Carver County Water Management Organization

Citizen Advisory Committee

1. **Roll call**

2. **Approval of the March 26, 2024, minutes**

3. **Approval of the April 30, 2024, agenda**

4. **Notes from the field**
   a. Watertown wetland restoration

5. **Business items**
   a. 2025 Capital Improvement Projects

6. **Information items & project updates**
   a. Government Center Prairie Burn
   b. Change in meeting location

7. **Next meeting**
   May 28, 2024

8. **Adjournment**

April 30, 2024

Meetings held at the Carver County Government Center, EOC conference room, 600 East 4th St. Chaska, MN 55318. Virtual option with Microsoft Teams. Contact mseveland@co.carver.mn.us for details.

6:00 p.m. to 8:00 p.m.

Committee Mission

Work with CCWMO staff to proactively make recommendations to the County Board on matters relating to water management including;

- **projects and project prioritization**
- **Funding and water levy**
- **Water Plan, Groundwater Plan & Solid Waste Plan**
- **Water quality and TMDL program and projects**
- **Education program and projects**
- **Feasibility studies**

Carver County Water Management Organization

MEETING OF THE
CARVER COUNTY WATER MANAGEMENT ORGANIZATION ADVISORY COMMITTEE
MEETING MINUTES
Tuesday March 26, 2024

COMMITTEE MEMBERS PRESENT

Attending virtually

Jim Boettcher	*Citizen representing Commissioner District 1*
Mike Lynch	*Citizen representing Commissioner District 4*
Michael Wegner	*Citizen, Crow River*
Carroll Aasen	*Citizen, East & West Chaska Creek*

Attending in person

Kayla Pascoe	*Citizen, Carver Creek*
Stan Wendland	*SWCD Board Representative*

COMMITTEE MEMBERS ABSENT

Mary Strother	*Citizen, Bevens Creek*
Marcus Zbinden	*SWCD Board Representative alt*
Kevin Zahler	*Citizen representing Commissioner District 2*
Nathan Lindall	*Citizen representing Commissioner District 3*
Lori Cox	*Citizen representing Commissioner District 5*

STAFF PRESENT

Paul Moline	*Carver County Planning & Water Mgmt.*
Mike Wanous	*Carver County Soil & Water Conservation District*
Kristen Larson	*Carver County Planning & Water Mgmt. (attending virtually)*

Meeting Minutes

The meeting was called to order at 6:03 p.m. by Aasen.

1) Roll call completed.

2) Approval of the March 5, 2024, meeting minutes.
   Pascoe moved to approve the March 5, 2024, meeting minutes. Wendland seconded. Motion passed unanimously.

3) Approval of March 26, 2024, agenda.
   Lynch moved to approve the March 26, 2024, agenda. Wegner seconded. Motion passed unanimously.

4) Notes from the field
   Andy Edgcumbe presented on chloride monitoring results.

Background

- Chloride compounds are natural in our environment.
- Too much salt in freshwater streams and lakes can be toxic to freshwater organisms, prevent lake turnover, and cause infrastructure damage.
- The Minnesota state standard for chloride impairment is 230 mg/L for chronic toxicity. This equates to 1 tsp of sodium chloride in a 5-gallon bucket of water.
- The Canada standard for chloride impairment is lower at 120 mg/L. Studies have shown that amounts higher than 120 mg/L can be toxic to zooplankton.
- 78% of chloride applied on the landscape remains in the environment.

Winter season comparisons between 2022-2023 and 2023-2024 seasons

- This winter (2023-2024 season) had significantly less snowfall and warmer temperatures that the previous year.
- This winter, the lake ice was less safe, thus more samples were taken at lake outlets rather in the middle of the lake.

Monitoring and results

- Edgcumbe shared a map showing monitoring locations at Benton Lake, Hazeltine Lake, and Meuwissen Lake.
- Samples from this winter all showed a decrease in chloride levels. Much of this is due to a lack of snow and ice and reduced application of de-icing salts.
- Monitoring is scheduled based on snowstorms. Staff grab samples before and after the storms. Samples taken after storms always have higher chloride levels.

Pascoe inquired if private snow removal companies do the salt applications for businesses around Lake Hazeltine. Edgcumbe responded he believes so. Seveland commented that it is likely. Businesses will often hire private companies who typically provide lawn care in the summer and snow removal/de-icing services in the winter. She added that private companies are not as often certified through the state's smart salt training. They are a more difficult group to identify and market the trainings to. Moline added that it can be difficult to require salt applicators to attend the trainings.

Wendland asked if applicators need to be licensed. Seveland responded that the smart salt training is a voluntary certificate.

Wendland inquired what the liability climate is like for slips and falls. Seveland responded that liability is one of the drivers for over application of salt, as well as public perception that more salt is safer. The past few years there have been bills proposed in the state legislature that would provide limited liability to contractors who are certified and practice smart salt techniques, thus protecting them from slip and

fall related lawsuits. The bills have not passed. She mentioned that there are some model policies and ordinances on the state's chloride information website that local governments can consider and adopt.

Lynch commented that even if businesses go through the training, often there may be different staff on site doing the actual chloride application. Seveland responded that she has developed and been distributing a chloride business education packet to local business for that very reason. The packet is designed to educate staff that might be adding salt to doorways or walkways. She has so far visited businesses in Chaska, Waconia, Watertown, and Carver, but paused the distribution for the rest of this year due to the lack of snow.

Wegner shared another potential avenue for outreach, through the business where contractors purchase their equipment. Seveland responded that avenue has not been used yet. Moline inquired about the calibration options for that equipment. Wegner said anything down to a push spreader can be calibrated.

Boettcher inquired if any cities were using brine or pickle brine. Edgcumbe responded that Waconia uses brine. Wegner added that Chanhassen uses a sugar beet product called Beet Heat, which is an activator brine that is injected into the salt.

