand Plain which is dominated by mostly sandy soils. Sandy soils have low water holding capacity, so water used to irrigate yards moves down through soil and out of the root zone area quickly. Summer lawn watering, especially on sandy soils, increases the amount of water used per day.

As populations continue to grow in the member communities, the demand for water will also grow. Cumulatively, the population of the member communities of the LRRWMO is forecasted to increase by roughly 13,000 people by the year 2020, putting tremendous pressure on the groundwater supply, or aquifer. As demand for water continues to rise, the aquifer, our current source of drinking water, will be depleted more and more. While groundwater is replenished by precipitation, activities such as pumping (wells) and increasing impervious surfaces (roads, rooftops, driveways, etc.) alter recharge rates and potentially diminish the recharge of aquifers. Continued depletion of the aquifers could result in the need for communities to explore alternative options for water, such as drawing from the Mississippi River, which would require the construction of a water treatment facility.

Here are some quick and easy ideas to reduce water use inside and outside:

- When upgrading appliances, consider air-cooled air conditioners, refrigerators, etc.
- Upgrade older toilets with low-flush (low-flow) models. If the toilet is older than 1995, retrofit it with a tank-based displacement device.
- Check with the City to see about getting FREE dye strips. Put them in your toilet to check for leaks into the toilet bowl. Plus, fix that leaky faucet. All those drips add up.
- Insulate hot water pipes for more immediate hot water at the faucet and for energy savings.
- Turn off the faucet while brushing your teeth or shaving.
- Use a broom rather than a hose to clean your driveway or sidewalk between rain showers. Sweep the dirt and spread over your lawn or put in the trash. This will conserve water and keep the dirt from entering storm sewers and catch basins.
- Set a sprinkler timer to shut off your sprinkler after a set amount of time.
- Put the water from your downspout to good use by catching it in a mosquito-proof rain barrel. Plains love rainwater because it doesn't contain chlorine and is warmer than tap water.

Summer 2013

Lower Rum River Watershed Management Organization

Frogs Mark the Spot



As projects get into full swing, listen for frogs to help direct your work. For the industrious human, frog calls mean "watch out, this is a wetland right here." And, knowing the location of wetlands is important because some activities within wetlands are regulated, even on private lands. Not all wetlands are permanently flooded.

Fall 2013

Lower Rum River Water Management Organization



The Lower Rum River Water Management Organization meets the third Thursday of each month at 8:30 a.m. in the committee room at Anoka City Hall to discuss storm and surface water issues. The public is welcome to attend.

Stay out of Hot Water around Wetlands

As warm weather comes so do questions about wetlands. Outdoor projects in and around wetlands can get the owner into "hot water" if proper permits are not obtained. The laws are complex. And "I didn't know" is not an acceptable excuse. For help does exist...for free! Your local watershed organization and the Anoka Conservation District can be your guide.

Wetlands are areas in the landscape that naturally have saturated soils or standing water. Some wetlands rarely have standing water. These seasonal wetlands have a high water table in the spring and then dry out later in the year. Along with the presence of water, soils and vegetation are also used to define legal wetland boundaries. Professional wetland delineations determine the wetland boundary. The water's edge is not necessarily the same as a wetland boundary.

Filling, draining, excavating, or building within a wetland boundary are all regulated.

Unauthorized work within wetlands may result in a Restoration Order, a legal order to put the wetland back the way it was, often at substantial expense to the landowner/violator.

Recognizing the complexity of the wetland laws, local communities provide experts to guide landowners to help keep them out of "hot water." So, before starting a project around a wetland, contact the Lower Rum River Watershed Management Organization at 763-767-5131, visit www.lrrwmo.org, or call the Anoka Conservation District at 763-434-2030 or visit www.anokacd.org.

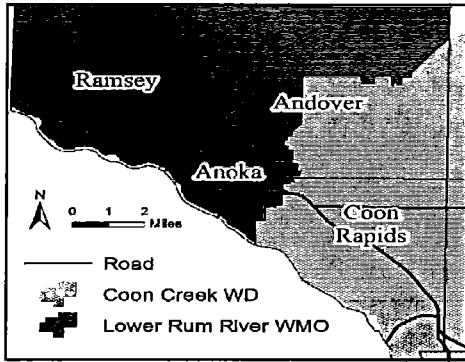
Winter 2013

Lower Rum River

The Lower Rum River Water Management Organization meets the third Thursday of each month at 8:30 a.m. at Anoka City Hall in the Committee Room to discuss storm and surface water issues. The public is welcome to attend.



FROGS MARK THE SPOT



Lower Rum River Watershed
 Management Organization
www.anokanaturalresources.com/lrrwmo
 Phone: (763) 767-5131

Coon Creek Watershed District
www.cooncreekwd.org
 Phone: (763) 755-0975

Anoka Conservation District
www.anokaswcd.org
 Phone: (763) 434-2030

As projects get into full swing, listen for frogs to help direct your work. For the industrious human, frog calls mean “watch out, this is a wetland right here.” And, knowing the location of wetlands is important because some activities within wetlands are regulated, even on private lands.

Not all wetlands are permanently flooded. Many may be wet only a few weeks per year, which is enough for the frogs... and the law. If you have a low spot on your property that harbors frogs, even if only briefly, this area may be a wetland. And the legal wetland boundary is probably higher on the landscape than you think—it’s defined by soils, vegetation, and hydrology.

*Wetlands cover about 20% of Anoka County,
 nearly twice as much as any county
 in the 7-county metro area.*

Wetlands are so valuable to wildlife and water quality that federal, state, and local rules exist. So, before starting any project around a wetland, contact your local watershed organization or the Anoka Conservation District, they will be happy to help you.

2013 ANDOVER STREET CONSTRUCTION PROJECTS

173rd Lane / Heather Street / 174th Lane Gravel Road Paving

This project is located east of Round Lake Boulevard in the north part of the City (see map). This project includes paving existing gravel streets, a soil correction, concrete curb and gutter, and storm sewer improvements to address drainage issues in this area. The City Council approved a 50 / 50 cost split between the neighborhood and the City to fund this project. Construction is expected to begin in early May.

2013 Street Reconstruction Program

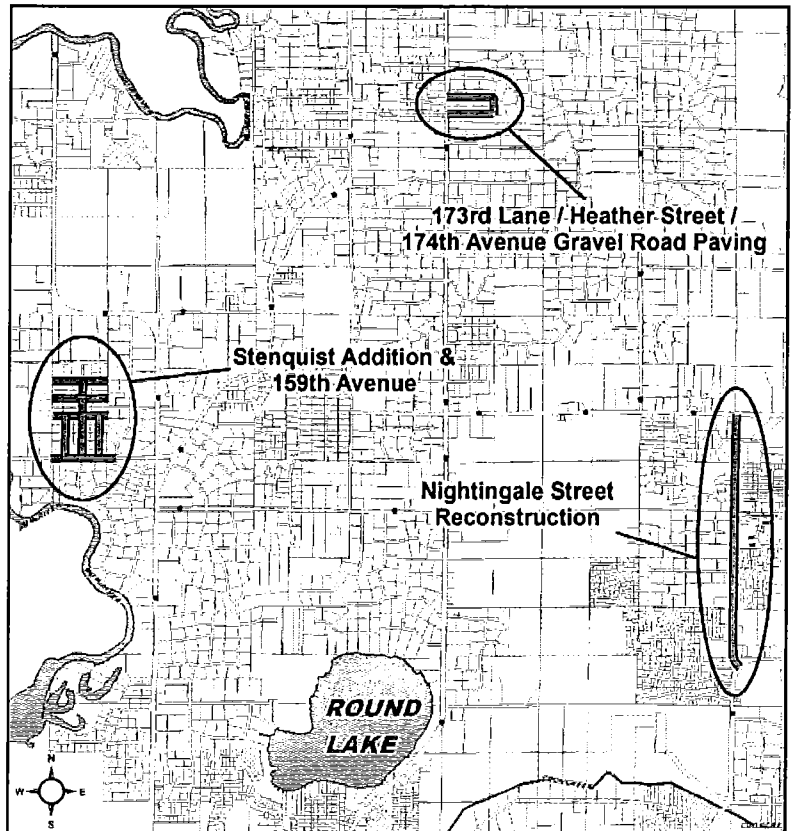
Every year the City prepares a 5 Year Capital Improvement Plan (CIP) which includes the annual Street Reconstruction program. This program maintains the integrity and value of the community’s streets. Seventy-five percent of the project costs are funded through the City’s Road and Bridge Fund. Twenty-five percent of the project costs are assessed to the benefiting properties fronting along the improvements.

The Stenquist Addition and 159th Avenue from Makah Street to Marystone Boulevard are identified for reconstruction in 2013 (see adjacent map). The project consists of reclaiming the existing roadways, constructing concrete curb and gutter on portions of 159th Avenue and 160th Lane, storm sewer improvements, and constructing new asphalt surfaces. 159th Lane from Makah Street to 7th Avenue will be reconstructed in 2014. Construction is expected to begin in early June.

Nightingale Street Reconstruction (Crosstown Blvd to County Road 20)

This project will include construction of turn lane improvements at most intersections along the corridor, curb and gutter improvements in certain segments, storm sewer improvements, and a trail that will extend on the east side of Nightingale Street from Crosstown Boulevard north to 159th Lane. A portion of the street reconstruction costs are being assessed to benefiting properties that front along Nightingale Street. Construction is expected to begin in mid to late June and be opened to traffic by the beginning of school. The roadway will be closed to local traffic only during construction.

If you have questions regarding any of these projects, please contact David Berkowitz at (763) 767-5133 or Jason Law at (763) 767-5130.



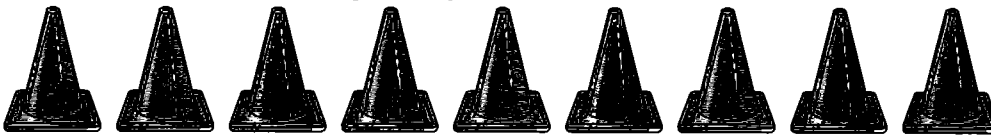
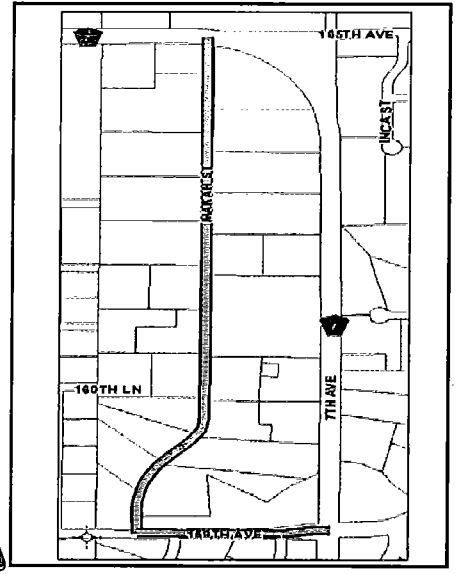
2014 STREET RECONSTRUCTION PROGRAM

Every year the City prepares a 5 Year Capital Improvement Plan (CIP) which includes the annual Street Reconstruction program. This program maintains the integrity and value of the community's streets. Seventy-five percent of the project costs are funded through the City's Road and Bridge Fund. Twenty-five percent of the project costs are assessed to the benefiting properties fronting along the improvements.

159th Avenue from Makah Street to 7th Avenue and Makah Street from 159th Avenue to 7th Avenue are identified for reconstruction in 2014 (see adjacent map). The project will consist of reclaiming the existing roadways,

constructing concrete curb and gutter, storm sewer improvements, and paving new asphalt surfaces. An existing 36" CMP culvert that is failing under 159th Avenue just west of 7th Avenue will be replaced with this project. 159th Avenue will need to be closed and detoured while this culvert replacement is taking place.

If you have questions regarding any of these projects, please contact David Berkowitz at (763) 767-5133 or Jason Law at (763) 767-5130.



CLEAN WATER STARTS AT HOME

Tip #6: Fall Lawn Care

Healthy soil is key for healthy lawns, and healthy lawns can be good for water quality. Turf grass has a growth spurt in the fall to store up energy for winter; give it some help:

Mulch leaves and grass with your lawnmower to return nutrients to the soil and to help keep them off the streets...and out of our water!

Aerate your lawn late August, early-September

How? It's best to use a core aerator, available for rent at any home & garden stores or done by some lawncare services. Aeration allows water and air to reach the grass roots more easily.

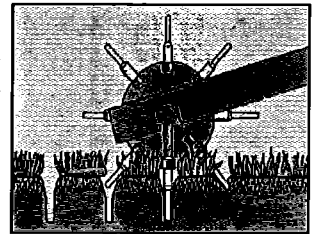
Wait to fertilize until after aeration

If you use fertilizer, use it in September after aerating your lawn. Then it can be absorbed and saved by plants for spring. Make sure your lawn fertilizer has no phosphorus – look for a “0” in the middle of three numbers on the bag indicating nitrogen (N), phosphorus (P), & potassium (K) amounts. Fertilizing once per year should be enough. If you regularly mulch your clippings and leaves, you may not need to fertilize.

For more information contact Dawn at Coon Creek Watershed District (763) 755-0975 or email: info@cooncreekwd.org.

WEB Resources:

Aeration - www.gardening.cornell.edu/homegardening/scene5e77.html



STAY OUT OF HOT WATER AROUND WETLANDS

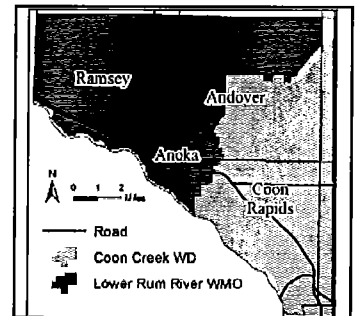
As warm weather comes so do questions about wetlands. Outdoor projects in and around wetlands can get the owner into “hot water” if proper permits are not obtained. The laws are complex. And “I didn't know” is not an acceptable excuse. But help does exist...for free! Your local watershed organization and the Anoka Conservation District can be your guide.

Wetlands are areas in the landscape that naturally have saturated soils or standing water. Along with the presence of water, soils and vegetation are also used to define legal wetland boundaries. Professional wetland delineators determine the wetland boundary. The water edge is not necessarily the same as a wetland boundary.

Some wetlands rarely have standing water. These seasonal wetlands have a high water table in the spring and then dry out later in the year.

