

### **ABOUT US**

The North Cannon River Watershed Management Organization (NCRWMO) formed in 1983 through a joint powers agreement signed by eight townships and three cities in southern Dakota County. Its jurisdiction covers approximately 150 square miles, containing four streams, two lakes, and hundreds of wetlands. This rural region depends on groundwater as its primary source of drinking water and agricultural irrigation. This area is the northern part of the hydrological Cannon River Watershed. The sub-watersheds within the NCRWMO boundaries are Chub Creek, Trout Brook, Pine Creek, Mud Creek, and the Cannon River from Northfield to Lake Byllesby.

Minnesota Statute 103B.201 states that the purposes of a Watershed Management Organization shall be to:

- 1. **Protect**, preserve, and use natural surface and groundwater storage and retention systems.
- Minimize public capital expenditures needed to correct flooding and water quality problems.
- 3. **Identify** and plan for means to effectively protect and improve surface and groundwater quality.
- 4. **Establish** more uniform local policies and official controls for surface and groundwater management.
- 5. **Prevent** erosion of soil into surface water systems.
- 6. **Promote** groundwater recharge.
- 7. **Protect** and enhance fish and wildlife habitat and water recreational facilities.
- 8. **Secure** the other benefits associated with the proper management of surface and groundwater.

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### A. BOARD OF MANAGERS

Member	Appointee		
Castle Rock Township	Primary: Heather Mavencamp		
	Alternate:	Vacant	
Douglas Township	Primary:	Jeff Reed (Chair)	
	Alternate:	Vacant	
Eureka Township	Primary:	Melanie Storlie	
	Alternate:	Brian Storlie	
Greenvale Township	Primary:	Wayne Peterson (Vice Chair)	
	Alternate:	Tom Wirtzfeld	
Hampton Township	Primary:	Dan Peine	
	Alternate:	Vacant	
City of Miesville	Primary:	Vacant	
	Alternate:	Vacant	
City of New Trier	Primary:	Vacant	
	Alternate:	Vacant	
City of Randolph	Primary:	Todd Carlock	
	Alternate:	Vacant	
Randolph Township	Primary:	Tom Krauter	
	Alternate:	Vacant	
Sciota Township	Primary:	Jill Trescott	
	Alternate:	Vacant	
Waterford Township	Primary:	Frank Wergin (Treasurer)	
	Alternate:	Vacant	

### **B. CONTACT INFORMATION**

### **ADMINISTRATION**

The Dakota County Soil and Water Conservation District (SWCD) provides administrative and technical support to the NCRWMO through an annual Joint Powers Agreement. Dakota County SWCD can be contacted at:

victoria.ranua@co.dakota.mn.us 4100 220th St West, Suite 102 Farmington, MN 55024

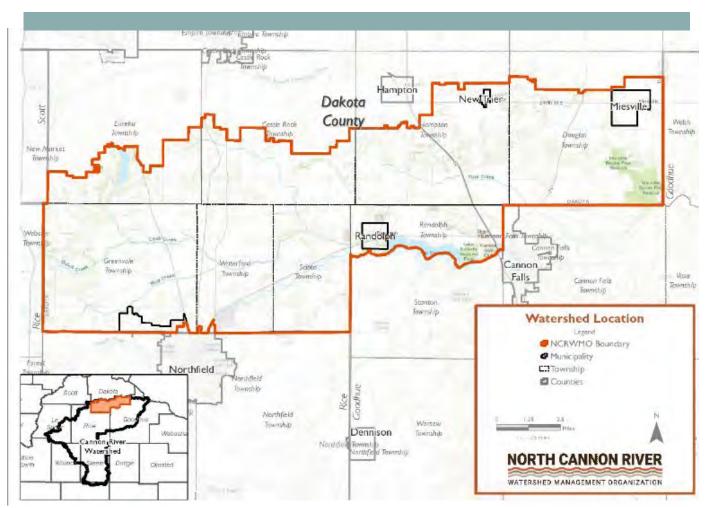
(651) 480-7717

### 2025 MEETING SCHEDULE

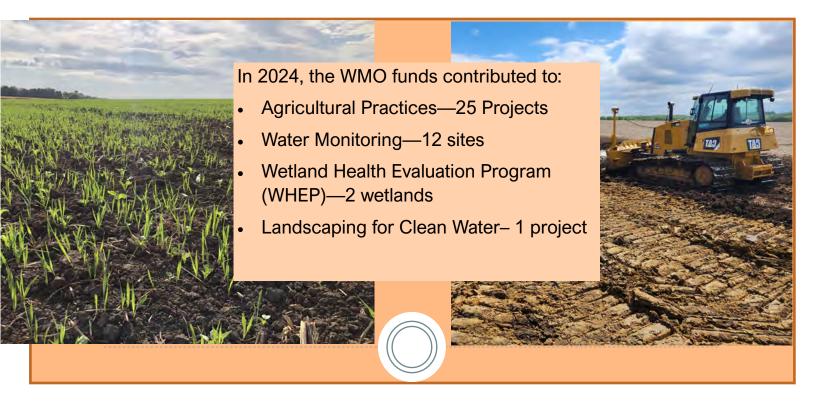
January 15
April 16
July 16
November 19
Locations to be Determined