Lynch commented that brine might the option to get more businesses to be safe and use less salt.

Pascoe inquired what type of businesses were around Lake Hazeltine. Moline responded it is a lot of manufacturing with some residential.

5) Business items

- **Watershed Based Implementation Funding**

Tim Sundby presented on the watershed based implementation funding process. This program is put forward by the state agency, the Board of Water & Soils Resources. This is a state grant with a non-competitive process.

Program areas

- There are three funding areas in Minnesota: outstate, metro area, and tribal.
    - Outstate eligibility requirements.
        - Must have a comprehensive watershed management plan (i.e. 1 watershed, 1 plan).
        - Local government units in the area must agree to implement together.
    - Metro area eligibility requirements.
        - Must have a watershed management plan, a county groundwater plan, or a soil and water conservation comprehensive plan.
        - Must host a convene group process.
    - Tribal eligibility requirements.

    - Must be identified within one of the plans listed above as their own entity and have their own projects specifically listed in that plan.

Funding amounts

- For fiscal year 2025-2027, the metro area was allocated $9 million for projects to be divided between 27 areas.
- Carver County was allocated $721,325; an increase of $30K from the last round.
- Funds do require a 10% match of cash or time. To meet this match, the WMO typically has used its levy and partnered with other entities for match requirements.
- All funds must be used by December 31, 2027.

Convene group structure and responsibilities

- Each convene group is made of voting members. One voting member for each water management organization, soil and water conservation district, county groundwater plan, and up to two decision making reps from municipalities within the allocation area.
- Sundby reviewed the Carver County convene group members.
    - Paul Moline, Carver County Watershed Management Plan.
    - Tim Sundby, Carver County Groundwater Plan.
    - Mike Wanous, Carver County Soil & Water Conservation District.
    - Local government unit representatives: Nick Johnson with City of Watertown, and Brent Alcott with City of Chaska.
- The decision-making process is agreed upon by the group and can be majority rule, consensus, or informed consent.
- The group establishes a method of selecting projects.
- The group is responsible for selecting the highest priority, targeted, and measurable projects.
- The group must select and confirm which entity will serve as the grantee and/or fiscal agent.

Prioritized, targeted, and measurable (PTM)

- It is required that all projects must be prioritized, targeted, and measurable.
- Prioritized means projects are evaluated for relative importance and precedence of the resources and issues identified in the County Water Management Plan.
- Targeted means projects are evaluated for the activity type, timing, and its location. Factors considered include how effective the activity is, if there are multiple outcomes, timing of multiple projects, the project's location in the watershed, nutrient loading hot spots, etc.
- Measurable means the projects are evaluated for a quantifiable change in resource condition expected after a project is implemented. For example, a reduction in phosphorus listed in pounds. WMO staff request this data in feasibility studies. It can show how tax dollars are effectively used and links to specific goals.
- All projects must have a primary benefit of improving water quality. A secondary benefit might be volume reduction or habitat improvement.

Potential projects

Sundby shared a draft list of potential projects including feasibility studies and projects.

- Feasibility studies
    - Eagle Lake internal load study
    - Wetland restoration identification and feasibility
    - Eagle Lake soluble phosphorus reduction study
- Projects
    - Big Woods ravine (has completed feasibility study)
    - Reitz Lake ravine (has completed feasibility study)
    - Carver Creek stream restoration (has completed feasibility study)
    - Seminary Fen C-2 ravine (has completed feasibility study)
    - South Fork cutoff (has completed feasibility study)
    - Lyman Bridge stream naturalization
    - Lake Bavaria sub-watershed assessment project
    - Big Woods goldfish management (has completed feasibility study)

Proposed project costs

- Total costs for 3 feasibility studies and 8 projects are $2.1 million. Available funding is $721,325. The convene group will need to trim down list of projects to meet the available funding and 10% match requirement.

Process

- Convene group will discuss submitted projects.
- Next the group will vote on which projects will be funded.
- All projects are submitted to Board of Water & Soil Resources for final approval.
- Contracts are awarded.
- Budgets and workplans are submitted to the Board of Water & Soil Resources.

Next steps

- Convene group will wrap up by end of May 2024 and submit projects to the Board of Water & Soils Resources.
- Earliest possible date to receive funding is July 1, 2024.

Wendland inquired when during the process elected groups can provide input, commenting that it must be prior to when the convene group assembles. Sundby responded that many of the projects included in this process are listed in the county water plan. The project selection process for that is complete and the convene group acts more as reviewers. Moline added that the County Board must approve grants and grant matches. Thus, many projects are brought before them throughout the process.

- **Education program update**

  Madeline Seveland presented on multiple education programs coming up this spring and summer.

  County wide Smartwater program with Rachio
  - Countywide program designed to increase residential use of smart irrigation controllers. These controllers reduce water used for irrigation and preserve drinking water resources.
  - Cities currently signed up include Chaska, Carver, Mayer, Watertown, Waconia, and Victoria.
  - Just by partnering with the County on this program, city residents automatically get a discount on controllers. Cities can choose to further subsidize the costs of controllers.

  Earth Day festival and Earth Day story times
  - Earth Day festival on May 4 is a partnership with the City of Chaska. Activities provided will include the Incredible Journey water cycle, a story walk, and a compost education station.
  - Earth Day story times are a partnership with County Libraries. Seveland visits each library and delivers the program. This year's theme is on rain gardens and recycling.

  Summer camps
  - Staff teach the following three summer camps with Carver County Parks.
    - Fishing camp teaches the junior aquatic invasive species inspector activity.
    - Summer Adventures provides a three-day macro-invertebrate day camp but may also substitute additional activities as needed.
    - Summer Explorers provides activities to District 112 kindergarten through 5th grade students. Topics include the water cycle, native plants, pollinators, etc.

