



Carver County Water Management Organization Citizen Advisory Committee

1. **Approval of January 31st, 2017 Minutes & February 28th, 2017 agenda**
2. **Business Items**
 - a. 2016 annual report
 - b. Lake vegetation monitoring
 - c. Aquatic invasive species program
 - d. Subsurface sewage treatment system program
3. **Information Items & Project Updates**
 - a. Ice shanty educational event recap
 - b. Waters of Carver County event recap
4. **Adjournment**

Feb. 28th, 2017

Carver County Government
Center

600 East 4th St. Chaska
County Board Room

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

MEETING OF THE
CARVER COUNTY WATER MANAGEMENT ORGANIZATION ADVISORY COMMITTEE
MEETING MINUTES
Tuesday Jan 31st, 2017

COMMITTEE MEMBERS PRESENT

<i>Carroll Aasen</i>	<i>Citizen, East & West Chaska Creek</i>
<i>Mary Strother</i>	<i>Citizen, Bevens Creek</i>
<i>Thomas Welch</i>	<i>Citizen representing Commissioner District 2</i>
<i>Virgil Stender</i>	<i>Citizen representing Commissioner District 5</i>
<i>Chad Robbins</i>	<i>Citizen, Carver Creek</i>
<i>Brent Aretz</i>	<i>City of Norwood Young America</i>
<i>Stan Wendland</i>	<i>SWCD Board Member</i>
<i>Trevor Kruger</i>	<i>Citizen representing Commissioner District 4</i>

COMMITTEE MEMBERS ABSENT

<i>Vacant</i>	<i>Citizen representing Commissioner District 1</i>
<i>Doug Kammerer</i>	<i>Citizen, Crow River/Pioneer Creek</i>
<i>Audrey Kramer</i>	<i>Citizen representing Commissioner District</i>

STAFF PRESENT

<i>Madeline Seveland</i>	<i>Carver County Planning & Water Mgmt.</i>
<i>Paul Moline</i>	<i>Carver County Planning & Water Mgmt.</i>
<i>Charlie Sawdey</i>	<i>Carver County Planning & Water Mgmt.</i>
<i>Andrew Dickhart</i>	<i>Carver County Planning & Water Mgmt.</i>
<i>Mike Wanous</i>	<i>Carver Soil & Water Conservation District</i>

Meeting Minutes

The meeting was called to order at 6:09p.m. by Paul Moline. New staff and committee members were introduced. Moline inquired of the committee if they'd like to make nominations for the positions of Chair and Vice Chair.

Welch nominated Stender for chair. Strother seconded. No other nominations occurred. Motion passed unanimously. Stender took over as chair. Welch nominated Aasen for Vice Chair. Robbins seconded. No other nominations occurred. Motion passed unanimously.

Stender inquired if there were any changes to the agenda. Seeing none, Stender asked for the approval of the November 27th, 2016 minutes and January 31st, agenda. Assen moved to approve minutes and agenda. Robbins seconded. Motion passed unanimously.

1. Business Items

- **Review of Committee Make up and Meetings**

Moline reviewed committee appointments for 2017. There is still one vacancy for Commissioner District 1 and as Brent Aretz is retiring soon, we will need to appoint a new Technical Advisory Committee representative.

Seveland reviewed the meeting dates for 2017. The June meeting will again be our annual tour. There is no meeting in December and we'll likely cancel either July or August meeting.

Committee members brought up potential conflicts with the May meeting as it's close to Memorial Day and the October meeting as it falls on Halloween. Staff will bring these dates up closer to occurrences and for input and potential meeting date changes.

- **Approval of Operating Rules**

Seveland asked the committee to review its operating rules and if there were any changes desired. Robbins moved to approve operating rules as is. Wendland seconded. Motion passed unanimously.

- **Invasive Species Meeting Review**

Paul describe the committee's role in the 2016 Aquatic Invasive Species Program and explained that staff are looking for recommendations from the committee on the 2017 program.