### **WEBSITE**

www.northcannonriverwmo.org



# C. 2024 ACTIVITIES ASSESSMENT & EXPENDITURES



### **2024 BUDGET AND YEAR-END**

REVENUES	Budget	Year End
Member Contributions	\$41,000	\$40,363.04
Interest- Savings Account	\$300	\$38.28
Total	\$41,300	\$40,401.32
EXPENSES		
Administrative Services     Administrative Services     Organizational Dues     Advocacy, Education, and Outreach     Support Existing E & O     CS- Agricultural Projects     CD- Landscaping for Clean Water     Water Quality Monitoring  Watershed Plan Reserve  Use of Fund Balance	\$17,250 \$500 \$2,375 \$2,700 \$4,000 \$4,450 \$10,525 \$1,500 \$11,500	\$20,810 \$500 \$4,250 \$3,490 \$4,000 \$850 \$5,903.81
Total	\$43,300	\$39,803.81
Net Surplus/Deficit	-\$2,0000	\$597.51
Total Fund Balance		\$51,439.29

### **2024 CONSERVATION PRACTICES**

An interactive map of projects is available on the Dakota County SWCD website:

### **STRUCTURAL**

#### Stein

Basin (Hampton) Pine Creek

### **Hoff Trust**

**Basins** 

(Eureka) Chub Creek

### **PERENNIAL COVER**

#### **Barsness**

Native Prairie 0.9 acres

(Castle Rock) Chub Creek

### **Sharing Our Roots**

Native Prairie

3.4 acres (Greenvale) Mud Creek

#### **Strauss**

Native Prairie
2.5 acres

(Greenvale) Pine Creek

#### Groves

Harvestable Cover 25 acres

(Greenvale) Mud Creek

# IRRIGATION WATER MANAGEMENT

Mulvihill 136 acres (Castle Rock) Chub Creek

Volkert 21 acres (Sciota) Chub Creek



#### **NEW COVER CROPS**

**Levgold** 123 acres (Castle Rock, Waterford) Chub Creek

Mulvihill 153 acres (Castle Rock) Chub Creek

Piene Farms 110 acres (Douglas) Pine Creek

**Stein** 43 acres (Douglas)Pine Creek

#### **DST LLP**

153 acres

(Douglas) Trout Brook

Volkert 99 acres (Sciota) Chub Creek

#### **CONSERVATION TILLAGE**

**Levgold** 123 acres (Castle Rock, Waterford) Chub Creek

Mulvihill 153 acres (Castle Rock) Chub Creek

### **NUTRIENT MANAGEMENT PLAN**

**Levgold** 123 acres (Castle Rock, Waterford) Chub Creek

Mulvihill 153 acres (Castle Rock) Chub Creek

Piene Farms 100 acres (Douglas) Trout Brook

Volkert 21 acres (Sciota) Chub Creek



### D. 2025 ACTIVITIES ASSESSMENT & WORK PLAN

### **2025 MEMBER DUES**

The Joint Powers Agreement for the WMO states, "The annual contribution of each Member shall be based on fifty percent (50%) on the assessed valuation of all real property and fifty percent (50%) on the basis of the total area of each Member within the boundaries of the watershed each year to the total area in the North Cannon River Watershed."

The WMO Board set a budget of \$46,733 for 2025. So the calculation for 2025 is:

(\$23,366.50 x Member's %Tax Capacity) + (\$23,366.50 x Member's % Area) = Member's Dues

Community	Tax Capacity in Watershed (2024)*	% Tax Capacity	% Area of Watershed	Member Dues
Castle Rock Township	\$184,517,722	11.31%	10.31%	\$5,053.57
Douglas Township	\$209,231,852	12.83%	17.78%	\$7,152.91
Eureka Township	\$101,336,692	6.21%	7.43%	\$3,187.81
Greenvale Township	\$283,651,946	17.39%	19.97%	\$8,729.77
Hampton Township	\$208,394,124	12.78%	15.68%	\$6,649.23
Randolph Township	\$240,530,566	14.75%	6.98%	\$5,078.58
Sciota Township	\$146,325,128	8.97%	9.99%	\$4,430.92
Waterford Township	\$160,235,606	9.83%	9.90%	\$4,609.82
City of Miesville	\$29,318,277	1.80%	1.17%	\$693.42
City of New Trier	\$9,777,702	0.60%	0.12%	\$168.38
City of Randolph	\$57,445,111	3.52%	0.67%	\$978.62
Total Dues				\$46,733.00