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Recognizing the complexity of the wetland laws, local communities provide experts to guide landowners to help keep them out of “hot water.” So, before starting any project around a wetland, contact your local watershed organization or the Anoka Conservation District, they will be happy to help you.



Lower Rum River Watershed Management Organization

<http://www.anokanaturalresources.com/lrrwmo>
 Phone: (763) 767-5131

Coon Creek Watershed District
www.cooncreekwd.org
 Phone: (763) 755-0975

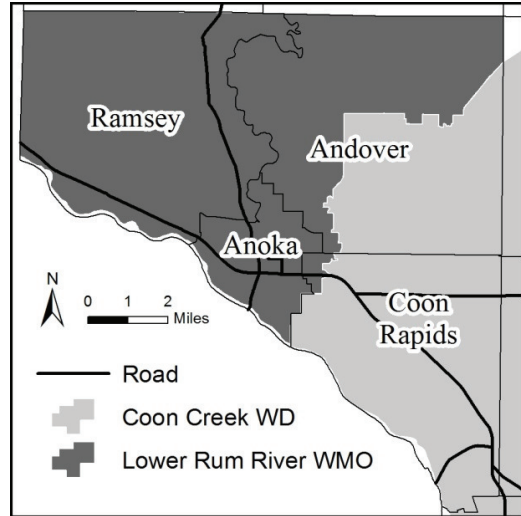
Anoka Conservation District
www.anokaswd.org
 Phone: (763) 434-2030

FROGS MARK THE SPOT

As projects get into full swing, listen for frogs to help direct your work. For the industrious human, frog calls mean “watch out, this is a wetland right here.” And, knowing the location of wetlands is important because some activities within wetlands are regulated, even on private lands. Not all wetlands are permanently flooded. Many may be wet only a few weeks per year, which is enough for the frogs... and the law. If you have a low spot on your property that harbors frogs, even if only briefly, this area may be a wetland. And the legal wetland boundary is probably higher on the landscape than you think– it’s defined by soils, vegetation, and hydrology.

Wetlands cover about 20% of Anoka County, nearly twice as much as any county in the 7-county metro area.

Wetlands are so valuable to wildlife and water quality that federal, state, and local rules exist. So, before starting any project around a wetland, contact your local watershed organization or the Anoka Conservation District, they will be happy to help you.



Lower Rum River Watershed
Management Organization

<http://www.anokanaturalresources.com/lrrwmo>

Phone: 763-767-5131

Coon Creek Watershed District

www.cooncreekwd.org

Phone: 763-755-0975

Anoka Conservation District

www.anokaswcd.org

Phone: 763-434-2030

The Draw Summer Event Series

The Ramsey Foundation would like to invite you to partner with us in sponsoring summer family entertainment events hosted in The Draw Park and Amphitheater. The Draw is located within the Center of Ramsey (The COR).

The Draw Summer Event Series takes place every Thursday night from June to September. Events include concert style music, dueling pianos, comedians, live radio broadcasts and much more. Several events also include free product giveaways from local companies.

In order to host these entertainment events, the Ramsey Foundation relies on donations from Ramsey businesses/organizations.

Typical costs, depending on the event you are interested in, are estimated to be between \$500 and \$1,000. The Ramsey Foundation is willing to work with businesses who wish to partially fund an event. The Ramsey Foundation is also willing to work with businesses wish-

ing to use their sponsorship to coincide with their own public relations campaign or company picnic.

For more information, please visit The Ramsey Foundation website at www.cityoframseyfoundation.org or contact Mary Jo Olson at 612-385-7951 or olson8260@comcast.net.

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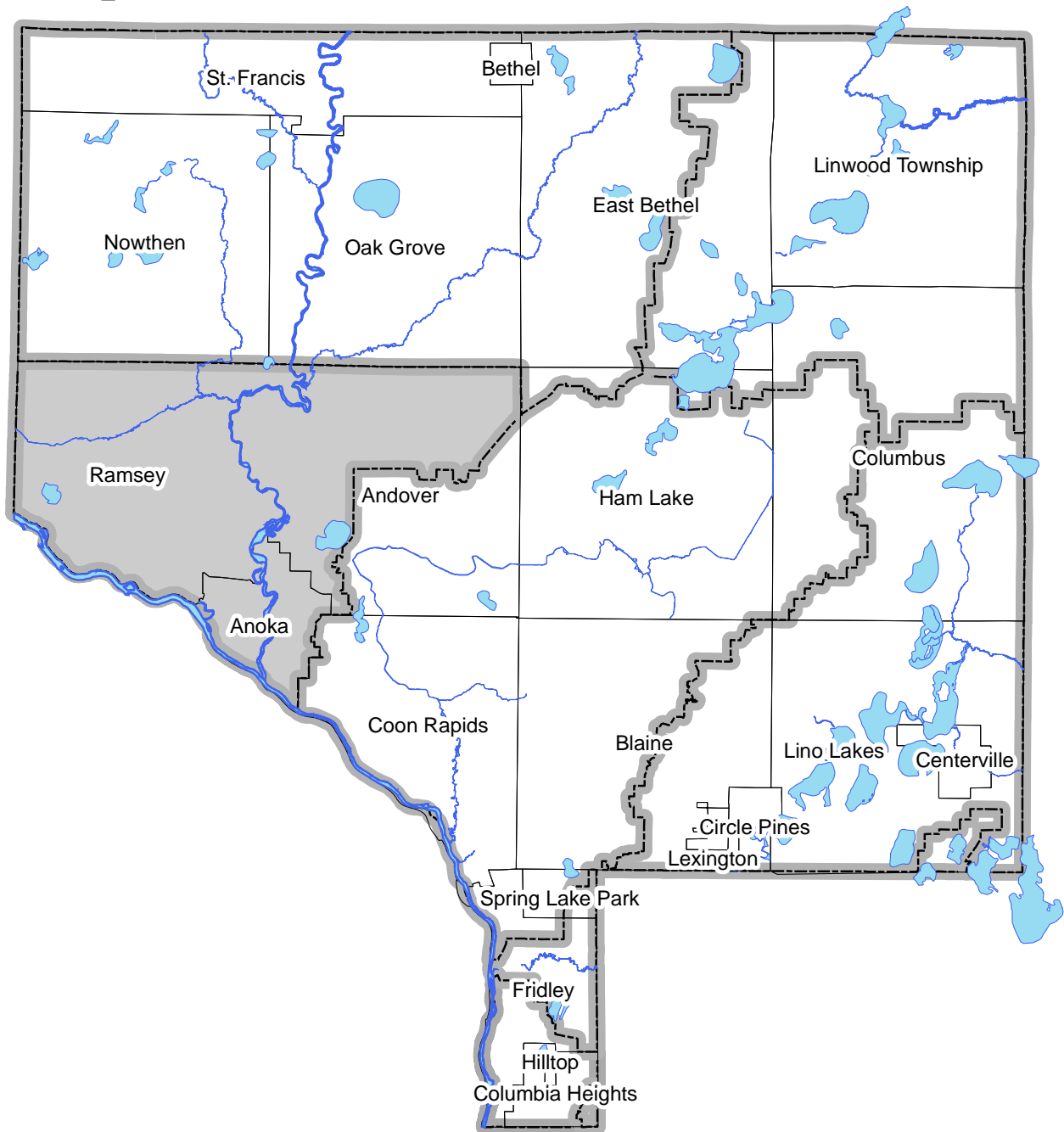
Hwy 169N & Cty Rd 33W
Elk River

Appendix D: 2013 Work Results

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Excerpt from the 2013 Anoka Water Almanac

Chapter 4: Lower Rum River Watershed

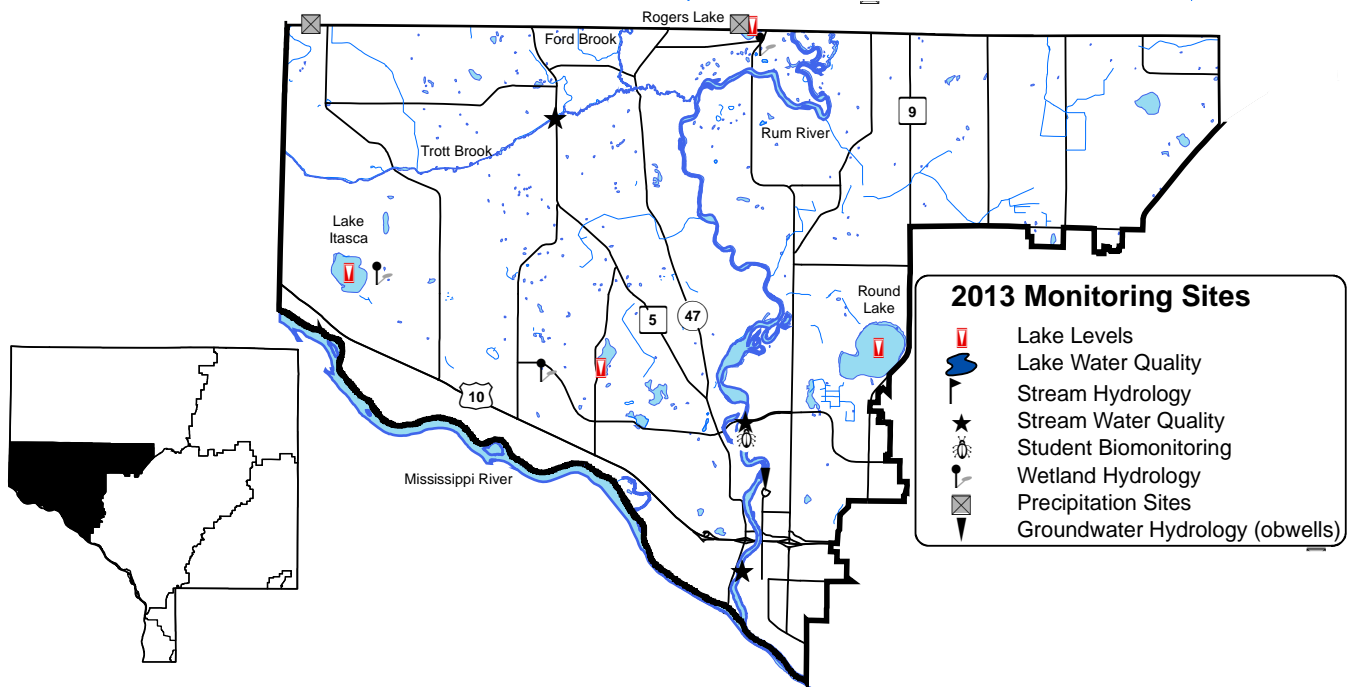


Prepared by the Anoka Conservation District

CHAPTER 4: LOWER RUM RIVER WATERSHED

Task	Partners	Page
Lake Levels	LRRWMO, ACD, volunteers, MN DNR	4-87
Stream Water Quality – Chemical	MPCA, ACD	4-89
Stream Water Quality – Biological	LRRWMO, ACD, ACAP, Anoka High School	4-94
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Groundwater Hydrology (obwells)	ACD, MNDNR	Chapter 1
Precipitation	ACD, volunteers	Chapter 1
		Chapter 1

ACAP = Anoka County Ag Preserves, ACD = Anoka Conservation District, LRRWMO = Lower Rum River Watershed Mgmt Org, MC = Metropolitan Council, MNDNR = MN Dept. of Natural Resources



Lake Level Monitoring

Description: Weekly water level monitoring in lakes. The past five years are shown below, and all historic data are available on the Minnesota DNR website using the “LakeFinder” feature (www.dnr.mn.us.state/lakefind/index.html).

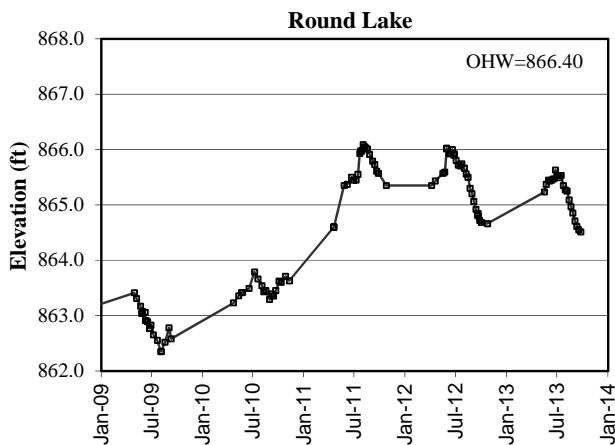
Purpose: To understand lake hydrology, including the impact of climate or other water budget changes. These data are useful for regulatory, building/development, and lake management decisions.

Locations: Itasca, Round, Rogers, and Sunfish/Grass Lakes

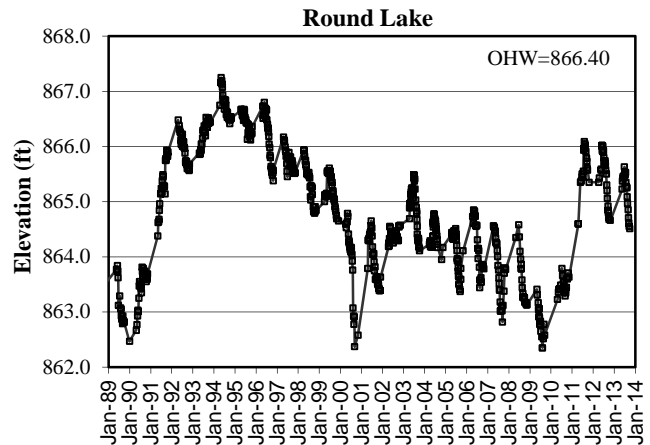
Results: Lake levels were measured by volunteers throughout the 2013 open water season. Lake gauges were installed and surveyed by the Anoka Conservation District and MN DNR. Lakes had sharply increasing water levels in spring and early summer 2013 when heavy rainfall totals occurred. Little rainfall fell later in the year and lake levels fell dramatically.

All lake level data can be downloaded from the MN DNR website’s Lakefinder feature. Ordinary High Water Level (OHW), the elevation below which a DNR permit is needed to perform work, is listed for each lake on the corresponding graphs below.