Dickhart recapped the 2016 efforts and proposals for 2017.

Recap of 2016

- Education & outreach
 - Youth involvement with junior inspector program and K12 presentations
 - Promotion items, key chains and boat shams
 - Website and social media
 - Boat launch signs
- Monitoring and rapid response
 - Zebra mussel sample plates, shoreline assessment and snorkel survey and aquatic vegetation samples.
 - Mapping tool is available online for people to view infestations and monitoring
- Rapid Response
 - Assessment and rapid response for new infestations
 - Contain when detected and remove/eradicate when feasible
 - Lake Minnewashta case study in 2016

2017 Program planning

- Watercraft inspectors, hiring for 2017 has begun.
- Funding
 - There will be a decrease in funding available this year by about \$35,000 because MCWD is no longer contributing 100% to roving lakes and there is a slight decrease from the state.
 - Options for addressing funding shortages.
 - Option 1 Roving lakes lose inspectors. Pros – no cuts elsewhere in the program. Cons – Loss of inspection service at three lakes.

- Option 2 Watercraft inspector can patrol the 3 roving lakes. Pros – 1/3 labor cost and inbound and outbound inspections. Cons – roving lakes receive less coverage and might be cuts to other lakes.
- Option 3 Refine Lake Priority plan and encourage more local partnerships. Pros - consistent use of County Prevention Aid funds (3 year plan) and bolster inspection program with more partner funds. Cons- some lakes may receive less coverage without partnership support.

Staff are proposing a hybrid of option 2 and option 3.

Strother asked for examples of partnership funds. Dickhart responded that might look like having a single watercraft inspector patrol the roving lakes and if stakeholders want more dedicated hours they can help cover costs. Pierson Lake partnership did this.

Strother inquired if it was possible to have private companies like sporting good stores involved. Dickhart responded that it is a good question and staff can explore that.

Wendland inquired about the history of partnerships. Dickhart responded that we have two currently: one with Minnehaha Creek Watershed District and one with City of Chanhassen.

Robbins commented that there could be an opportunity to partner with commercial organizations and have them sponsor/fund inspections. Could have signs at landings saying who is sponsoring the inspections for that site.

Many members expressed ideas on having different volunteers do inspections. Dickhart responded that it's a great educational tool. Volunteers could do education and offer inspections but they can't deny launch and the if it's a Department of Natural Resources public access, we have to get a permit to have someone there.

Wendland inquired if the inspections are seen as a service to the boat owners? Sawdey responded that not to boat owners but to the community and CCWMO should probably do a better job of promoting them as such.

Aasen commented that lake shore owners will want a level playing field. They will question why lakes like Minnewashta are funded 100% and others not. Dickhart responded that Minnewashta is county property with a county park so that bumps it up. The three roving lakes are outliers; all other lakes (except Minnewashta) are within the WMO boundaries. Previous MCWD helped fund those lakes.

Aasen moved that that staff move ahead with the hybrid. Welch seconds. Motion passes unanimously.

Next Dickhart summarized for the committee the first aquatic invasive species stakeholder forum. Feedback from the forum included common themes and ideas to improve the program.

Common themes:

- Expand Education
- Better/more involved enforcement
- Better/more partnerships
- Explore tagging program
- Explore regional inspection program

Proposed thoughts to improve

- Education
 - Enhance inspector training/education to combat disparity and make them more confident educators
 - Installation of signs at boat launches
- Monitoring
 - Similar to 2016
 - Set aside funds for rapid response
- AIS removal
 - Inspectors help clean debris at boat launches
 - Plant harvesting
- Tagging
 - Pursue a potential pilot tagging program with MN Department of Natural Resources.
 - Proof of inspection or decontamination OR
 - "home lake" system
 - These are options we are still working with the DNR to see if this could happen.