  Well water testing kit distribution
  - Staff would like to encourage more residential well water testing, but testing can be difficult because samples are time sensitive, and the nearest lab is in Burnsville.
  - Staff are partnering with Environmental Services at the spring special waste events to provide well water testing kits to interested residents.
  - Residents can pick up a kit at the event and learn from staff on what and how to sample well water. Then they can return it to the same location a few days later at the designated sample drop off day.

  Discover Bugs
  - Program first launched last year with the name Evening with the Bugs.
  - Program is a partnership with the Minnesota Landscape Arboretum as it is hosted on their property at Spring Peeper Meadow.
  - Program will teach attendees of all ages about aquatic macro-invertebrates, their adaptations, and importance in our aquatic ecosystems.

  Shoreline restoration workshop

  - A workshop is being planned for late May or early June.

- The target audience is Lake Bavaria shoreline owners, but the program will be open to all County residents.
- Workshop's goal is to build awareness of the benefits of natural shorelines and resources on how to restore a shoreline.

Lake pledge

- This is an app developed by Hennepin County to build awareness about aquatic invasive species through videos and adoption of pledges.
- The app provides a platform for neighbor-to-neighbor education, uses local shoreline owners in the videos, and hosts a friendly competition in the form of a leaderboard to see which lake has the most pledges.
- Staff are gathering information on costs and process and will determine if it's a good fit for Carver County.

Lynch inquired if anyone has developed a Rachio controller for a townhouse association. Seveland responded that a townhouse association with multiple irrigation zones could purchase 2-3 Rachio controllers and link them together to use them. The program also does allow third party access, so a contractor could be given access to the app to manage the system.

Boettcher inquired about the score your shore monitoring process that was completed on Lake Bavaria a few years ago, resident's reactions to it, and if it resulted in changes. Seveland responded that she didn't know of any changes or improvements to shorelines because of the process, and that staff were very mindful of not sharing individual scores for each property. The website hosting the data shows summary data rather than individual data. Sundby added that landowners have not been informed of their individual score. The data has been used more of a conversation starter to improve the lake.

- **Maier cost share project**

Tim Sundby presented a new cost share application for a residential project in Dahlgren Township.

Proposed project

- There are two phases and locations of the project. The resident is applying to the WMO's landowner cost share project for one phase and applying to the Soil & Water Conservation District's pollinator cost share program for the other phase.
- The WMO funded project would convert 1.86 acres of agricultural land to native prairie. The other phase would convert 1.26 acres of turf to native prairie. The total project would convert 3.09 acres to native prairie.
- The proposed seed mix is 50% grass and 50% forbs and includes 31 forb and 11 grass species.
- The landowner is contracting with Prairie Restorations, Inc. to do the work.
- The costs to convert the 1.86 acres of agricultural land is $9,555. Total project costs for all three acres are $27,140.
- Applicant is requesting $5,000 of WMO cost share funds.

- The project scored a 25 the ranking criteria, which is the minimum a project must achieve to be brought to the WMO Advisory Committee.
- Sundby reviewed the project's scores for plant diversity, maintenance plan, water body protect, volume control, and other scoring criteria.
- Staff recommends approval of the project and the $5000 request.

Pascoe inquired for clarification on the route of water flow, confirming that water flows from the project through fields, into a ditch, and then finally into Carver Creek. Sundby responded that is correct.

Lynch inquired if the parcels were located in the road's right of way. Sundby responded that the project is outside of the right of way.

Pascoe moved to approve the project as presented. Lynch Seconded. Motion passed unanimously.

6) Information items & project updates

Lynch asked for and updated on the goldfish project. Sundby responded that staff have been monitoring and analyzing goldfish populations in the Big Woods and Hazeltine Lake and will have a report from the consulting working on the project in the next few weeks. Lynch commented that would be a good project to hear about.

Next meeting is April 30, 2024.

Meeting adjourned at 7:42 p.m.

Water Management Organization Advisory Committee

April 30, 2024 Meeting

Business Item
Potential projects for 2025 WMO Funding
Water Management Plan Related Goal
1. Effectively and efficiently manage public capital expenditures needed to correct flooding and water quality problems;

Summary:

The budget process for the 2025 CCWMO levy has commenced. As part of identifying project funding, staff solicited requests to cities in February 2024. Three project applications were submitted by cities. Staff will provide an overview of these projects and is seeking committee input for 2025 WMO project funding.

The Watershed Based Implementation Funding (WBIF) process for this cycle is nearing completion, with the CCWMO requesting funding for four projects and one feasibility study. Staff will provide a quick overview of these projects.

Staff will bring back an overall recommendation to the committee for 2025 WMO budget in May.

Discussion Points:

- Overview of the CCWMO levy and budget process
- Overview of the project funding process
- Background on the applications received and WMO projects

Recommended Committee Action:

- Input on 2025 project funding list

Attachments:

- Capital Improvement Projects (CIP) Cost Share Applications: Chaska Seminary Fen C2 Ravine, Watertown SAFL Baffles, Norwood Young America SAFL Baffle.
- Preliminary CIP project scoring
- WBIF requested projects.

CARVER COUNTY

Carver County Water Management Organization

APPLICATION FOR COST SHARE PROJECT FUNDING

File Number (Office Use Only): _____

Instructions

1. *Complete and submit application. Electronic submittals preferred. See page 2 for information on how to submit applications.*

APPLICANT INFORMATION (MAIN CONTACT)

Name: Matthew Clark

Telephone: (952) 227-7522

Email: MClark@chaskamn.gov

Address: One City Hall Plaza

City/Township: Chaska **Zip:** 55318

PROJECT LOCATION

Address: N/A

City/Township: Chaska

PID: 302110430

Waterbody: Seminary Fen

PROJECT INFORMATION

Project Name: Seminary Fen Ravine C-2 Stabilization Project

Description: (please attach addition sheets as necessary, maps, designs, size/area involved, modeling information, expected outcomes, benefits to water resources etc.)