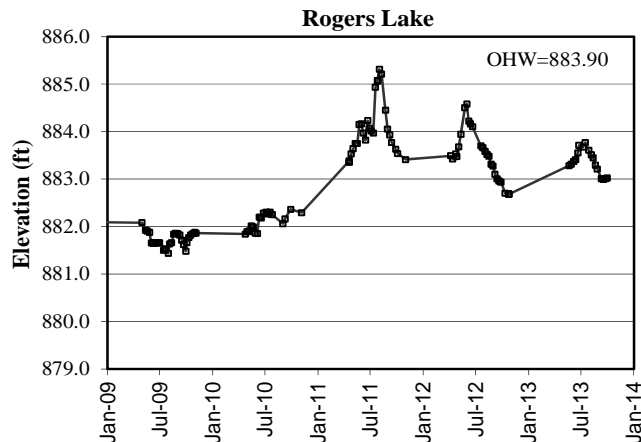
Round Lake Levels – last 5 years



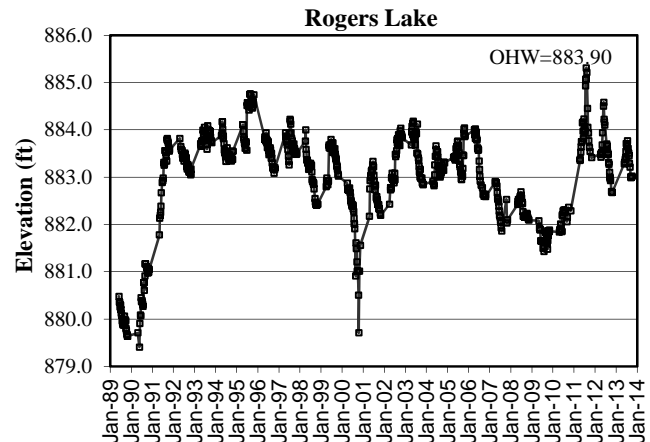
Round Lake Levels – last 25 years



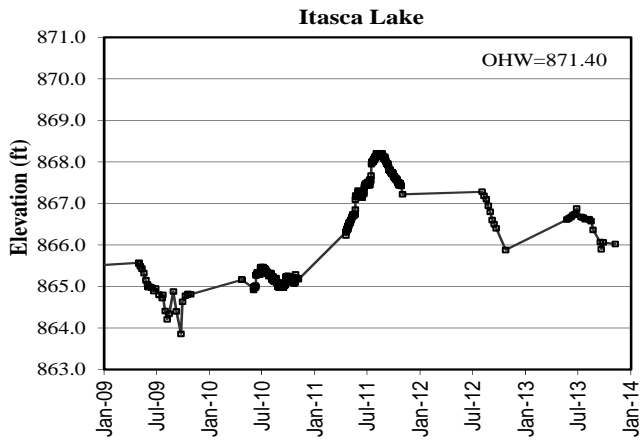
Rogers Lake Levels – last 5 years



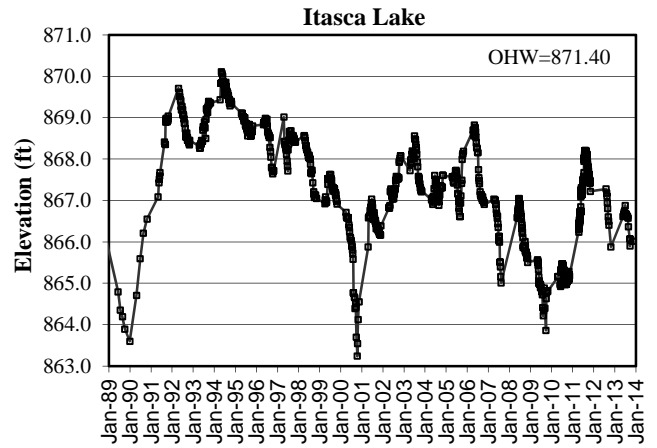
Rogers Lake Levels – last 25 years



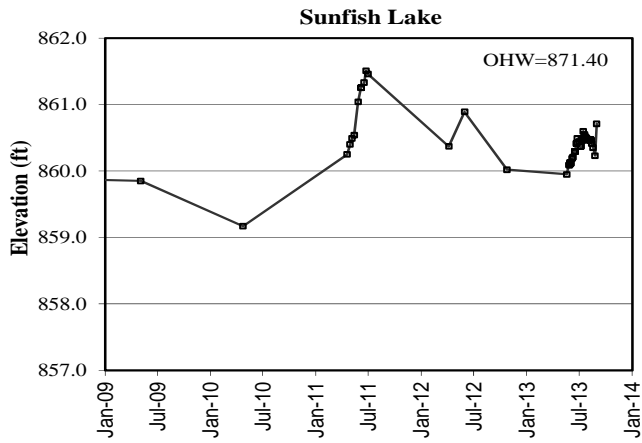
Itasca Lake Levels – last 5 years



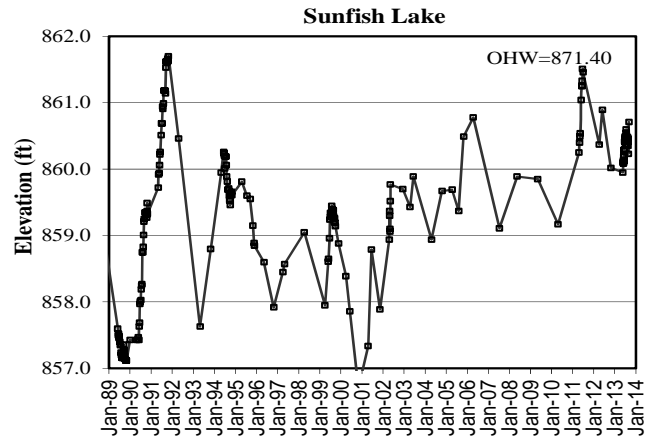
Itasca Lake Levels – last 25 years



Sunfish/Grass Lake Levels – last 5 years



Sunfish/Grass Lake Levels – last 25 years



Stream Water Quality - Chemical Monitoring

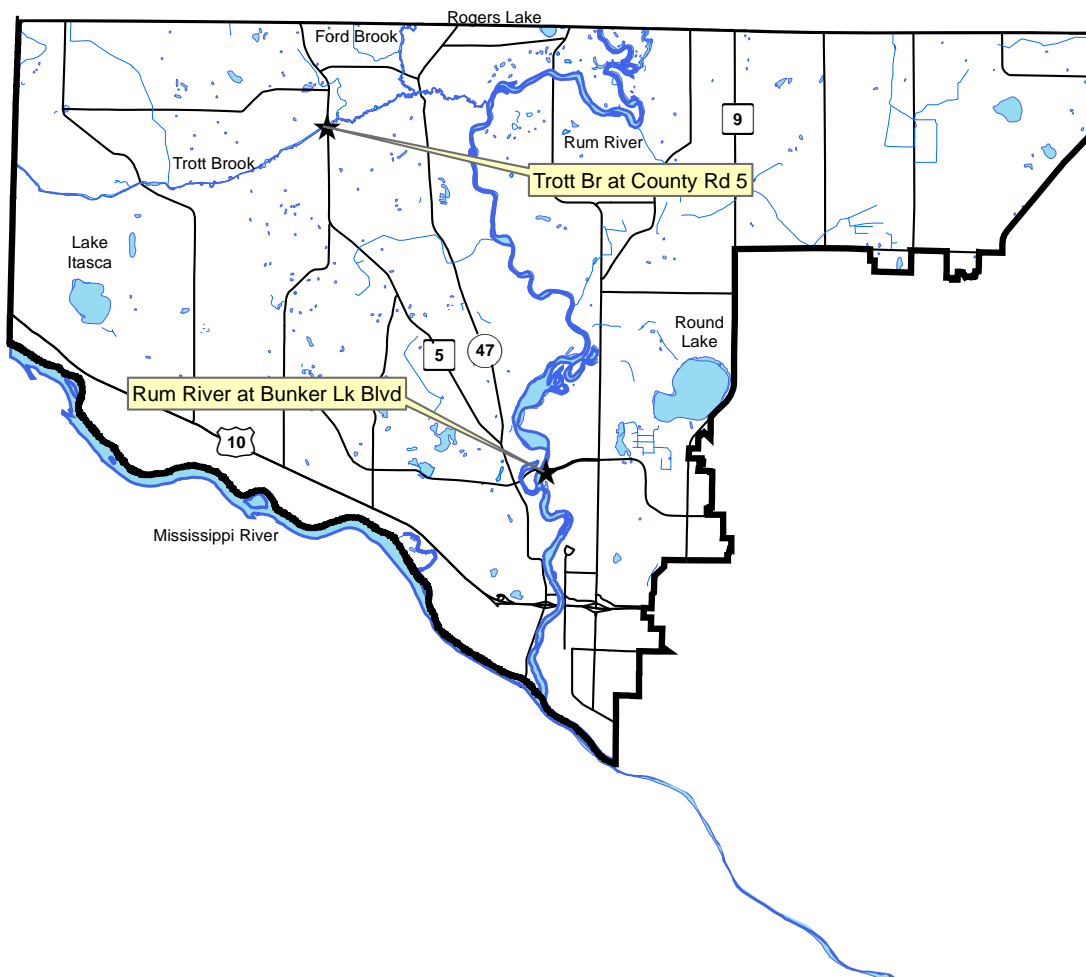
Description: The Anoka Conservation District (ACD) is conducting Surface Water Assessment Grant (SWAG) monitoring for the MPCA in 2013 and 2014. Monitoring events are scheduled May through September for of the following parameters: total suspended solids, chlorides, sulfate, hardness, calcium, magnesium, nitrogen-ammonia, total kjeldahl nitrogen, nitrate & nitrite, volatile suspended solids, e. coli, total phosphorus, Secchi tube transparency, dissolved oxygen, turbidity, temperature, conductivity, pH, and salinity.

Purpose: To provide an initial assessment of water quality to be used in the completion of the Rum River Watershed Restoration and Protection Plan (WRAPP).

Locations: Trott Brook at County Road 5
Rum River at Bunker Lake Blvd

Results: Results are presented on the following pages.

2013 Lower Rum River Monitoring Sites



Stream Water Quality Monitoring

TROTT BROOK

Trott Brook at Co. Rd. 5, Ramsey

STORET SiteID = S003-176

Years Monitored

Trott at Co. Rd. 5 1998, 2003, 2006, 2012, 2013

Background

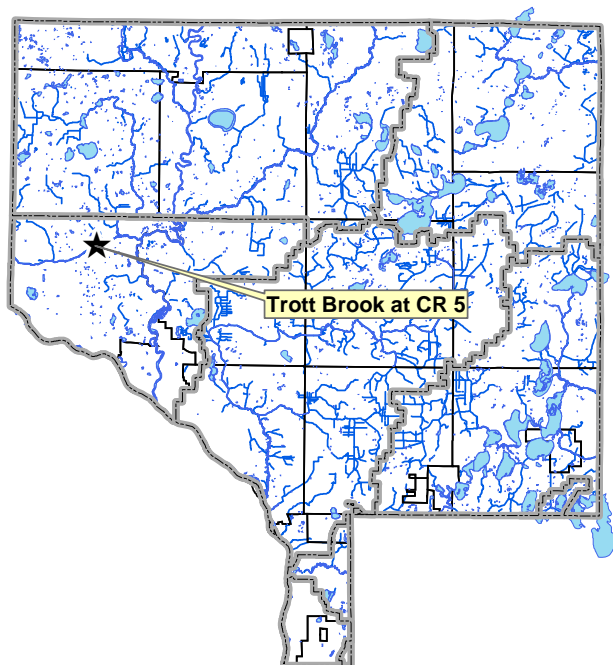
Trott Brook is a medium-sized creek that flows south through Sherburne County, paralleling the Anoka-Sherburne County boundary before turning east through the City of Ramsey where outlets to the Rum River. Overall, the watershed is rural or suburban residential, and areas within the watershed are undergoing rapid development. The creek is about 25 feet wide and 2.5 feet deep at the monitoring site during baseflow. The monitoring site is approximately one mile upstream of Trott Brook's confluence with Ford Brook.

Results and Discussion

This report includes data from 2013. A reason this monitoring is being performed is to gain additional historical data for the state to determine if the creek is meeting state water quality standards. That assessment process is part of the Rum River Watershed Restoration and Protection Project (WRAPP). The following is a summary of results.

- Dissolved constituents, as measured by conductivity and chlorides, in Trott Brook were similar to other Anoka County streams. Conductivity averaged 0.403 mS/cm (Maximum of 0.542 mS/cm and a minimum of 0.264 mS/cm). Chlorides averaged 25 mg/l (maximum of 32 mg/l and a minimum of 14 mg/l), and substantially better than state water quality standards.
- Phosphorous averaged higher the proposed MPCA water quality standard of 100 ug/l. If the proposed standard is approved Trott Brook often exceeds the limit, even during baseflow periods. Phosphorous in Trott Brook averaged 107 ug/l (maximum of 173 ug/l and a minimum of 55 ug/l).
- Suspended solids and turbidity both stayed below the state standards each sampling event. Total suspended solids averaged 7.5 mg/l (maximum of 24 mg/l and a minimum of 2 mg/l). Turbidity averaged 3.17 NTU (maximum of 11.00 NTU and a minimum of 0.00 NTU).
- pH was within the range considered normal and healthy for streams in this area. pH averaged 7.78 (maximum of 8.68 and a minimum of 7.18).
- Dissolved oxygen was periodically below the state water quality standard of 5 mg/L of dissolved oxygen (DO). Low DO in this creek was a known concern based on past monitoring. In Trott Brook five of 13 DO measurements were below 5 mg/L and all measurements averaged 5.35 mg/l (maximum of 8.23 mg/l and a minimum of 2.01 mg/l). Measurements were not taken in early morning when DO is typically lowest.

For a significant number of the results below there are no current state standards. However, this data will be used as a baseline for future assessments of the watershed.



Trott Brook Water Quality Monitoring Results for 2013.

Grey columns indicate dates with E.coli samples only.