Aasen commented that the tagging program didn't help. Boaters with tags can't cut the line so it really only saves them and the inspector a couple minutes of time. Sawdey responded that is a shortfall of the program. To really incentivize people, staff may need to reconsider how it works if they explore a new pilot program.

DNR's primary concern is that they are authorizing us to do inspections on behalf of them according to state statute. So if we don't do them that we aren't compiling. A pilot project may allow us to get through that.

Lastly, Dickhart moved on to a discussion on a regional inspection program. A regional inspection program requires boaters to go to a centralized location for inspection, as opposed to having inspectors at every lake. The idea is to move the program to a longer term sustainable program. The proposal was brought to staff by the COLA (coalition of lake associations).

Pros of a regional inspection program include that it could be more cost effective, could have potential for grant funds, might allow more lakes to receive inspections and might lead to partnerships with Minnehaha Creek Watershed District and Three Rivers Park District.

Cons include that there are lots of moving parts (enforcement, ordinances, funding, signage, etc.), there are not outbound inspections, questions on if enough lakes could be included to make it cost effective without going extreme distances, and the boating/fishing community might not be very receptive.

Welch commented that if this were required every time you took your boat to one of the lakes involved, people would really dislike it. Much of boating is a last minute decision, looking at weather.

Aasen commented that with no outbound inspections, you aren't stopping or quarantining anything. The biggest thing for inspections is to quarantine boats sitting on lakes with zebra mussel and other species. Aasen also commented that the enforcement piece would be a big headache, conservation officers are already in short supply and the County Sheriff's won't do it.

Wendland commented that the program sounded complicated and he doesn't think it would save money.

Robbins commented that success would require all moving parts to be mapped out and for the program to fail a few times before it's successful.

Dickhart responded that staff feels that the regional inspection is not something we are going to pursue in 2017. The committee was in agreement that more research was needed and that staff are not ready to recommend this to the County Board without more pieces in place. Dickhart said the next step is to draw out what is needed for this program to be successful and look at whether its feasible.

Information Items

Seveland reminded them of the Waters of Carver County (20th anniversary event) taking place next week, February 8th and encouraged committee members to attend. She also stated that the hiring process for watercraft inspectors has begun and requested committee members help spread the word.

Sawdey informed the committee that staff did not receive any proposal for treating Benton Lake with rotenone for the rough fish removal project. Applicators seemed nervous about applying in the winter through the ice. Staff are considering additional options now as the project is still a priority.

Meeting adjourned at 7:25pm.

CCWMO Advisory Committee

February 28th, 2017 Meeting

Business Item
<i>2017 Annual Report</i>
Water Management Plan Related Goal
This report is a summary of how all MAJOR ISSUE GOALS in the Water Management Plan were met in 2016.

Summary:

The CCWMO annual report is intended to provide an annual look at the activities accomplished as well as challenges encountered by the CCWMO. It contains information on specific WMO activities, projects, programs, planning efforts and financial activity for 2016. This report fulfills the requirements of MN St. 103B 231 & MN Rules Ch. 8410.0150. The 2016 report is currently in DRAFT form and will be distributed to the County Board in April 2017 and subsequently to the Board of Water, Soil Resources (BWSR).

Discussion Points:

- *Feedback on report summary.*

Recommended WENR Committee Action:

- *No formal action required. Feedback and discussion only.*

Water Management Organization Advisory Committee

February 28th, 2017 Meeting

Business Item
<i>Lake Vegetation Monitoring</i>
Water Management Plan Related Goals
WMP Goal: Protect and enhance fish and wildlife habitat and water recreational facilities.

Summary:

In 2016, Carver County Water Management Organization staff began internally doing aquatic vegetation monitoring, previously done by outside consultants. The primary goal is to observe the health of aquatic macrophyte (plant) communities in Carver County Lakes. A secondary goal is to establish a species richness baseline for monitored lakes to help identify new infestations of aquatic invasive species during future monitoring efforts. Other benefits to vegetation monitoring include: specimen collection for educational purposes, establish an internal plant database, provide another layer to help drive lake management, and increased time on the water may uncover other aquatic invasive species (AIS) or anomalies while sampling.