The Seminary Fen Wetland Complex is a high-quality calcareous fen which supports dozens of rare and threatened plants and animals. The unique hydrology, soils, plants, and animals of the complex make the area highly sensitive to water quality and sedimentation stress.
The bluff area north of the Fen is prone to erosion due to sand soils, groundwater discharges, steep slopes, and surface water runoff. These conditions have contributed to ravine erosion, which has resulted in a sediment plume that encroaches into the wetland complex.
A feasibility study was completed in 2022 which investigate the causes of erosion, estimate the sediment contributions from the ravine to the Seminary Fen wetland system. It was estimated that that the 1,200' long ravine currently contributes 233 tons/yr of sediment and 370 lbs/yr of phosphorus based on existing soil loss and sediment accumulation in the wetland, which has resulted in a sediment plume into the wetland approximately 2 acres in size and 2-5' deep.
Additionally, rate control and volume reductions from overland runoff will be improved with the construction of a filtration/detention basin above the ravine system. Existing peak flow rates of 19.4CFS will be reduced by over 40%, to 11.5 CFS following completion of the project.
- See attached Memo for Water Quality Information

Will the project be accessible to the public?: (●) yes ( ) no

Can it be a demonstration site due to its being the first such project in the County?: ( ) yes (●) no

Is the project included in the Carver County Water Plan or a local Water Plan?: [✓] WMO Plan [✓] Local Plan

How will the project improve water quality? Please provide information on percent reductions from existing conditions for the following parameters (if known).

Phosphorus Loading 0.00% Rate Control 40.00%

Sedimentation Loading 100.00% Volume Control 0.00%

Other (list parameter) 0.00%

Please list any partners involved:

Lower Minnesota Watershed District, BWSR CWF

PROJECT COST ESTIMATES

Total Amount Requested: $80,000.00

Match Amount: $20,000.00

Total Project Cost: $1,008,000.00

AUTHORIZATION & SIGNATURES

I hereby authorize the County of Carver and the County's authorized representative to enter upon the property subject to this application for the purpose of evaluating the application and upon approval of this application to determine compliance with the application and any associated agreements.

As the person legally responsible for this project I hereby certify that I understand that this project must be conducted in accordance with the approved plans and any attached or subsequent agreements and the Water Management Rules. I further certify that all of information supplied with this application is true and correct to the best of my knowledge.

Signature of Legally Responsible Party:

Moe Clark - Chaska Engineer

Date: 3/29/24

Return application to:

Tim Sundby
Carver Co Planning & Water Mgmt
600 East Fourth Street
Chaska, MN 55318

Email: tsundby@co.carver.mn.us
Phone: 952.361.1816

OFFICE USE ONLY

Date Received:

Project Number:

Water Stewardship Ranking:

WMOAC Recommendation:

County Board Approval:

Amount Funded:

City of Chaska
Memorandum

To: Tim Sundby, Carver County Water Resources Supervisor
From: Matt Clark, Chaska City Engineer
Date: March 18, 2024
Subject: Seminary Fen Ravine C-2 Stabilization Project – Carver County WMO CIP Grant Funding Request

The Seminary Fen Wetland Complex is a high-quality calcareous fen which supports dozens of rare and threatened plants and animals. The unique hydrology, soils, plants, and animals of the complex make the area highly sensitive to water quality and sedimentation stress.

The bluff area north of the Fen is prone to erosion due to sand soils, groundwater discharges, steep slopes, and surface water runoff. These conditions have contributed to ravine erosion, which has resulted in a sediment plume that encroaches into the wetland complex.

A feasibility study was completed in 2022 which investigate the causes of erosion, estimate the sediment contributions from the ravine to the Seminary Fen wetland system. It was estimated that that the 1,200' long ravine currently contributes 233 tons/yr of sediment and 370 lbs/yr of phosphorus based on existing soil loss and sediment accumulation in the wetland, which has resulted in a sediment plume into the wetland approximately 2 acres in size and 2-5' deep.

Additionally, rate control and volume reductions from overland runoff will be improved with the construction of a filtration/detention basin above the ravine system. Existing peak flow rates of 19.4CFS will be reduced by over 40%, to 11.5 CFS following completion of the project.

The City is requesting $80,000 in CCWMO CIP grant funds to help reduce the project costs of the ravine restoration project. The total project costs are estimated at approximately $1,008,000. The City was successful in receiving $615,000 in grant funds from the Board of Water and Soil Resource (BWSR) Clean Water Funds (CWF) to support the project. If awarded, the CCWMO grant funds would further assist with bridging the remaining funding gap.

Brent Alcott
Water Resources Coordinator
(952) 227-7525
balcott@chaskamn.com

APPLICATION FOR COST SHARE PROJECT FUNDING

File Number (Office Use Only): _____

Instructions

1. Complete and submit application. Electronic submittals preferred. See page 2 for information on how to submit applications.

APPLICANT INFORMATION (MAIN CONTACT)

Name:	Joshua Eckstein
Telephone:	(952) 488-8838
Email:	Josh.Eckstein@bolton-menk.com
Address:	2638 Shadow Lane, Suite 200
City/Township:	Chaska, MN **Zip:** 55318

PROJECT LOCATION

Address:	402 5th Ave NE
City/Township:	Norwood Young America, MN
PID:	580750180
Waterbody:	Young America Lake

PROJECT INFORMATION

Project Name: 2025 Sump Baffle Retrofit Cost Share

Description: (please attach addition sheets as necessary, maps, designs, size/area involved, modeling information, expected outcomes, benefits to water resources etc.)

Sump Baffle improvements proposed in line with Norwood Young America's local surface water management plan.