Trott Brook at CR 5			4/30/2013	5/21/2013	6/5/2013	6/17/2013	6/25/2013	7/2/2013	7/15/2013	7/23/2013
	Units	R.L.*	Results	Results	Results	Results	Results	Results	Results	Results
pH		0.1	7.76	7.62	7.90	8.68	7.39	7.73	7.18	7.33
Conductivity	mS/cm	0.01	0.288	0.264	0.433	0.444	0.303	0.418	0.292	0.412
Turbidity	NTU	1	3.0	11.0	5.1	4.5	8.3	1.4	0.6	1.1
D.O.	mg/L	0.01	8.02	6.59	8.23	7.35	2.01	5.42	3.35	2.29
D.O.	%	1	74.9	61.5	70.3	76.2	22.4	56.6	26.6	25.6
Temp.	°C	0.1	12.1	12.5	12.9	17.4	20.8	18.9	21.9	20.8
Salinity	%	0.01	0.01	0.01	0.21	0.21	0.14	0.20	0.14	0.20
T.P.	ug/L	10	72	132	107		173	150		138
TSS	mg/L	2	12	24	7		12	3		3
Cl	mg/L		21.2	25.3	25.6		14.2	20.1		18.7
Sulfate	mg/L		28.0	22.0	20.9		15.1	12.8		10.0
Hardness CaCO3	mg/L		197	176	228		155	238		237
Calcium	mg/L		52.00	46.90	60.10		40.70	62.30		60.00
Magnesium	mg/L		16.20	14.40	18.90		12.90	20.00		21.10
Secchi-tube	cm		>100	>100	>100	>100	>100	>100	>100	>100
Nitrogen, Ammonia	mg/L		0.29	0.65	0.37		<0.16	<0.16		0.23
TKN	mg/L		1.1	1.9	1.5		1.9	1.7		1.1
Nitrate plus Nitrite	mg/L		1.41	0.50	0.54		<0.2	0.29		<0.2
VSS	mg/L	2	7	16	6		12	3		3
E coli	MPN				225.0	178.9	44.1	28.1	98.7	13.5
Appearance			1B	1B	1B	1A	1B	1A	1A	1A
Recreational			2	2	2	1	1	1	1	1

			8/6/2013	8/19/2013	8/27/2013	9/4/2013	9/25/2013	Average	Min	Max
		Results	Results	Results	Results	Results	Results			
pH		0.1	7.75	7.90	7.95	8.00	8.01	7.78	7.18	8.68
Conductivity	mS/cm	0.01	0.428	0.426	0.462	0.527	0.542	0.403	0.264	0.542
Turbidity	NTU	1	1.7	0.2	0.0	1.1	3.2	3.17	0.00	11.00
D.O.	mg/L	0.01	5.27	4.35	3.36	6.54	6.83	5.35	2.01	8.23
D.O.	%	1	55.7	49.1	42.7	70	70.5	54.0	22.4	76.2
Temp.	°C	0.1	17.8	19.4	25.1	17.4	15.0	17.8	12.1	25.1
Salinity	%	0.01	0.21	0.20	0.22	0.25	0.26	0.17	0.01	0.26
T.P.	ug/L	10	55		93	72	74	107	55	173
TSS	mg/L	2	2		3	3	6	7.5	2.0	24.0
Cl	mg/L		27.3		30.2	30.8	32.4	25	14	32
Sulfate	mg/L		17.9		15.3	17.5	17.3	17.7	10.0	28.0
Hardness CaCO3	mg/L		249		250	241	199	217	155	250
Calcium	mg/L		60.10		58.20	57.90	49.10	54.73	40.70	62.30
Magnesium	mg/L		24.00		25.40	23.40	18.50	19.48	12.90	25.40
Secchi-tube	cm		>100	>100	>100	>100	>100	>100	0	>100
Nitrogen, Ammonia	mg/L		<0.16		<0.16	<0.16	<0.16	<0.25	<0.16	0.65
TKN	mg/L		0.7		0.7	0.4	0.7	1.17	0.40	1.90
Nitrate plus Nitrite	mg/L		<0.2		0.38	0.45	0.58	0.59	0.29	1.41
VSS	mg/L	2	2		3	3	5	6.0	2.00	16.00
E coli	MPN		21.8	8.4				77.3	8.4	225.0
Appearance			1A	1A	1A	1A	1A			
Recreational			2	1	1	1	1	1	1	2

Stream Water Quality Monitoring

RUM RIVER

Rum River at Bunker Lake Boulevard, Anoka

STORET SiteID = S007-555

Years Monitored

Rum River at Bunker L Blvd 2013

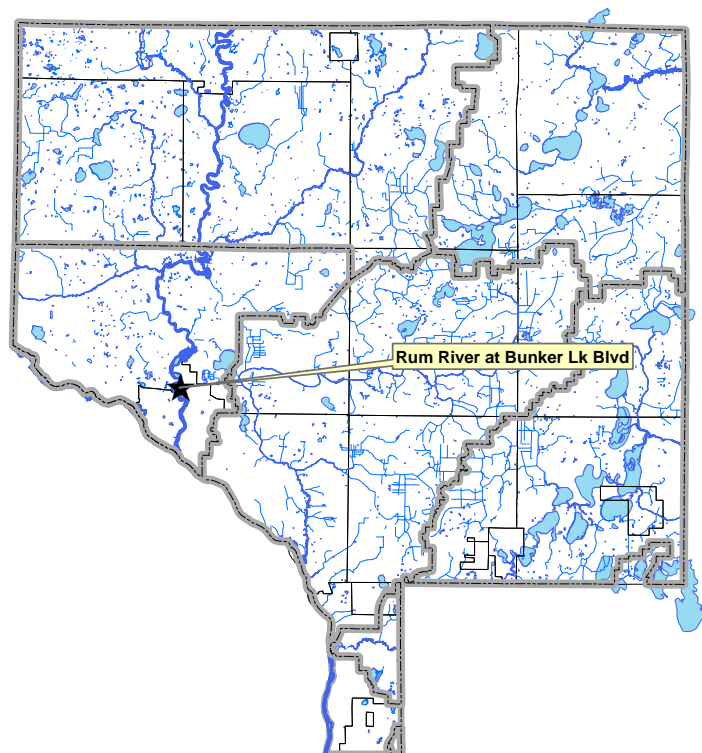
Background

The Rum River originates from Lake Mille Lacs, and flows south through western Anoka County where it joins the Mississippi River in the City of Anoka. In Anoka County the river has both rocky riffles (northern part of county) as well as pools and runs with sandy bottoms. The river's condition is generally regarded as excellent. Most of the Rum River in Anoka County has a state "scenic and recreational" designation. The sampling site is at the pier located in River Bend Park, southwest of the Bunker Lake Boulevard bridge.

Results and Discussion

This report includes data from 2013. A reason this monitoring is being performed is to gain additional historical data for the state to determine if the river is meeting state water quality standards. That assessment process is part of the Rum River Watershed Restoration and Protection Project (WRAPP). The following is a summary of results.

- Dissolved constituents, as measured by conductivity and chlorides, in the Rum River were low when compared to Anoka County streams. Conductivity averaged 0.242 mS/cm Maximum of 0.336 mS/cm and a minimum of 0.150 mS/cm). Chlorides averaged 13 mg/l (maximum of 16 mg/l and a minimum of 6 mg/l), which is better than the state water quality standard.
- Phosphorous was typically higher than the proposed MPCA water quality standard of 100 ug/l, even during baseflow periods. Phosphorous results in the Rum River averaged 118 ug/l (maximum of 183 ug/l and a minimum of 71 ug/l).
- Suspended solids and turbidity both were below the state standards each sampling event and averaged well below the standards. Total suspended solids averaged 7.7 mg/l (maximum of 16 mg/l and a minimum of 2 mg/l). Turbidity averaged 75.76 NTU (maximum of 17.60 NTU and a minimum of 0.70 NTU).
- pH and dissolved oxygen were with the range considered normal and healthy for streams in this area. pH averaged 8.16 (maximum of 8.70 and a minimum of 7.57). DO averaged 7.76 mg/l (maximum of 10.15 mg/l and a minimum of 5.10 mg/l).



For a significant number of the results below there are no current state standards. However, this data will be used as a baseline for future assessments of the watershed.

Rum River Water Quality Monitoring Results for 2013.

Grey columns indicate dates with E.coli samples only.

Rum River at Bunker Lk Boulevard			4/30/2013	5/21/2013	6/5/2013	6/17/2013	6/25/2013	7/2/2013	7/15/2013	7/23/2013
	Units	R.L.*	Results	Results	Results	Results	Results	Results	Results	Results
pH		0.1	7.91	7.7	7.82	8.61	7.71	7.57	7.73	8.14
Conductivity	mS/cm	0.01	0.150	0.193	0.220	0.214	0.192	0.173	0.250	0.272
Turbidity	NTU	1	8.0	9.0	9.2	6.3	17.6	2.8	6.3	4.5
D.O.	mg/L	0.01	9.96	7.98	7.10	7.06	6.19	5.10	6.76	7.31
D.O.	%	1	95.5	82.9	72.4	78.8	72.0	58.8	79.7	86.6
Temp.	°C	0.1	13.4	17.3	16.3	20.6	22.6	22.6	24.0	24.1
Salinity	%	0.01	0.00	0.00	0.10	0.10	0.09	0.08	0.12	0.13
T.P.	ug/L	10	109	128	128		173	183		127
TSS	mg/L	2	15	16	11		14	5		6
Cl	mg/L		12.0	16.0	11.5		9.2	6.2		12.5
Sulfate	mg/L		19.1	13.7	15		10.5	11.6		9
Hardness CaCO3	mg/L		93.3	119	93.1		96.2	92.2		142.0
Calcium	mg/L		24.60	31.80	24.80		25.20	24.30		35.90
Magnesium	mg/L		7.74	9.65	7.57		8.09	7.65		12.70
Secchi-tube	cm		79	>100	92	62	84.5	83	75	80
Nitrogen, Ammonia	mg/L		<0.16	0.37	<0.16		<0.16	0.23		0.51
TKN	mg/L		0.9	1.6	1.4		1.6	1.7		1.3
Nitrate plus Nitrite	mg/L		0.35	0.27	0.25		0.37	<0.2		0.31
VSS	mg/L	2	6	16	6		8	5		5
E coli	MPN				30.9	96.0	28.0	52.9	71.7	28.8
Chl a	ug/L				6.3		1.8	1.8		5.2
Pheophytin a	ug/L				5.25		3.19	1.38		1.68
Appearance			1B	1B	1B	1A	1B	1B	3	1B
Recreational			1	1	1	1	1	1	1	1

	Units	R.L.*	8/6/2013	8/19/2013	8/27/2013	9/4/2013	9/25/2013	Average	Min	Max
pH		0.1	8.52	8.66	8.56	8.44	8.7	8.16	7.57	8.70
Conductivity	mS/cm	0.01	0.263	0.265	0.287	0.336	0.326	0.242	0.150	0.336
Turbidity	NTU	1	3.4	1.5	0.7	2.3	3.3	5.76	0.70	17.60
D.O.	mg/L	0.01	8.24	8.26	7.77	8.95	10.15	7.76	5.10	10.15
D.O.	%	1	92.2	98.2	102.8	101.8	108.4	86.9	58.8	108.4
Temp.	°C	0.1	20.8	22.5	28.3	20.7	17.2	20.8	13.4	28.3
Salinity	%	0.01	0.13	0.13	0.14	0.16	0.16	0.10	0.00	0.16
T.P.	ug/L	10	71		100	91	73	118	71	183
TSS	mg/L	2	2		2	4	2	7.7	2.0	16.0
Cl	mg/L		13.5		15.1	15.8	16	13	6	16
Sulfate	mg/L		<12		10.6	11	11.5	12.4	9.3	19.1
Hardness CaCO3	mg/L		141.0		141.0	152.0	122	119	92	152
Calcium	mg/L		35.20		34.50	37.90	30.90	30.51	24.30	37.90
Magnesium	mg/L		13.00		13.30	14.00	10.90	10.46	7.57	14.00
Secchi-tube	cm		>100	>100	>100	>100	>100	>89	62	>100
Nitrogen, Ammonia	mg/L		<0.16		<.16	<0.16	<0.16	<0.22	<0.16	0.51
TKN	mg/L		0.7		1.3	0.7	0.7	1.19	0.70	1.70
Nitrate plus Nitrite	mg/L		<0.2		0.44	0.42	0.43	0.36	0.25	0.44
VSS	mg/L	2	2		2	4	2	5.6	2.00	16.00
E coli	MPN		42.0	32.3				47.8	28.0	96.0
Chl a	ug/L		4.2		3.6	2.7		3.7	1.8	6.3
Pheophytin a	ug/L		2.77		1.45	<1		<2.4	<1.0	5.3
Appearance			2	1A	1A	1A	1A			
Recreational			1	1	1	1	1	1	1	1

Stream Water Quality – Biological Monitoring

- Description:** This program combines environmental education and stream monitoring. Under the supervision of ACD staff, high school science classes collect aquatic macroinvertebrates from a stream, identify their catch to the family level, and use the resulting numbers to gauge water and habitat quality. These methods are based upon the knowledge that different families of macroinvertebrates have different water and habitat quality requirements. The families collectively known as EPT (Ephemeroptera, or mayflies; Plecoptera, or stoneflies; and Trichoptera, or caddisflies) are pollution intolerant. Other families can thrive in low quality water. Therefore, a census of stream macroinvertebrates yields information about stream health.
- Purpose:** To assess stream quality, both independently as well as by supplementing chemical data. To provide an environmental education service to the community.
- Locations:** Rum River behind Anoka High School, south side of Bunker Lake Blvd, Anoka
- Results:** Results for each site are detailed on the following pages.

Tips for Data Interpretation

Consider all biological indices of water quality together rather than looking at each alone, because each gives only a partial picture of stream condition. Compare the numbers to county-wide averages. This gives some sense of what might be expected for streams in a similar landscape, but does not necessarily reflect what might be expected of a minimally impacted stream. Some key numbers to look for include:

- # Families Number of invertebrate families. Higher values indicate better quality.
- EPT Number of families of the generally pollution-intolerant orders Ephemeroptera (mayflies), Plecoptera (stoneflies), Trichoptera (caddisflies). Higher numbers indicate better stream quality.
- Family Biotic Index (FBI) An index that utilizes known pollution tolerances for each family. Lower numbers indicate better stream quality.