Discussion Points:

- Input regarding aquatic vegetation monitoring
- Other benefits to aquatic vegetation monitoring

Recommended WENR Committee Action:

- None

Attachments:

- None

Water, Environment & Natural Resources Advisory Committee

Feb 28th, 2017 Meeting

Business Item
<i>Aquatic Invasive Species (AIS) Program Update</i>
Water Management Plan Related Goal
1. Effectively and efficiently manage public capital expenditures needed to correct flooding and water quality problems;

Summary:

The Carver County Aquatic Invasive Species (AIS) watercraft inspection program for 2017 is wrapping up the planning stages and preparing to commence in May. Staff held two AIS Stakeholder Forums to gather input and ideas to help shape the program for 2017. This item will provide a brief summary of the comments received at the forums and introduce staff recommendations for the 2017 program.

Discussion Points:

- 2017 AIS Program
- Outline changes from 2016

Recommended WENR Committee Action:

- Recommend proposed 2017 inspection program to the Carver County Board.

Attachments:

Water Management Organization Advisory Committee

February 28th, 2017 Meeting

Business Item	
<i>Subsurface sewage treatment system 2017 program</i>	
Water Management Plan Related Goals	
Goal SW-1	Maintain or improve the physical, chemical, biological, and aesthetic condition of surface water resources in the CCWMO, taking into account the watershed context of each resource.
Goal MON-1	To maintain a comprehensive, accurate assessment of surface and ground water quality trends over the long term and comply with all current and future TMDL's monitoring and assessment protocols. This data will used to compile trend analysis, assess BMP effectiveness, and complete TMDL studies.

Summary:

In 2008, Carver County staff began a Sub-surface Sewage Treatment System (SSTS) Incentive Program to replace direct discharge sewer systems to reduce contributing bacteria to Bevens and Carver Creeks. Both Bevens and Carver Creek are impaired with bacteria. Since its beginning, the program has helped homeowners in Carver County replace 542 non-compliant SSTS and 224 direct discharges through loans and cost share assistance. Each year new sub-watersheds (within Bevens and Carver Creek watersheds) are targeted for this program. There is \$50,000 in WMO funds approved for the 2017 program. An up to date summary of the program activities will be presented, a short summary of the current data and results, and a discussion regarding the 2017 program and recommended target sub-watersheds. Discussion on funding for the 2018 program will be included.

Discussion Points:

- Input and questions on the program and the recommended targeted sub-watersheds for 2017.

Recommended WENR Committee Action:

- Motion to accept staff recommendation for the next sub-watersheds to target for the SSTS direct discharge incentive program.

Attachments:

- SSTS memo
- SSTS potential subwatershed map



Carver County Water Management Organization
Planning and Water Mgmt Dept
Government Center - Administration Building
600 East 4th Street
Chaska, Minnesota 55318
Phone: (952)361-1820
Fax: (952)361-1828
www.co.carver.mn.us/water

Memo

To: WMO Advisory Committee Members
From: Paul Moline, Carver County Water Management
Date: February 16, 2017
Re: PROPOSED 2017 DIRECT DISCHARGE SSTS COST SHARE PROGRAM

Enclosures: Priority sub-watershed maps

The Total Maximum Daily Load (TMDL) Implementation Plan for the Bevens, Carver, & Silver Creek Watersheds was approved by the state (MPCA) and the County Board in 2007. The implementation plan calls for a reduction of fecal loads sources in the watersheds, mainly agricultural manure source runoff and direct discharge SSTS systems. The County Board has approved a landowner incentive program for SSTS annually since 2008 that has proved successful.

PROGRAM ACCOMPLISHMENTS

SSTS Direct Discharge Program began in 2008 and has accomplished the following to date:

- **Total participants:** 367
- **Number in TMDL area:** 224
- **Number outside TMDL:** 133
- **Loans Taken:** 143
- **Enforcement action commenced & resolved :** none taken thus far
- **Remaining Pending action:** 3 from the last two years.