Will the project be accessible to the public?: (●) yes ( ) no

Can it be a demonstration site due to its being the first such project in the County?: ( ) yes (●) no

Is the project included in the Carver County Water Plan or a local Water Plan?: [ ] WMO Plan [✔] Local Plan

How will the project improve water quality? Please provide information on percent reductions from existing conditions for the following parameters (if known).

Phosphorus Loading 0.00% Rate Control 0.00%

Sedimentation Loading 32.00% Volume Control 0.00%

Other (list parameter) 0.00%

Please list any partners involved:

PROJECT COST ESTIMATES

Total Amount Requested:	$24,031.25
Match Amount:	$24,031.25
Total Project Cost:	$48,062.50

AUTHORIZATION & SIGNATURES

I hereby authorize the County of Carver and the County's authorized representative to enter upon the property subject to this application for the purpose of evaluating the application and upon approval of this application to determine compliance with the application and any associated agreements.

As the person legally responsible for this project I hereby certify that I understand that this project must be conducted in accordance with the approved plans and any attached or subsequent agreements and the Water Management Rules. I further certify that all of information supplied with this application is true and correct to the best of my knowledge.

Signature of Legally Responsible Party:

Joshua Echtler

Date: 3/27/2024

Return application to:

Tim Sundby
Carver Co Planning & Water Mgmt
600 East Fourth Street
Chaska, MN 55318

Email: tsundby@co.carver.mn.us
Phone: 952.361.1816

OFFICE USE ONLY

Date Received:	
Project Number:	
Water Stewardship Ranking:	
WMOAC Recommendation:	
County Board Approval:	
Amount Funded:	

CCWMO 2025 LGU COST SHARE FUNDING

SUMP & BAFFLE RETROFIT

CITY OF NORWOOD YOUNG AMERICA

DATE: 3/27/2024

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	COST	COST
1	MOBILIZATION	LUMP SUM	1	$ 8,000.00	$ 8,000.00
2	TRAFFIC CONTROL	LUMP SUM	1	$ 1,000.00	$ 1,000.00
3	STREET SWEEPING	LUMP SUM	1	$ 5,000.00	$ 5,000.00
4	REMOVE DRAINAGE STRUCTURE	EACH	1	$ 1,000.00	$ 1,000.00
5	SITE RESTORATION	EACH	1	$ 2,100.00	$ 2,100.00
6	CASTING ASSEMBLY (STORM)	EACH	1	$ 1,000.00	$ 1,000.00
7	CHIMNEY SEAL	EACH	1	$ 350.00	$ 350.00
8	CONSTRUCT DRAINAGE STRUCTURE	LIN FT	8	$ 1,000.00	$ 8,000.00
9	SAFL BAFFLE	EACH	1	$ 9,000.00	$ 9,000.00
10	CONNECT TO EXISTING STORM SEWER PIPE	EACH	3	$ 1,000.00	$ 3,000.00
	TOTAL ESTIMATED CONSTRUCTION COST:				$ 38,450.00
	PROJECT DEVELOPMENT COSTS (25%):				$ 9,612.50
	TOTAL ESTIMATED PROJECT COST:				$ 48,062.50

CCWMO 2025 LGU COST SHARE FUNDING

NORWOOD YOUNG AMERICA

PROJECT LOCATION MAP

MARCH 2024

BOLTON & MENK

H:\NOYA_ Surface Water Management\Grants\CCWMO 2025 Sump Baffle Cost Share Funding\CCWMO 2025 Sump Baffle Cost Share Funding.dwg 3/27/2024 12:34:55 PM

CARVER COUNTY

Carver County Water Management Organization

APPLICATION FOR COST SHARE PROJECT FUNDING

File Number (Office Use Only): _____

Instructions

1. *Complete and submit application. Electronic submittals preferred. See page 2 for information on how to submit applications.*

APPLICANT INFORMATION (MAIN CONTACT)

Name: Philip Schrupp

Telephone: (952) 448-8838

Email: philip.schrupp@bolton-menk.com

Address: 2638 Shadow Lane, Suite 200

City/Township: Chaska, MN **Zip:** 55318

PROJECT LOCATION

Address: 115 Madison St SW

City/Township: Watertown, MN 55388

PID: 853970023 & 853200010

Waterbody: South Fork Crow River

PROJECT INFORMATION

Project Name: 2025 Watertown Mill & Overlay

Description: (please attach addition sheets as necessary, maps, designs, size/area involved, modeling information, expected outcomes, benefits to water resources etc.)

Sump manholes with baffles shall be constructed before the outfall of the storm sewer systems serving Madison St SW, Lewis Ave S, and adjacent parking lots. This will reduce sedimentation loading from the associated Mill and Overlay project.

Will the project be accessible to the public?: (●) yes ( ) no

Can it be a demonstration site due to its being the first such project in the County?: ( ) yes (●) no

Is the project included in the Carver County Water Plan or a local Water Plan?: [ ] WMO Plan [✓] Local Plan

How will the project improve water quality? Please provide information on percent reductions from existing conditions for the following parameters (if known).

Phosphorus Loading 0.00% Rate Control 0.00%

Sedimentation Loading 32.00% Volume Control 0.00%

Other (list parameter) 0.00%

Please list any partners involved:

PROJECT COST ESTIMATES

Total Amount Requested: $55,603.12

Match Amount: $55,603.13

Total Project Cost: $111,206.25

AUTHORIZATION & SIGNATURES

I hereby authorize the County of Carver and the County's authorized representative to enter upon the property subject to this application for the purpose of evaluating the application and upon approval of this application to determine compliance with the application and any associated agreements.

As the person legally responsible for this project I hereby certify that I understand that this project must be conducted in accordance with the approved plans and any attached or subsequent agreements and the Water Management Rules. I further certify that all of information supplied with this application is true and correct to the best of my knowledge.