FBI	Stream Quality Evaluation
0.00-3.75	Excellent
3.76-4.25	Very Good
4.26-5.00	Good
5.01-5.75	Fair
5.76-6.50	Fairly Poor
6.51-7.25	Poor
7.26-10.00	Very Poor

- % Dominant Family High numbers indicates an uneven community, and likely poorer stream health.
-

Biomonitoring

RUM RIVER

behind Anoka High School, Anoka
STORET SiteID = S003-189

Last Monitored

By Anoka High School in 2013

Monitored Since

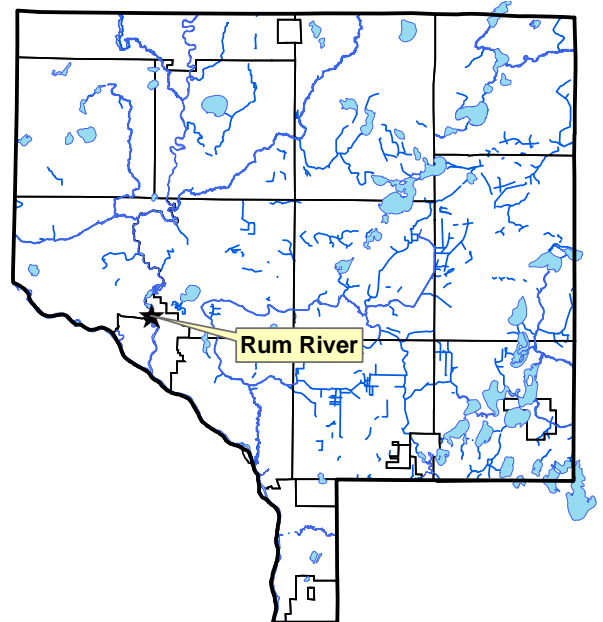
2001

Student Involvement

130 students in 2013, approximately 610 since 2001

Background

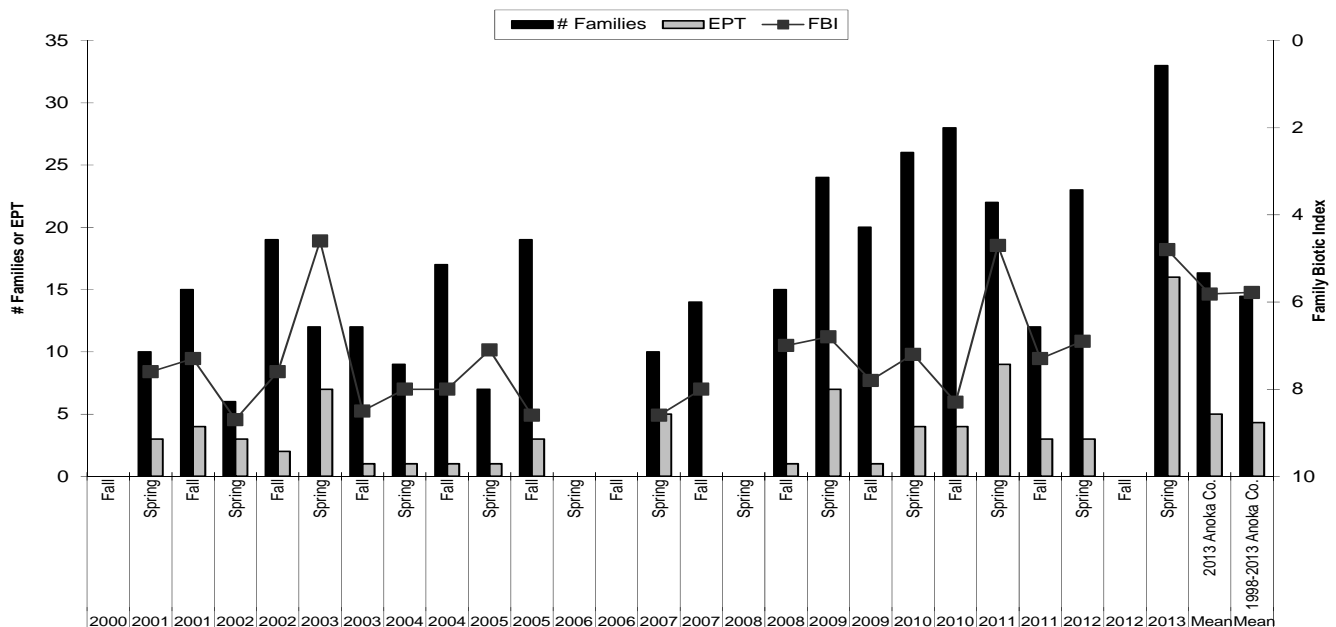
The Rum River originates from Lake Mille Lacs, and flows south through western Anoka County where it joins the Mississippi River in the City of Anoka. In Anoka County the river has both rocky riffles (northern part of county) as well as pools and runs with sandy bottoms. The river's condition is generally regarded as excellent. Most of the Rum River in Anoka County has a state "scenic and recreational" designation. The sampling site is near the Bunker Lake Boulevard bridge behind Anoka High School. Most sampling has been conducted in a backwater rather than the main channel.



Results

Anoka High school classes monitored the Rum River in spring of 2013 with Anoka Conservation District (ACD) oversight. The results for spring 2013 were better than previous years. More families, 33 in total, were found here than in any other Anoka County stream. This should be expected as most other sites are small streams and this is a larger river. The number of sensitive EPT families (16) and the FBI score (4.8) were the best in Anoka County and substantially above the county averages.

Summarized Biomonitoring Results for Rum River behind Anoka High School



Biomonitoring Data for the Rum River behind Anoka High School

Data presented from the most recent five years. Contact the ACD to request archived data.

Year	2009	2009	2010	2010	2011	2011	2012	2013	Mean	Mean
Season	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Spring	2013 Anoka Co.	1998-2013 Anoka Co.
FBI	6.80	7.80	7.20	8.30	4.70	7.30	6.90	4.80	5.8	5.8
# Families	24	20	26	28	22	12	23	33	16.3	14.5
EPT	7	1	4	4	9	3	3	16	5.0	4.3
Date	8-May	28-Sep	18-May	7-Oct	10-Jun	5-Oct	8-May	14-May		
Sampled By	AHS	AHS	AHS	AHS	ACD	ACD	AHS	AHS		
Sampling Method	MH	MH	MH	MH	MH	MH	MH	MH		
Mean # Individuals/Rep.	880	585	443	816	604	188	502	449.3		
# Replicates	1	2	1	1	1	1	2	4		
Dominant Family	Siphonuridae	Hyalellidae	Gastropoda	Hyalellidae	baetidae	hyalellidae	silphonuridae	Perlodidae		
% Dominant Family	40.7	39.1	31.8	34.1	57.5	63.3	37.8	27.1		
% Ephemeroptera	48.2	0.9	8.1	0.9	59.3	11.2	44.9	31.8		
% Trichoptera	0.1	0	0	0.2	1	0	1.2	0.05		
% Plecoptera	2.6	0	0.5	0	3.8	0.5	0	36.6		

Supplemental Stream Chemistry Readings

Data presented from the most recent five years. Contact the ACD to request archived data.

Parameter	5/8/2009	9/28/2009	5/18/2010	10/7/2010	6/10/2011	10/5/2011	5/8/2012	5/13/2013
pH	7.91	7.82	7.24	7.22	7.84	7.98	8.10	7.69
Conductivity (mS/cm)	0.276	0.421	0.207	0.399	0.296	0.296	0.205	0.181
Turbidity (NTU)	6	5	7	7	18	10	7	5
Dissolved Oxygen (mg/L)	10.82	8.76	6.93	na	6.85	7.91	7.87	10.00
Salinity (%)	0.01	0.01	0	0.01	0.01	0.01	0.00	0.00
Temperature (°C)	17.2	15.5	14.8	12.2	20.7	15.3	15.7	13.0

Discussion

Both chemical and biological monitoring indicate the good quality of this river. Habitat is ideal for a variety of stream life, and includes a variety of substrates, plenty of woody snags, riffles, and pools. Water chemistry monitoring done at various locations on the Rum River throughout Anoka County found that water quality is also good. Both habitat and water quality decline, but are still good, in the downstream reaches of the Rum River where development is more intense and the Anoka Dam creates a slow moving pool.

Historically, biomonitoring near Anoka was conducted mostly in a backwater area that has a mucky bottom and does not receive good flow. This area is unlikely to be occupied by families which are pollution intolerant. In recent years more sampling occurred in the main channel which has more diverse habitat. This change in sampling explains the apparent improvement in the invertebrate community in recent years.



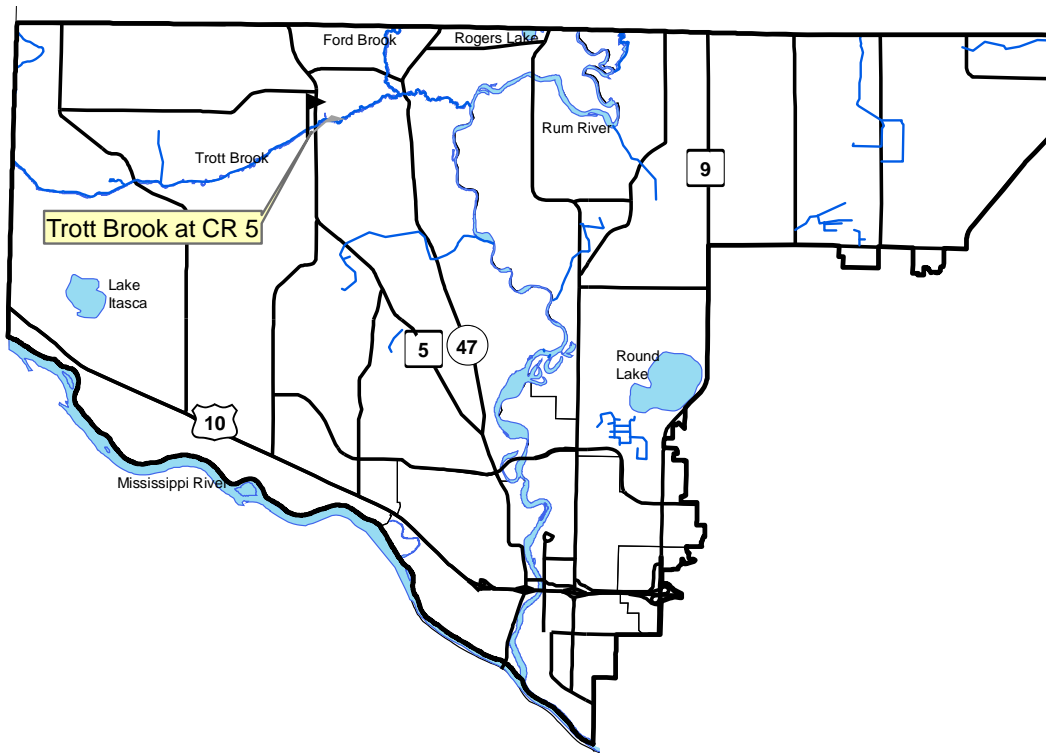
Stream Hydrology

Description: Continuous water level monitoring in streams.

Purpose: To provide understanding of stream hydrology, including the impact of climate, land use or discharge changes. These data are also needed for calculation of pollutant loads and use of computer models for developing management strategies. In the Sunrise River Watershed, the monitoring sites are the outlets of the Sunrise River Watershed Management Organization's jurisdictional area, thereby allowing estimation of flows and pollutant loads leaving the jurisdiction.

Locations: Trott Brook at County Road 5

Lower Rum River Watershed Stream Hydrology Monitoring Sites



Stream Hydrology Monitoring

TROTT BROOK

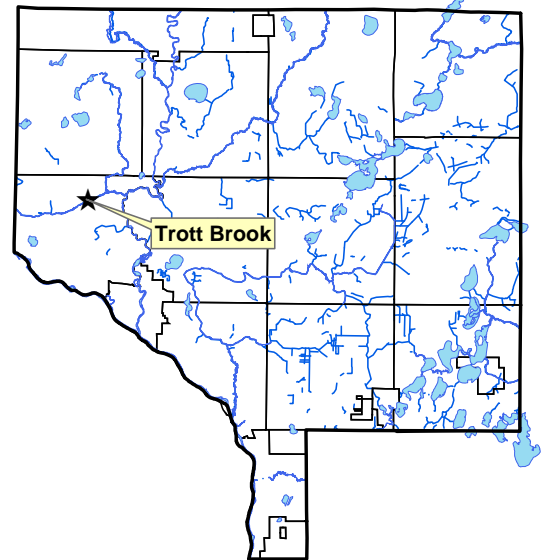
at County Road 5 (Nowthen Blvd NW), Ramsey
 STORET SiteID = S003-176

Notes

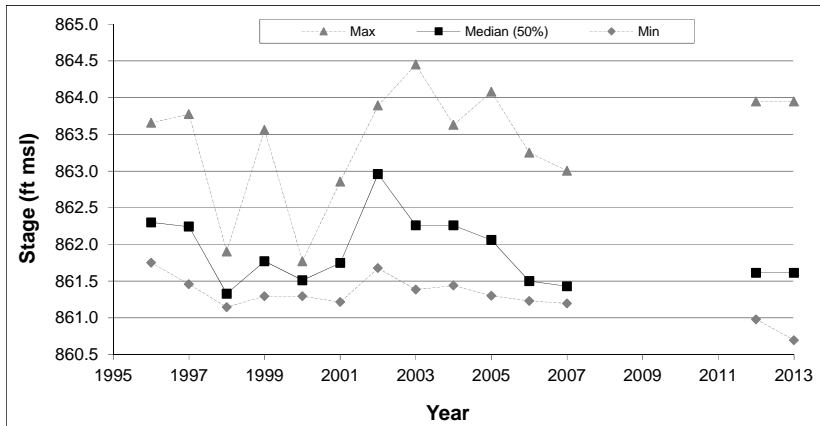
Trott Brook is a medium-sized creek that flows south through Sherburne County, paralleling the Anoka-Sherburne County boundary before turning east through the City of Ramsey where outlets to the Rum River. Overall, the watershed is rural or suburban residential, and areas within the watershed are undergoing rapid development. The creek is about 25 feet wide and 2.5 feet deep at the monitoring site during baseflow.