2017 COST SHARE QUALIFICATIONS

Similar to previous years, incentive recipients must be voluntary with no previous trigger (i.e. current enforcement, compliance inspection as a result of property transfer, complaint, or building permit).

1. Located in 2017 TMDL Priority Sub-Watershed – County will pay 25% of the SSTS replacement cost up to a maximum of \$2,000 per SSTS. In addition the owner may apply for a low interest loan with up to a ten year payback. Loan Amount - \$15,000 maximum. Volunteer by July 31, 2017 and have system installed by July 31, 2018. If voluntary participation not commenced, owner will be required to have a compliance inspection completed by September 30, 2017, and if non-compliant will need to replace system within ten months with NO COST SHARE and only low interest loan with four year payback (as funds are available).
2. Located outside 2017 TMDL Priority Sub-Watershed – County will pay \$2,000 of the SSTS replacement cost. In addition the owner may apply for a low interest loan with a four year payback (as funds are available). Loan Amount - \$15,000 maximum. No deadlines to volunteer first come first serve approach until funds are depleted. Owner would be required to replace SSTS within ten months of completing Cost Share Form.

Payment will be issued to the SSTS contractor upon successful completion of the project (as determined by Environmental Services Staff).

2017 FUNDING

Available Incentive Funds – 2017 CCWMO budget has the following available funds for SSTS direct discharge incentives

- Bevens/Carver Creek Priority Sub-watersheds - \$50,000

Available loan funds estimate: There is approximately \$853,000 available for loans in 2017, enough to fund 50 systems at the maximum loan amount.