Signature of Legally Responsible Party:

Date: 3/19/24

Return application to:

Tim Sundby
Carver Co Planning & Water Mgmt
600 East Fourth Street
Chaska, MN 55318

Email: tsundby@co.carver.mn.us
Phone: 952.361.1816

OFFICE USE ONLY

Date Received:

Project Number:

Water Stewardship Ranking:

WMOAC Recommendation:

County Board Approval:

Amount Funded:

CCWMO 2025 LGU COST SHARE FUNDING

SUMP & BAFFLE RETROFIT

CITY OF WATERTOWN

DATE: 3/15/2024

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	COST	COST
1	MOBILIZATION	LUMP SUM	1	$ 8,000.00	$ 8,000.00
2	TRAFFIC CONTROL	LUMP SUM	1	$ 1,000.00	$ 1,000.00
3	STREET SWEEPING	LUMP SUM	1	$ 5,000.00	$ 5,000.00
4	REMOVE CONCRETE CURB & GUTTER	LIN FT	25	$ 16.00	$ 400.00
5	REMOVE BITUMINOUS PAVEMENT	SQ YD	55	$ 18.00	$ 990.00
6	REMOVE DRAINAGE STRUCTURE	EACH	2	$ 1,000.00	$ 2,000.00
7	CONCRETE CURB & GUTTER (HAND FORMED)	LIN FT	25	$ 90.00	$ 2,250.00
8	BITUMINOUS PATCH	SQ YD	55	$ 155.00	$ 8,525.00
9	SITE RESTORATION	EACH	1	$ 2,100.00	$ 2,100.00
10	CASTING ASSEMBLY (STORM)	EACH	2	$ 1,000.00	$ 2,000.00
11	CHIMNEY SEAL	EACH	2	$ 350.00	$ 700.00
12	CONSTRUCT DRAINAGE STRUCTURE	LIN FT	30	$ 1,000.00	$ 30,000.00
13	SAFL BAFFLE	EACH	2	$ 9,000.00	$ 18,000.00
14	CONNECT TO EXISTING STORM SEWER PIPE	EACH	8	$ 1,000.00	$ 8,000.00
	TOTAL ESTIMATED CONSTRUCTION COST:				$ 88,965.00
	PROJECT DEVELOPMENT COSTS (25%):				$ 22,241.25
	TOTAL ESTIMATED PROJECT COST:				$ 111,206.25