A rating curve for this site was developed in 2013:

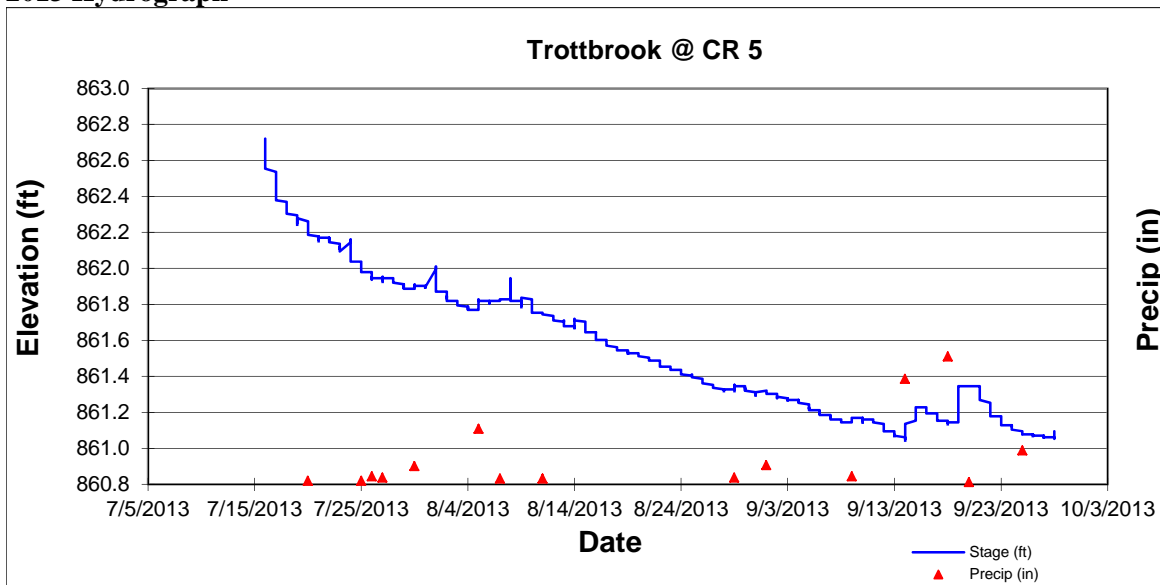
$$\text{Flow (cfs)} = 16.39(\text{stage}-859)^2 - 63.716(\text{stage}-859) + 65.908$$



Summary of All Monitored Years



2013 Hydrograph



Stream Rating Curves

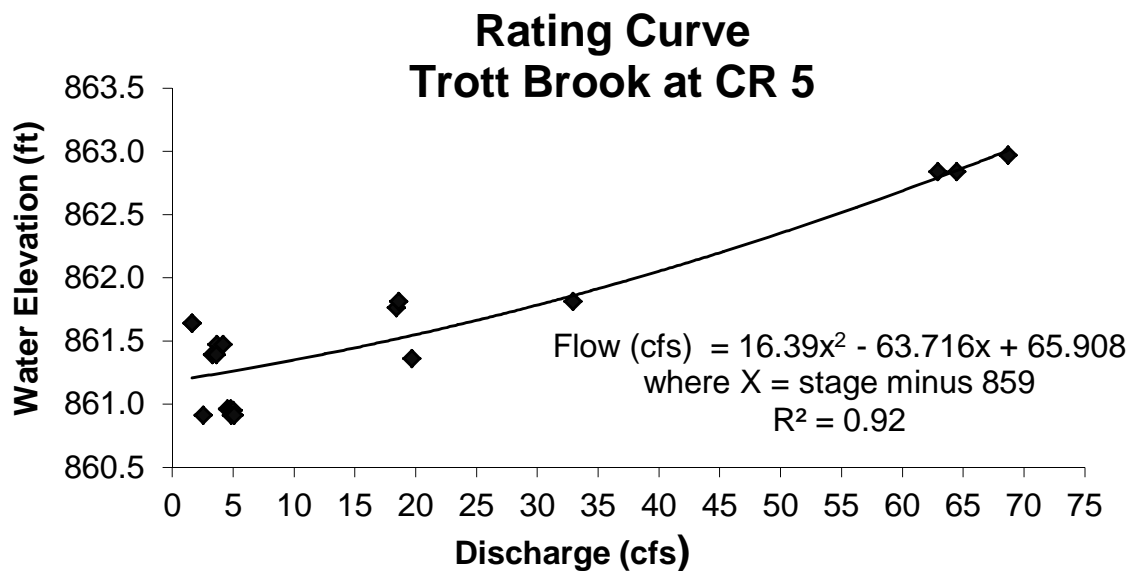
Description: Rating curves are the mathematical relationship between water level and flow volume. They are developed by manually measuring flow at a variety of water levels. These water level-flow measurements are plotted and the equation of a line best fitting these points is calculated. That equation allows flow to be calculated from water level measurements. Continuous water level monitoring in streams.

Purpose: To allow flow to be calculated from water level, which is easier to monitor.

Locations: Trott Brook at County Road 5

Results: In 2013 ACD staff manually measured flow in Trott Brook under a variety of water level conditions. 19 such measurements were used to develop the rating curve presented below. The equation was used to calculate flow from continuous stream water level monitoring measurements.

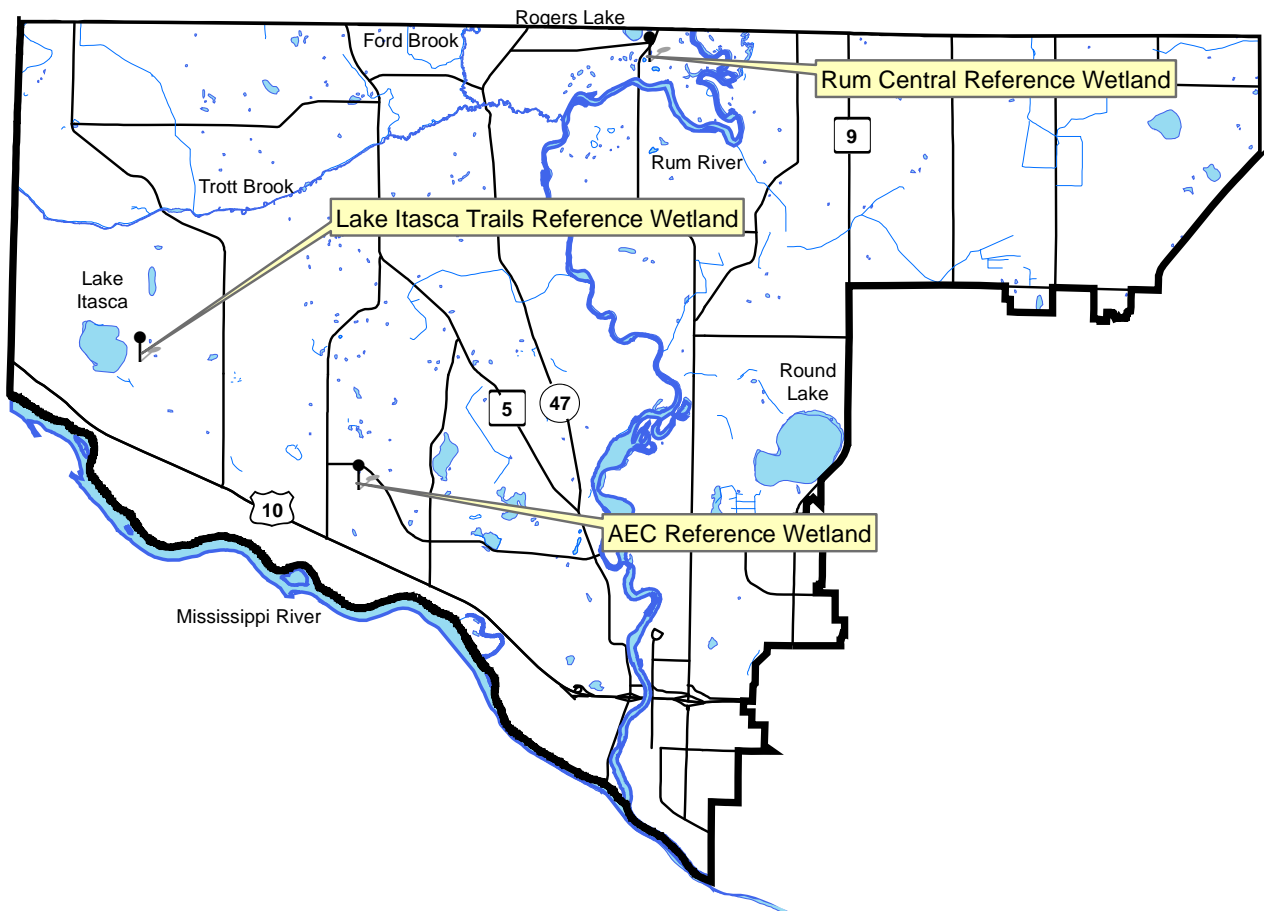
Trott Brook at County Road 5 Rating Curve



Wetland Hydrology

- Description:** Continuous groundwater level monitoring at a wetland boundary to a depth of 40 inches. County-wide, the ACD maintains a network of 23 wetland hydrology monitoring stations.
- Purpose:** To provide understanding of wetland hydrology, including the impact of climate and land use. These data aid in delineation of nearby wetlands by documenting hydrologic trends including the timing, frequency, and duration of saturation.
- Locations:** AEC Reference Wetland, Connexus Energy Property on Bunker Lake Blvd, Ramsey
Rum River Central Reference Wetland, Rum River Central Park, Ramsey
Lake Itasca Trail Reference Wetland, Lake Itasca Park, Ramsey
- Results:** See the following pages. Raw data and updated graphs can be downloaded from www.AnokaNaturalResources.com using the Data Access Tool.

Lower Rum River Watershed Wetland Hydrology Monitoring Sites



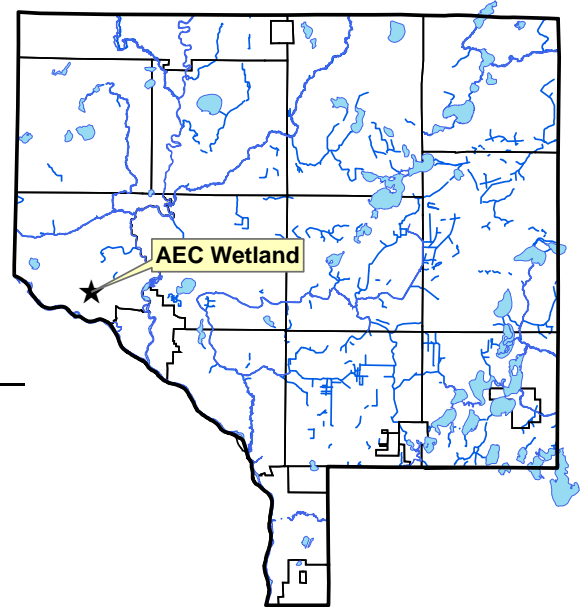
Wetland Hydrology Monitoring

AEC REFERENCE WETLAND

Cottonwood Park, adjacent to Connexus Energy Offices (formerly Anoka Electric Coop), Ramsey

Site Information

Monitored Since: 1999
Wetland Type: 3
Wetland Size: ~18 acres
Isolated Basin? No, probably receives storm water
Connected to a Ditch? No



Soils at Well Location:

Horizon	Depth	Color	Texture	Redox
A	0-15	10yr2/1	Sandy Loam	-
Bw	15-40	10yr3/2	Gravelly Sandy loam	-

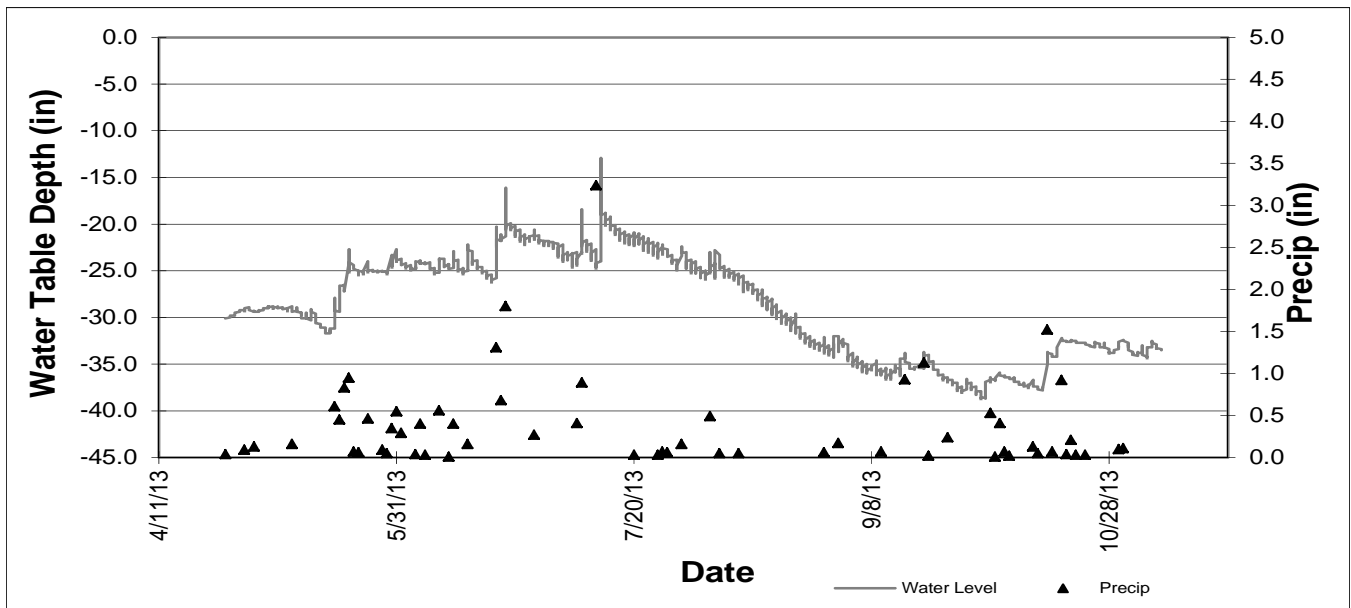
Surrounding Soils: Hubbard coarse sand

Vegetation at Well Location:

Scientific	Common	% Coverage
Populus tremuloides	Quaking Aspen	30
Salix bebbiana	Bebb Willow	30
Carex Spp	Sedge undiff.	30
Solidago canadensis	Canada Goldenrod	20

Other Notes: Well is located at the wetland boundary.

2013 Hydrograph



Well depth was 42 inches, so a reading of -42 indicates water levels were at an unknown depth greater than or equal to 42 inches.