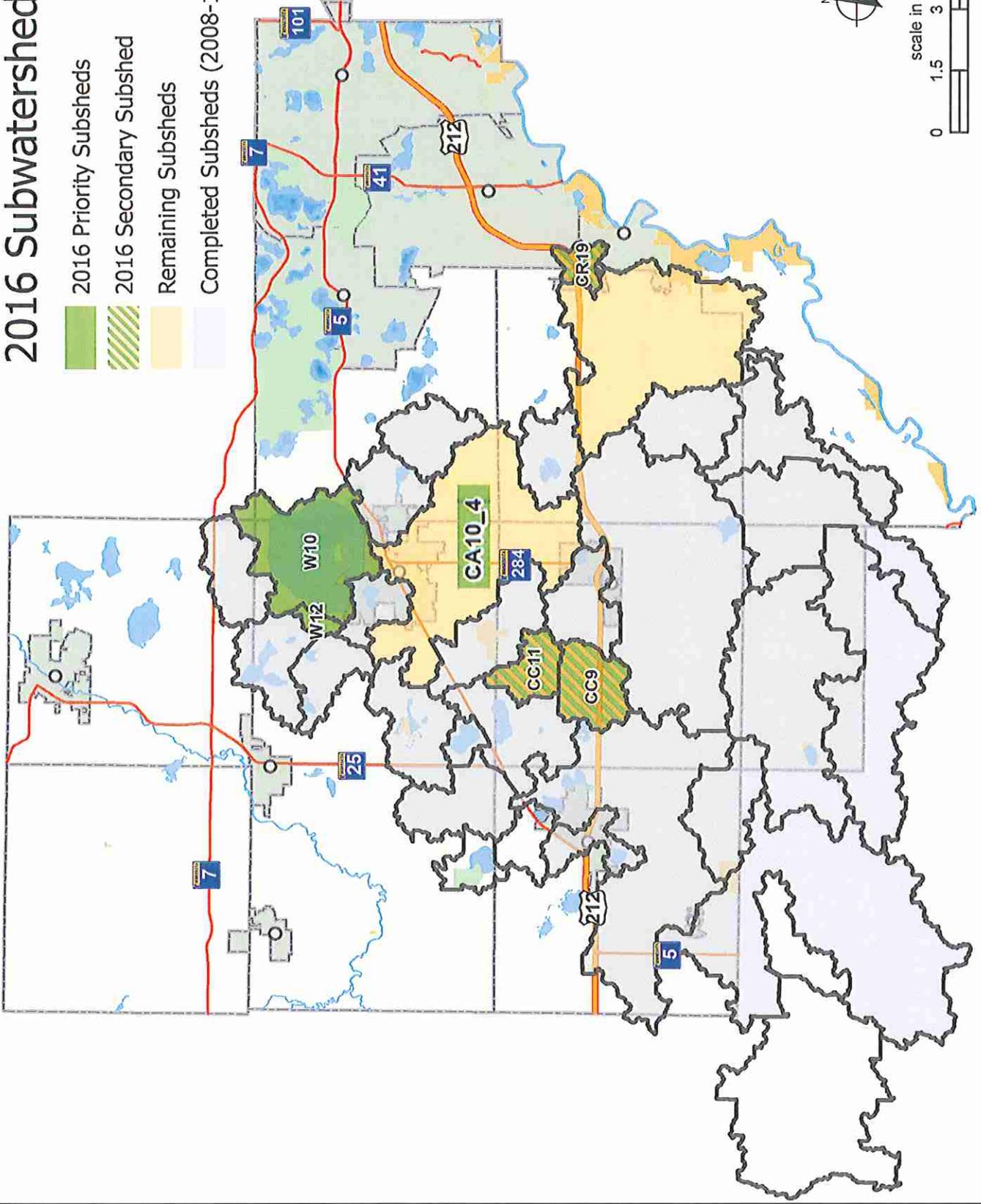
2017 PROPOSAL

The TMDL implementation plan is continuing in 2017 with funding directed by the Board in the 2017 WMO budget. The CCWMO advisory committee will need to recommended priority areas to the board for 2017: Potential areas include (See attached map)

- Carver Creek: CC 9
- Carver Creek: CC 11
- Carver Creek: CA 19
- Carver Creek: CA 10_4 portion

2016 Subwatersheds

- 2016 Priority Subsheds
- 2016 Secondary Subsheds
- Remaining Subsheds
- Completed Subsheds (2008-15)





Carver County Water Management Advisory Committee

February 28th, 2017

Information Items & Project Updates

Education Program

- Second Aquatic Invasive Species Program Stakeholder meeting scheduled for February 2nd at the Chanhassen Recreation Center. Andrew Dickhart will present a summary of this event and plan for 2017 at this meeting.
- Meetings with cities to partner on education needs for 2017 have begun.
- Staff held a 20th anniversary event called Waters of Carver County- the Next 20 years on February 8th. The event's purpose was to celebrate 20 years of protecting and preserving waters and plan for the next 20 years. The event tied in with the County's Water Management Plan update and was well attended. Over 100 people came to view posters, hear presentations and chat with staff. Attendees included city council members, citizens, planners and engineers, city staff and other partners.
- CCWMO hosted its first ever Ice Shanty Live Lake Lab on February 4th with the Chanhassen February Festival. The purpose was to educate citizens about CCWMO, water monitoring, lake health and aquatic life. Visitors drove an underwater robot, viewed aquatic micro-organisms, learned about aquatic invasive species and more. Roughly 100-150 people attended the first ice shanty event.

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WMO Project Updates

Streambank Exclusion

Funding source: Clean Water Legacy (BWSR)

Grant allocation: \$40,000

WMO Match: \$20,000

Background: This program will provide incentive to cattle growers to remove cattle from the riparian corridor.

Update: One fencing project has been installed. WMO and SWCD staff have been in contact with other potential interested landowners and more detailed plans are being drawn up. Focus

will transition to Carver Creek producers once Bevens Creek options are exhausted. Further, stream restoration sites are being assessed for program inclusion.