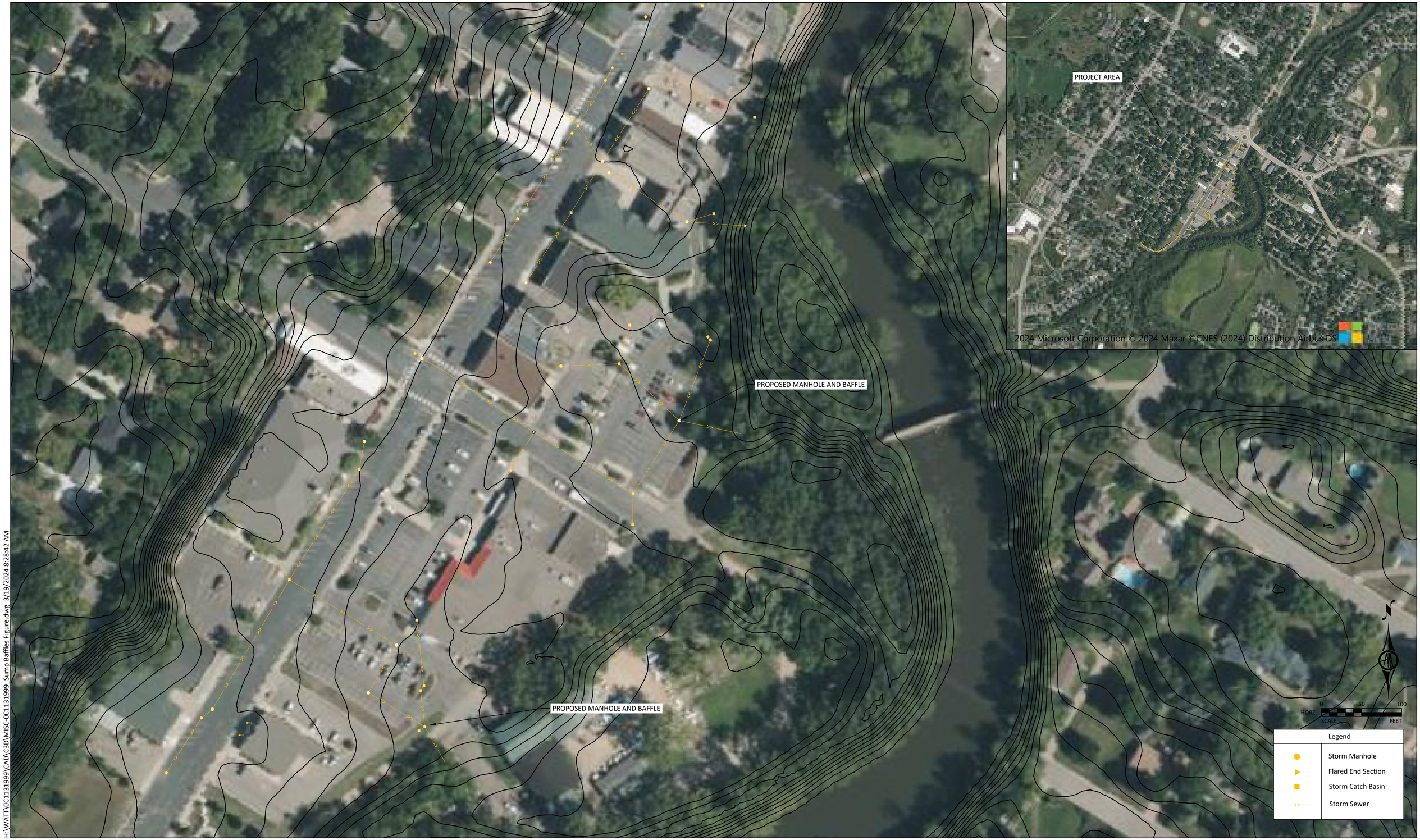
CCWMO 2025 LGU COST SHARE FUNDING

CITY OF WATERTOWN

PROJECT LOCATION MAP

MARCH 2024

BOLTON & MENK



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Water Stewardship / County CIP Cost Share Criteria					2. Chaska Seminary Fen C2 Ravine	3. NYA SAFL Baffle	4. Watertown SAFL Baffles
Criteria	**Max. Points Allowed**	**Actual Points**	**Point Categories**	**Discussion**			
TMDL Watershed Criteria							
Project Site Location	10	10	Within a subwatershed with approved TMDL (10) | Within a subwatershed with an active TMDL Study (5) | Within a subwatershed with a listed water body (3)	Subwatersheds will change based upon the TMDL process through the County, MPCA, and EPA. Check with Carver County Staff to get list of affected watersheds.	0	0	10
Water Quality Impact Criteria (more than one may apply)							
Phosphorus Loading	10	10	1 pt for each 10% reduction	Points based upon % reduction discharge from site and total water volume leaving the site. Every 10% of overall reduction is within these criteria onsite is equal to one point.	2	0	0
Sedimentation Loading	10	10	1 pt for each 10% reduction		10	3	3
Rate Control	10	10	1 pt for each 10% reduction		4	0	0
Volume Control	10	10	1 pt for each 10% reduction		0	0	0
Other	10	10	1 pt for each 10% reduction		0	0	0
Natural Resource Criteria							
Invasive Nuisance Removal	10	10	1 pt for each 10% reduction	Project incorporates exotic/invasive/noxious species removal. Ranking based upon overall % reduction from project area.	0	0	0
Additional Criteria							
County Share of Total Project Cost	10	10	<25% (10) | 25-50% (5) 50% -75% (0) | >75% (-1)	What percentage of the total cost is the County being asked to contribute? Encouraging contribution from applicants should result in better maintenance, satisfaction, ownership, & greater use of public dollars.	10	0	0
Demonstration Site	5	5	New to County	Can it be used as a demonstration site due to its being the first such project in the County? Is the site available to public without prior notification to landowner?	0	0	0
Educational Site	5	5	Visible to County	Available for tours with prior notification. Signage, self guided tours	0	0	0
Mulitple partners support the project	10	10	2 points per involved partner - just WMO (0), applicant (2), others (+2 for each)	Identifying broad based support is beneficial to project short and long term success. Additional contributions should be encouraged to foster support, extend project dollars, and demonstrate success to additional parties. Grants and funding from outside Carver County and landowner.	2	0	0
Total (max 100)		**100**					
County CIP Cost Share Criteria							
Criteria	**Max. Points Allowed**	**Actual Points**	**Point Categories**	**Discussion**			
Plan Status							
Project included in WMO Plan	10	10	Specific (10) | General (5) | No (0)	Is the project included in the WMO Water Plan?	10	5	10
Project included in Local Plan	10	10	Yes (10) | No (0)	Is the project included in the City's Local Water Plan?	10	10	10
Cost Implications							
Total County Cost	10	10	$1,000-$9,999 (10) | $10,000-$24,999 (8) $25,000-$49,999 (6) | $50,000-99,999 (4) $100,000-$$249,000 (2) | >$250,000 (0)	What amount is the County being asked to contribute?	4	8	4
Public Benefit of Resource Value							
Public Use Value	5	5	High (5) | Medium (3) | Low (1)	How accessible will the project be to the public?	1	1	1
Overall Community Value	5	5	High (5) | Medium (3) | Low (1)	What is the overall community value (e.g. education, public relations, visibility)?	1	1	1
Ease of Implementation							
Ease of Implementation	5	5	Easy (5) | Standard (3) | Difficult (1)	How easy will the project be to implement? Are there factors that could complicate implementation of the project (multiple landowners involved, easements required, access issues, etc).	3	5	5
Additional Criteria							
Resource Value - Natural Resource Assessment Ranking	5	5	High (5) | Medium (3) | Low (1) | NA (0)	What is the assessed quality of any MLCCS land cover features?	5	5	5
Total (max 150)		**150**			**62**	**38**	**49**