Wetland Hydrology Monitoring

RUM RIVER CENTRAL REFERENCE WETLAND

Rum River Central Regional Park, Ramsey

Site Information

Monitored Since: 1997
Wetland Type: 6
Wetland Size: ~0.8 acres
Isolated Basin? Yes
Connected to a Ditch? No

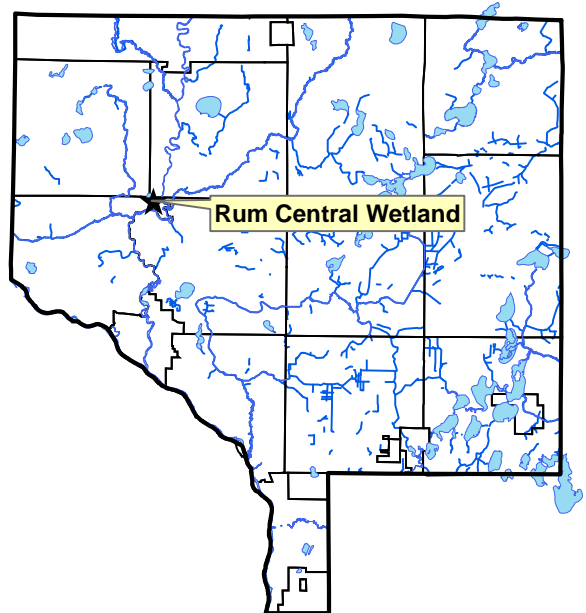
Soils at Well Location:

Horizon	Depth	Color	Texture	Redox
A	0-12	10yr2/1	Sandy Loam	-
Bg1	12-26	10ry5/6	Sandy Loam	-
Bg2	26-40	10yr5/2	Loamy Sand	-

Surrounding Soils: Zimmerman fine sand

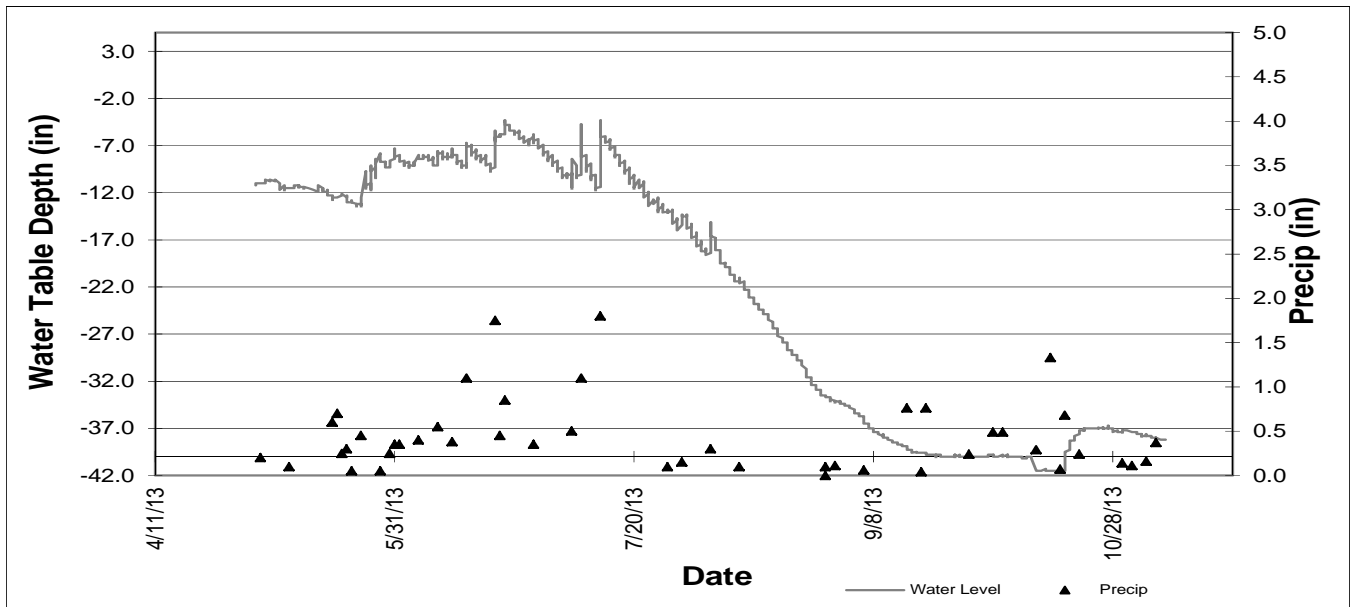
Vegetation at Well Location:

Scientific	Common	% Coverage
Phalaris arundinacea	Reed Canary Grass	40
Corylus americanum	American Hazelnut	40
Onoclea sensibilis	Sensitive Fern	30
Rubus strigosus	Raspberry	30
Quercus rubra	Red Oak	20



Other Notes: Well is located at the wetland boundary.

2013 Hydrograph



Well depth was 40 inches, so a reading of -40 indicates water levels were at an unknown depth greater than or equal to 40 inches.

Wetland Hydrology Monitoring

LAKE ITASCA TRAILS REFERENCE WETLAND

Lake Itasca Trails Park, Ramsey

Site Information

Monitored Since: 2013
Wetland Type: 2/6
Wetland Size: ~10 acres
Isolated Basin? Yes
Connected to a Ditch? No

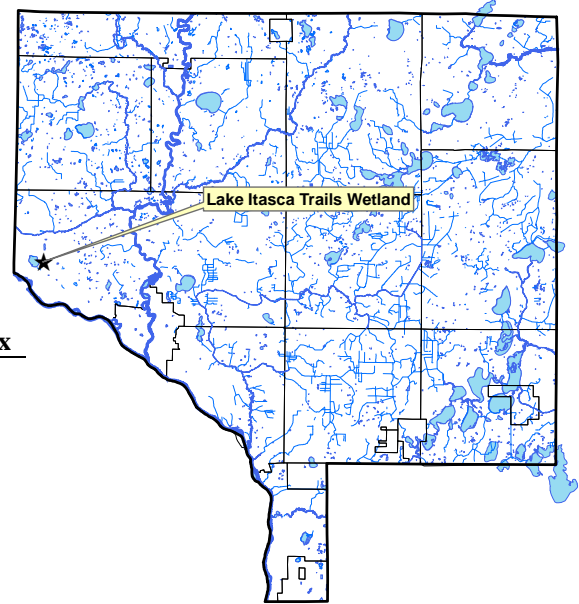
Soils at Well Location:

Horizon	Depth	Color	Texture	Redox
A1	0-12	10yr2/0	Mucky sand	-
A2	12-20	10ry2/1	Sand	-
B1	20-36	10yr4/1	Sand and fine gravel	-
B2	36-48	10yr6/1	Sand and fine gravel	-

Surrounding Soils: Hubbard coarse sand

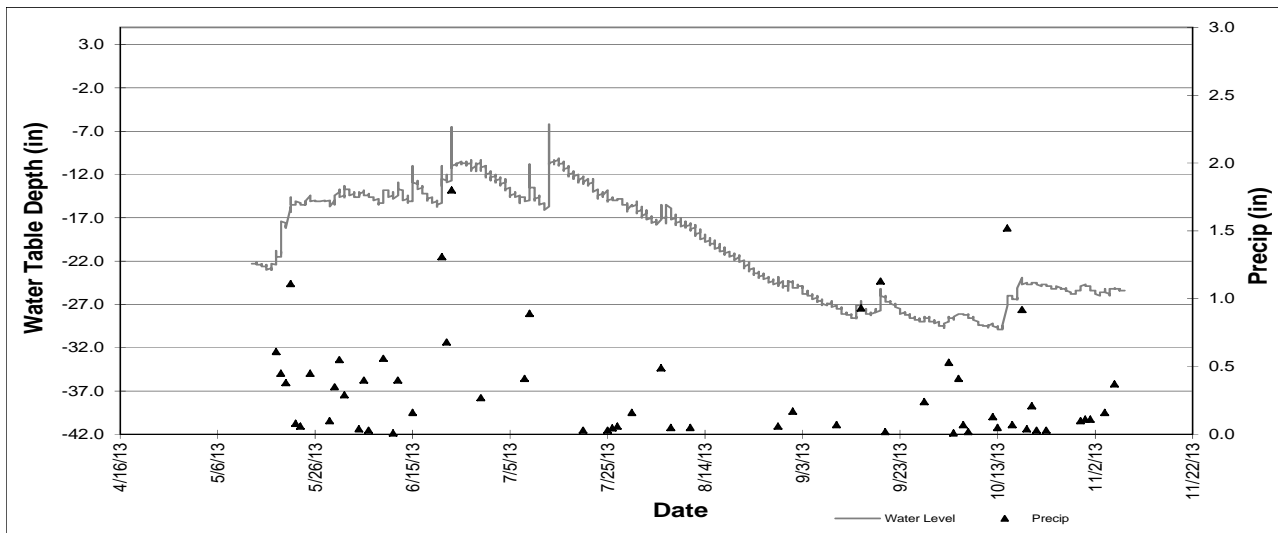
Vegetation at Well Location:

Scientific	Common	% Coverage
Carex stricta	Hummock Sedge	80
Phalaris arundinacea	Reed Canary Grass	20
Salix sp.	Willow	20
Rubus sp.	Bristle-berry	5



Other Notes: Well is located about 10 feet east and about 6 inches downslope of the wetland boundary. DNR Public Water Wetland 2-339.

2013 Hydrograph



Well depth was 40 inches, so a reading of -40 indicates water levels were at an unknown depth greater than or equal to 40 inches.

Water Quality Grant Fund

Description: The LRRWMO provided cost share for projects on either public or private property that will improve water quality, such as repairing streambank erosion, restoring native shoreline vegetation, or rain gardens. This funding was administered by the Anoka Conservation District, which works with landowners on conservation projects. Projects affecting the Rum River were given the highest priority because it is viewed as an especially valuable resource.

Purpose: To improve water quality in lakes streams and rivers by correcting erosion problems and providing buffers or other structures that filter runoff before it reaches the water bodies.

Results: Projects receiving grant funds are reported in the year they are installed. In 2013 the Geldacker Mississippi Riverbank Stabilization used \$1,431.20 of LRRWMO cost share dollars.

LRRWMO Cost Share Fund Summary

2006 LRRWMO Contribution	+	\$1,000.00
2008 Expense – Herrala Rum Riverbank stabilization	-	\$ 150.91
2008 Expense – Rusin Rum Riverbank stabilization	-	\$ 225.46
2009 LRRWMO Contribution	+	\$1,000.00
2009 Expense – Rusin Rum Riverbank bluff stabilization	-	\$ 52.05
2010 LRRWMO Contribution	+	\$ 0
2010 LRRWMO Expenses	-	\$ 0
2011 LRRWMO Contribution	+	\$ 0
2011 Expense - Blackburn Rum riverbank	-	\$ 543.46
2012 LRRWMO Contribution	+	\$1,000.00
2012 Expense – Smith Rum Riverbank	-	\$1,596.92
2013 LRRWMO Contribution	+	\$1,000.00
2013 Expense – Geldacker Mississippi Riverbank	-	\$1,431.20
Fund Balance		\$ 0.00

Geldacker Mississippi River Stabilization

Funding for this project has been allocated, but not yet distributed. Work is currently underway but not yet completed. The project will stabilize approximately 100 linear feet of severely eroding riverbank on the Mississippi River. The landowner has been losing approximately 1 foot of shoreline per year. This project will reduce the sediment load directly discharged to the Mississippi by about 1,600 cubic feet/year. The use of native grasses will also provide some food/habitat along the river corridor.

Due to the project being located on a cut bank (outside bend) of the river, the project required engineering and funds were secured through NPEAP to complete the design. The design consists of hard-armoring (riprap) the toe of the slope up to the 10-year flood elevation. Above the riprap, the slope will be stabilized using a permanent turf reinforcement mat (Armormax) and a certified MNDOT native seed mix to provide long-term stabilization.

Project Funding

LRRWMO Water Quality Cost Share	\$1,431.20
Ag Preserves Conservation	\$1,711.31
Ag Preserves Water Quality Cost Share	\$35.37
Ag Preserves Natural Resource Conservation	\$4,000.00
Landowner	\$27,822.12
TOTAL	\$35,000.00



Wetland Public Education

Website – Wetland Regulatory Information

Description: The Lower Rum River Watershed Management Organization (LRRWMO) contracted the Anoka Conservation District (ACD) to create a one-stop-shop website with information for landowners about wetland regulation.

Purpose: To improve public understanding of wetland regulation with the aim of decreasing inadvertent violations.

Location: Watershed-wide

Results: The Anoka Conservation District (ACD) substantially increased information on the ACD's website about wetland regulation, adding pages about:

- The MN Wetland Conservation Act
- Agencies
- Request for assistance form
- Map and contact information for local governmental units (LGU's) with permitting authority
- Frequently asked questions

This website will be linked from LGU and WMO websites.

The LRRWMO discussed whether this information should be on the WMO website. It was determined it was better placed on ACD's website so that it showed and included portions of member cities that are outside of the LRRWMO.

Newsletter

Description: The Lower Rum River Watershed Management Organization (LRRWMO) contracted the Anoka Conservation District (ACD) to create a series of public education newsletter articles.

Purpose: To improve public understanding of the LRRWMO, its functions, and accomplishments.

Location: Watershed-wide


Results: The Anoka Conservation District (ACD) drafted two newsletters and sent each to local community leaders as well as local newspapers. Each was printed in several city newspapers. Both newsletters focused on public education regarding wetlands. The articles included information on recognizing wetlands as well as their values and benefits. Brief explanations of wetland regulations and penalties for rule violations were included in both articles. Directives on how to acquire additional information regarding wetlands were also provided.

STAY OUT OF HOT WATER AROUND WETLANDS

As warm weather comes so do questions about wetlands. Outdoor projects in and around wetlands can get the owner into "hot water" if proper permits are not obtained. The laws are complex. And "I didn't know" is not an acceptable excuse. But help does exist...for free! Your local watershed organization and the Anoka Conservation District can be your guide.

Wetlands are areas in the landscape that naturally have saturated soils or standing water. Along with the presence of water, soils and vegetation are also used to define legal wetland boundaries. Professional wetland delineators determine the wetland boundary. The water edge is not necessarily the same as a wetland boundary.