Carver Clean Water Initiative

Funding source: Clean Water Legacy (BWSR)

Grant allocation: \$150,000

WMO Match: \$70,000

Background: This initiative will provide businesses and non-profit organizations (non-governmental) up to \$25,000 in cost share to install clean water projects on their property.

Update: Pervious pavers at Iron Taphouse and HEI collision in downtown Waconia were successfully installed benefiting the water quality of Lake Waconia. An additional site in Waconia is being discussed with landowners. A school district 112 site near lake grace has been installed.

Fountain Park Stormwater Retrofit

Funding source: Clean Water Partnership (MPCA)

Grant allocation: \$75,000

WMO Match: \$90,000

City of Waconia Match: \$25,000

Background: Much of the city's stormwater infrastructure is dated, and several large developed areas downtown Waconia drain directly to the lake without treatment. Of particular concern, is an 11.19 acre area that drains to the Fountain Park Pond adjacent to Waconia City Hall. During a rain event the pond is dramatically overwhelmed providing little treatment. The proposed project aims to add substantial stormwater treatment capacity to the Fountain Park area by adding a suite of BMPs that will mitigate direct suspended solid and phosphorus loading to Lake Waconia. This project is part of a larger stormwater retrofit project in this area of the city. The WMO received a Clean Water Partnership Grant from MPCA in 2014 to defray \$75,000 of the total project cost.

Update: Project construction is approximately 90% complete. An additional \$18,000 was received from the State which will be used for installation of tree box treatment in spring of 2017.

Mayer Wetland Restoration

Funding source: City of Mayer

WMO CIP contribution: \$50,000

Background: Project aims to restore a wetland area adjacent to Central Pond.

Update: Major work is complete. Vegetation will be planted in spring of 2017.

Benton Lake (Phase 2)

Funding source: City of Cologne

WMO CIP contribution: \$55,000

Background: Phase I was the installation of a fish barrier at the outlet of the lake, which will virtually eliminate the possibility of carp re-establishing within Benton Lake from Carver Creek.
Update: An RFQ was sent to treat Benton Lake with Rotenone February of 2017. The WMO did not receive any quotes from aquatic pesticide applicators to conduct the treatment. They cited lake dynamics and lack of technical experience pertaining to winter rotenone application as primary reasons to not pursue the project. WMO staff is currently working to pursue a fall 2017 application of rotenone.

2016 SSTS:

Funding source: WMO

WMO contribution: \$50,000

Background: This program incentivizes direct discharge SSTS systems in the Bevens/Carver creek TMDL watersheds and for first come-first serve volunteers CCWMO wide.

Update: The Board approved the 2016 program in April for the sub-watersheds Carver Creek W10, W12 priority and CC9 and CC11 as secondary.



Carver County Water Management Organization Advisory Committee

Upcoming Meetings

Date	Meeting Type	Business Items	Special Notes
2/28/2017	Regular	<ul style="list-style-type: none"> - Ice Shanty & 20th anniversary recap - Results of stormwater reuse form - 2016 Annual report - Lake vegetation monitoring results - Aquatic Invasive Species Program update - SSTS Program update - Buffer law update 	
3/28/2017	Regular	<ul style="list-style-type: none"> - WMO 2018 capital project funding - WMP update and issues - Projects update - Lake & stream monitoring results - Reuse Roundtable results 	
4/25/2017	Regular	<ul style="list-style-type: none"> - Water Management Plan update - WMO Funding Recommendations? - June tour discussion ? 	

Others Events

Date	Program	Description	Special Notes
3/10/2017	CCWMO Annual Stormwater Workshop	March 10 th 8:30 a.m. to 11:30 a.m. Carver County Government Center 600 East 4 th St. Chaska, MN 55318 Topics: Waconia's regional reuse system New research in stormwater CCWMO Water's Rules	Event website https://www.co.carver.mn.us/departments/public-services/planning-water-management/water-management/education-outreach/stormwater-workshop