Grant Watershed	Entity Requesting Funds	Name of Activity/Project/Program	Description of Activity/Project/Program	Plan reference	Water Resource(s)	Timeframe for implementation	Grant funds requested	Local match (min. 10%)	Total project cost	Measurable Outcomes
South Fork (example)	**CCWMO**	Turf to Native Program	Project will covert 10 acres of turf or crop land to native prairie in the South Fork Crow River Watershed District. 3 project sites have been identified that equals 12 acres of potential native prairie restoration. Costs include construction, establishment, and 3 year maintenance of the site.	CCWMO Plan: Table 5-5 (p. 5.21 - ID 9);	South Fork Crow River (AUID 07010205-508) has impaired Aquatic Life, Aquatic Consumption, and Aquatic Recreation uses and is 303d listed for fecal coliform, mercury, turbidity, fish bioassements, benthic macroinvertebrate bioassessments, and nutrients.	2021-2022	$60,000.00	$10,000.00	$70,000.00	Irrigated areas will reduce potable water by 650,000 gallons per year per acre. Infiltration rates increase by 06 inches per hour resulting in a stormwater volume reduction of 254,000 gallons per year per acre, 0.49 pounds of TP per year per acre, and 170 pounds of TSS per year per acre.
East Chaska Creek	**CCWMO**	Big Woods Ravine	A feasibility study was completed last year on a design to stabilize a ravine located on the east side of Big Woods Lake in the City of Chaska. The project would hard armor the head cut into the ravine, reshape the channel bottom with three grade checks and some slope grading	CCWMO Plan: Table 5-5 (p.5.35 - ID 64)	Big Woods Lake (AUID 10-0249-00) is not listed on the 303d impairment list. Current monitroing data supports that the lake will be listed in the future for nutrients	2024-2025	$76,500.00	$8,500.00	$85,000.00	Midwest Wetland Improvements estimated that the project will reduce total phosphorous discharging to Big Woods Lake to be 7.61 pounds per year and a reduction of total sediment of 19.03 tons per year.
Carver Creek	**CCWMO**	Carver Creek Stream Restoration	A feasibility study was completed last year on options to stabilize a large bank failure that occurred in 2012 on a section of Carver Creek adjacent to County Road 43. This project would move Carver Creek channel 50 feet south of its current location, building a floodplain at the base of the failed bank bluff to reduce the stress of flowing water at the basin of the bluff. Additional tile lines will be added to intercept ground water flow from further destabilizing the bank.	CCWMO Plan: Table 5-5 (p.5.28 - ID35)	Carver Creek (AUID 07020012-806) has impaired Aquatic Life and Aquatic Recreation and is listed on the 303d for fecal coliform, nutrients, and turbidity	2025-2026	$148,500.00	$16,500.00	$165,000.00	EOR estimated that over the past 11 years, this site has released 7,573 tons of TSS to Carver Creek and 6,438 pounds of total phosphorous or 585 pounds of phosphorous per year and 688 tons of sediment per year. Although EOR did not estimate future reductions due to the complexity of the site, it is anticipated that the amount would be similar to the rate of loss over the past 11 years.
East Chaska Creek	**CCWMO**	Lyman Bridge Stream Naturalization	In conjunction of a bridge project over a large ravine system in the City of Chaska, a 130-foot section of a stream that currently is piped would be daylighted and a more natural stream section would be constructed to help stablize the ravine around the new bridge.	CCWMO Plan: Table 5-5 (p.5.34 - ID 61)	Big Woods Lake (AUID 10-0249-00) is not listed on the 303d impairment list. Current monitroing data supports that the lake will be listed in the future for nutrients	2024-2026	$180,000.00	$20,000.00	$200,000.00	Based upon Gordon et al (2020), estimated phosphorous reduction for this site is 1.05 punds per year and 2.16 pounds of nitrogen.
South Fork	**CCWMO**	Eagle Lake Loading Feasibility Study	Eagle Lake has had high in-lake TP concentrations that are above the state standard with a large wetland complex on the south that may be contributing a large portion of soluble phosphorous. This study will be two pronged, one will study the potential for a n Alum treatment to control internal phosphorus release and the effects of managing curly leaf on internal TP loading. The second area of study will be identifying the amount of soluble phosphorus draining from the south wetland complex into the lake with potential solutions to limit the contribution to the lake.	CCWMO Plan: Table 5-5 (p.5.32 - ID 45) - curlyleaf	Eagle Lake (AUID 10-0121-00) has impaired Aquatic Consumption and Aquatic Recreation uses and is listed on the 303d for mercury and nutrients.	2024-2026	$65,000.00	$10,000.00	$75,000.00	A completed feasibility study
Lower MN	**Chaska**	Seminary Fen C2 Ravine	The bluff area north of the Fen is prone to erosion due to sand soils, groundwater discharges, steep slopes, and surface water runoff. These conditions have contributed to ravine erosion, which has resulted in a sediment plume that encroaches into the wetland complex. The project will stabilize ravine bottom and side slope along with reduce peak discharge rate reduction and improve water quatliy improvment with upstream filtration/detention basin.	CCWMO Plan: Table 5-5 (p.5.35 - ID 62) (5, 6, 16)	Seminary Fen Wetland Complex	2024-2026	$201,356.00	$600,000.00	$900,000.00	The stabilization project will provide sediment loss reduction to the Seminary Fen wetland complec of 233 tns/yr, nutrient reduction of 370 lbs/yr, and reduce peak stormwater flow by 40%.
East Chaska Creek	**CCWMO**	Goldfish Management	Carver County WMO is wrapping up a three-year study on the potential management of goldfish in Big Woods and Hazeltine Lakes. recommendations outlined in this study will be used as a basis for this project. Current ideas for management would include fish stocking, fish removal, and aeration of the lake	CCWMO Plan: Table 5-5 (p.5.32 - ID 56)	Hazeltine Lake (AUID 10-0014-00) is impaired for Aquatic Recreation uses and is listed on the 303d for nutrients. Big Woods Lake (AUID 10-0249-00) is not listed on the 303d impairment list. Current monitroing data supports that the lake will be listed in the future for nutrients	2024-2026	$50,000.00	$10,000.00	$60,000.00	

Carver County Water Management Organization Advisory Committee

Upcoming Meetings

Date	Meeting Type	Business Items
5/28/2024	Regular	WMO 2025 Levy 2024 Un-allocated funds Lake Bavaria Management Plan update Annual tour ideas Meeting location
6/25/2024	Tour	TBD
7/30/2024	Regular	TBD
8/27/2024	Regular	TBD

Upcoming Events

5/4/2024	Earth Day festival	Partnership with the City of Chaska. WMO will have education activities at the Earth Day Festival on May 4 from 10:00 a.m. to 1:00 p.m.
5/18/2024	Special waste event with well water test kit pick up	Carver County Water Management Organization is hosting well water test kit pick up events at spring special waste collections. • May 18 at Watertown township shed. Well water test kit details
5/30/2024 **6/1/2024** **6/8/2024**	Discover Bugs	Partnership with the Minnesota Landscape Arboretum to host a family program providing education. Discover Waterbugs of Spring Peeper Meadow (Ages 5-Adult) | Minnesota Landscape Arboretum (umn.edu)