Some wetlands rarely have standing water. These seasonal wetlands have a high water table in the spring and then dry out later in the year.



Lower Rum River Watershed Management Organization
<http://www.anokanaturalresources.com/lrrwmo>
 Phone: 763-767-5131

Coon Creek Watershed District
www.cooncreekwd.org
 Phone: 763-755-0975

Anoka Conservation District
www.anokawcd.org
 Phone: 763-434-2030

Filling, draining, excavating, or building within a wetland boundary are all regulated. Unauthorized work within wetlands may result in a Restoration Order, a legal order to put the wetland back the way it was, often at substantial expense to the landowner/violator.

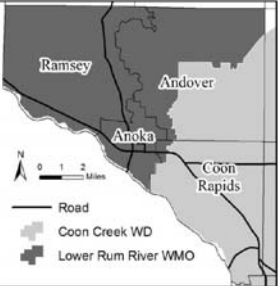
Recognizing the complexity of the wetland laws, local communities provide experts to guide landowners to help keep them out of "hot water." So, before starting any project around a wetland, contact your local watershed organization or the Anoka Conservation District, they will be happy to help you.

FROGS MARK THE SPOT

As projects get into full swing, listen for frogs to help direct your work. For the industrious human, frog calls mean "watch out, this is a wetland right here." And, knowing the location of wetlands is important because some activities within wetlands are regulated, even on private lands.

Not all wetlands are permanently flooded. Many may be wet only a few weeks per year, which is enough for the frogs... and the law. If you have a low spot on your property that harbors frogs, even if only briefly, this area may be a wetland. And the legal wetland boundary is probably higher on the landscape than you think- it's defined by soils, vegetation, and hydrology.

Wetlands cover about 20% of Anoka County, nearly twice as much as any county in the 7-county metro area.



Lower Rum River Watershed Management Organization
<http://www.anokanaturalresources.com/lrrwmo>
 Phone: 763-767-5131

Coon Creek Watershed District
www.cooncreekwd.org
 Phone: 763-755-0975

Anoka Conservation District
www.anokawcd.org
 Phone: 763-434-2030

Wetlands are so valuable to wildlife and water quality that federal, state, and local rules exist. So, before starting any project around a wetland, contact your local watershed organization or the Anoka Conservation District, they will be happy to help you.

Presentation to local officials

Description: The Lower Rum River Watershed Management Organization (LRRWMO) contracted the Anoka Conservation District (ACD) to create a presentation and use it to educate local officials on wetlands as part of watershed management.

Purpose: To improve LRRWMO public officials understanding of watershed responsibilities, wetland regulation, and the Rum River WRAPP Project.

Location: Watershed-wide

Results: The Anoka Conservation District (ACD) delivered a presentation to local officials at a spring 2013 LRRWMO meeting. The presentation provided local officials with information of their land and water management responsibilities within a watershed. As part of the presentation wetland functions, regulations, and their benefit to watershed management were also covered. The presentation closed with information regarding the Rum River Watershed Restoration and Protection Plan (WRAPP).

WMO vs City Responsibilities

WMOs manage system is

Cities manage local issu

2. Wetlands Affect Many Residents

13% of LRRWMO is wetland

Is this a wetland?

■ Yes – Hardwood swamp

Property owner wetland education packet

Description: The Lower Rum River Watershed Management Organization (LRRWMO) contracted the Anoka Conservation District (ACD) to create a wetland education packet to be sent out to LRRWMO residents.

Purpose: To improve LRRWMO public understanding of wetlands and wetland regulation.

Location: Watershed-wide

Results: The Anoka Conservation District (ACD) sent informational brochures to over 2,000 properties containing, or adjacent to, wetlands. Each brochure contained a neighborhood level map to illustrate the locations of wetlands near them. The packet also includes educational information, illustrates the varying types of wetlands, wetland values, and regulatory/permitting information.

Anoka County Wetland Types

There are at least **eight types of wetlands** in Anoka County. Experts use our understanding of water, soils, and plants to identify wetland types and to delineate wetland boundaries.

 Type 1 Seasonal Wetland	 Type 5 Shallow Open Water
 Type 2 Wet Meadow	 Type 6 Shrub Wetland
 Type 3 Shallow Marsh	 Type 7 Hardwood Swamp
 Type 4 Deep Marsh	 Type 8 Bog

Wetlands Are Regulated

<p>Lower Rum River WMO Local/State Rules</p> <p>MN DNR State Public Water Rules</p> <p>U.S. Army Corps of Engineers Federal Rules</p>	<p>Local, state, and federal rules regulate impacts to wetlands. Please contact the following agencies before impacting a wetland.</p> <p>Wetland impacts include draining, filling, and excavation.</p>
--	---

Prepared by the
ANOKA CONSERVATION DISTRICT

Informational wetlands map inside.

Lower Rum River WMO
2015 Freshwater
Watershed
www.lrrwmo.org

I HAVE WETLANDS ON MY LAND?

A HOMEOWNERS GUIDE TO WETLANDS

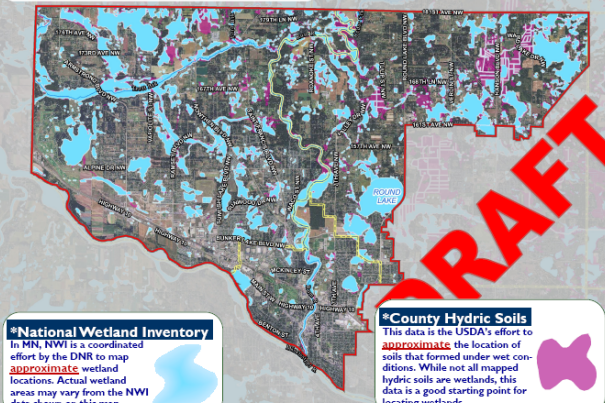


Published by:
Lower Rum River Watershed Management Organization
www.lrrwmo.org

A PARTNERSHIP OF THE CITIES OF ANDOVER, ANOKA, AND RAMSEY

Informational Wetlands Map

This map shows publicly available mapping data of approximate wetland locations. Since this data is approximate, actual wetland areas may vary



***National Wetland Inventory**
In MN, NWI is a coordinated effort by the DNR to map approximate wetland locations. Actual wetland areas may vary from the NWI data shown on this map.

***County Hydric Soils**
This data is the USDA's effort to approximate the location of soils that formed under wet conditions. While not all mapped hydric soils are wetlands, this data is a good starting point for locating wetlands.

*These are NOT official wetland boundaries; data are for general reference only. Official wetland boundaries are delineated according to the 1987 USACE manual and must be approved by your WCA LGU and the USACE (www.bwsr.state.mn.us).

Map Created: 1/2013

Greetings from the Lower Rum River WMO!

The purpose of this publication is to help LRRWMO residents better understand the wetlands resources that may be on their lands.


← **Check out the map to the left.** Public mapping data indicates that there are many wetland areas within the Lower Rum River WMO. Most people have seen wetlands with cattails and lily pads, but not all wetlands look the same. Some wetlands are only wet part of the year and some are covered in trees and shrubs.

Why are wetlands important? Wetlands offer many public benefits, including plant and wildlife habitat, improved water quality, flood control, recreation, and educational opportunities. Anoka County has more wetlands than any other county in the 7-county metro area. Anoka County wetlands provide habitat for numerous rare plant species, including several that have been found nowhere else in the state.

How do I know if I have a wetland on my land? Wetland experts use soils, vegetation, and hydrology data to define legal wetland boundaries. Contact your city to determine if wetland boundaries have been noted on city documents such as Certificate of Surveys. If official wetland boundaries have not yet been identified on your land, visit the Anoka County website gis.anokacounty.mn.gov/cswr/ for approximate NWI wetland areas, or hire a wetland expert to delineate the official wetland boundary.

Wetlands in Anoka County are protected. Regulated wetland activities include draining, filling, and excavation within certain wetlands. Please contact your LRRWMO representative before starting any activity that may impact a wetland.

Sincerely,
Lower Rum River Watershed Management Organization
www.lrrwmo.org



Review Member Communities' Local Water Plans

- Description:** Member cities must have local water plans and ordinances consistent with the LRRWMO 3rd Generation Watershed Management Plan (MN Rules 8410.0130 and 84100160). The LRRWMO has approval authority over the Local Water Management Plans. Once a community submits their updated Local Water Management Plan to the WMO for review, the WMO has 60 days to provide comments. The Metropolitan Council has a simultaneous 45 day review period, and the WMO's review of the Plan must include a review of Metropolitan Council's comments. The LRRWMO has requested that the ACD assist with their review of local water plans as they are completed. It was anticipated that communities will submit plans for review in 2013.
- Purpose:** To ensure the policies and actions in the LRRWMO 3rd Generation Watershed Management Plan are implemented consistently across the watershed.
- Location:** Watershed-wide
- Results:** As of January 16, 2014 Anoka has submitted their local water plan updates, Ramsey will be submitting theirs in early 2014, and the submittal date for Andover has been extended.

Web Video

- Description:** As part of the LRRWMO's public education plan web videos are being used to convey conservation messages. The ACD was asked to create a web video about water conservation and post it on the LRRWMO website.
- Purpose:** To education the public about aquifer sustainability and water use.
- Location:** Watershed-wide
- Results:** ACD The web video about water conservation will be completed by the deadline of March 31, 2014.

LRRWMO Website

Description: The Lower Rum River Watershed Management Organization (LRRWMO) contracted the Anoka Conservation District (ACD) to design and maintain a website about the LRRWMO and the Lower Rum River watershed. The website has been in operation since 2003. A new website and domain for the LRRWMO was created by ACD in 2013.

Purpose: 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.

Location: LRRWMO.org

Results: In 2013 the ACD upgraded, redesigned, and re-launched the LRRWMO website. These updates were necessary because the old website platform was incompatible with certain tablet computers and smartphones. Additionally, the old website was hosted with in the ACD website, while the new website is completely independent, offering the WMO future management choices.

The LRRWMO website contains information about both the LRRWMO and about natural resources in the area. Information about the LRRWMO includes:

- a directory of board members,
- meeting minutes and agendas,
- watershed management plan and annual reports,
- descriptions of work that the organization is directing,
- highlighted projects.

2013 New LRRWMO Website Homepage



Financial Summary

ACD accounting is organized by program and not by customer. This allows us to track all of the labor, materials and overhead expenses for a program. We do not, however, know specifically which expenses are attributed to monitoring which sites. To enable

reporting of expenses for monitoring conducted in a specific watershed, we divide the total program cost by the number of sites monitored to determine an annual cost per site. We then multiply the cost per site by the number of sites monitored for a customer.

Lower Rum River Watershed Financial Summary

Lower Rum River Watershed	Volunteer Precip	Ref Wet	Ob Well	Lake Lvl	Stream WQ - SWAG	SWAG Admin/Reporting	WOMP	Student Biomon	LRRWMO Admin	WMO Annual Rpts to State	LRRWMO Outreach/Promo	WMO Website Maint	WMO Website Migration	Rum River WRAPP	Projects	Total
Revenues																
LRRWMO	0	1680	0	800	0	0	0	825	0	850	8020	525	875	0	0	13575
State	0	0	131	0	11545	796	0	0	0	0	0	0	0	7459	0	19930
Anoka Conservation District	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anoka Co. General Services	0	0	177	0	0	544	0	0	0	0	982	0	-24	0	0	1679
County Ag Preserves	0	0	0	0	0	0	0	349	0	0	0	0	0	0	48	397
Regional/Local	0	0	0	0	0	0	720	0	0	0	0	0	0	0	0	720
Other Service Fees	0	0	0	0	0	0	0	0	0	0	0	0	0	0	404	404
BWSR Cons Delivery	0	0	0	0	0	0	38	0	256	0	0	0	0	0	0	294
BWSR Cost Share TA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	441	441
Local Water Planning	59	0	33	5	0	0	0	0	0	0	0	0	0	0	0	97
TOTAL	59	1680	340	805	11545	1340	758	1174	256	850	9002	525	851	7459	893	37537
Expenses-																
Capital Outlay/Equip	0	16	4	10	4607	21	7	11	5	4	95	5	9	34	14	4842
Personnel Salaries/Benefits	49	1014	284	686	3273	1114	629	992	208	502	7658	316	451	2211	740	20128
Overhead	5	67	23	47	204	77	61	67	14	47	605	28	29	209	53	1536
Employee Training	0	4	1	4	16	5	1	8	1	0	34	1	1	6	3	86
Vehicle/Mileage	1	17	4	13	56	19	8	20	4	6	125	5	6	31	12	325
Rent	3	46	15	31	144	52	37	43	10	29	387	18	21	127	36	998
Program Participants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program Supplies	0	1	0	0	3114	0	0	32	0	0	0	0	312	4727	1	8187
McKay Expenses	0	19	8	15	131	52	14	0	15	0	100	13	22	112	36	536
TOTAL	59	1183	340	805	11545	1340	758	1174	256	590	9002	385	851	7459	893	36639
NET	0	497	0	0	0	0	0	0	0	260	0	140	0	0	0	898

Recommendations

- **Actively participate in the MPCA Rum River WRAPP (Watershed Restoration and Protection Plan) which began in 2013.** This WRAPP is an assessment of the entire Rum River watershed. This is an opportunity for the LRRWMO to prioritize and coordinate efforts with upstream entities and state agencies. TMDL studies with regulatory implications will likely arise out of this project.
- **Diagnose low dissolved oxygen in Trott Brook.** A TMDL study through the Rum River WRAP project is likely.
- **Remind LRRWMO Cities that local water plans must be updated.**
- **Implement water conservation measures** throughout the watershed and promote it metro-wide. Depletion of surficial water tables are having observable, sometimes dramatic, impacts on some lake levels and wetlands. Metropolitan Council models predict 3+ft drawdown of surface waters in certain areas by 2030, and 5+ft by 2050.
- **Continue lake level monitoring, especially on Round Lake** where residents have expressed concerns with levels. Other nearby lakes should be monitored for comparison and problems.
- **Emphasize protection of Rum River water quality.** The river's water quality declines slightly in the LRRWMO and anticipated future development could cause further deterioration.
- **Complete a stormwater retrofitting assessment for the City of Anoka.** The project will identify and rank projects that improve stormwater runoff before it is discharged to the Rum River.
- **Continue the existing cost share grant program for water quality improvement projects** on private properties.