<sup>\*</sup>Data Source: Dakota County Assessor, Payable Market Values (2024) Report Dated 02/27/2024 using "Taxable Mkt Value" Column



### Dues are matching funds to access other grants

Clean Water Land and Legacy funding through the Board of Water and Soil Resources (BWSR) now offers non-competitive Watershed Based Implementation Funding (WBIF). Watershed Based means that Watershed Plans are referenced in order to prioritize and target funding for measurable results. NCRWMO has participated in three WBIF funding rounds. Partners work together and are funding activities throughout the watershed. Dakota SWCD manages these grants.





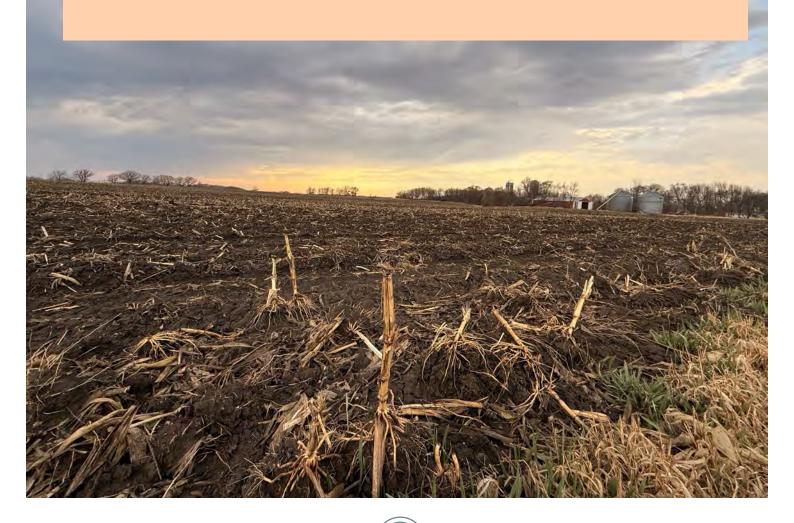
Dakota County supports Dakota SWCD cost-share programs by providing annual funding for projects and practices. Projects and practices are implemented through Dakota SWCD, which helps the County achieve goals in their plans, including the Agricultural Chemical Reduction Effort (ACRE) Plan and Land Conservation Plan.

## D. 2025 ACTIVITIES ASSESSMENT & WORK PLAN

# In 2025, the WMO will help fund:

- Agricultural Practices—# TBD Projects
- Water Monitoring—12 sites
- Wetland Health Evaluation Program (WHEP) 2 wetlands
- Landscaping for Clean Water

   3 projects





Erosion along an old grassed waterway before it was reconstructed.



One week of oat cover crop growth after sweet corn harvest.



Completed grassed waterway with erosion control blanket.

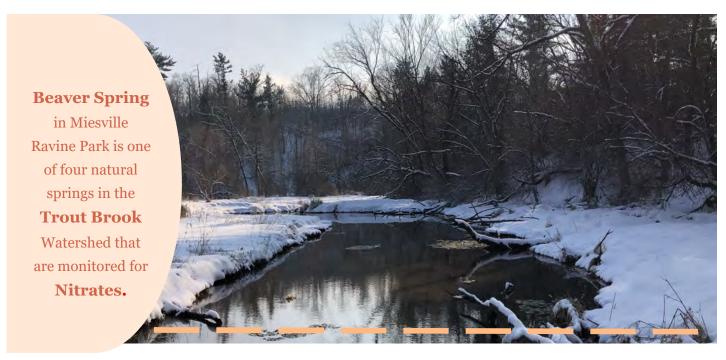
### E. BIENNIUM PROGRESS TOWARDS WATERSHED PLAN

### The NCRWMO Watershed Management Plan in 2023 identified the following activities and goals:

Issue	Measurable Goals	Activities Completed in 2023	Progress
Surface Water	Establish 5,000 acres of cover crops.	New SWCD contracts in 2023-2024 totaled 2,401 Estimated 3,000 additional acres installed through NRCS or independently.	Significant progress made
Surface Water	Increase wetland area within WMO by 60 acres.	Work continues on private wetland bank application, outreach to landowners regarding Local Government Road Wetland Replacement Program, and report completed to prioritize potential restoration and retention sites.	Significant progress made
Surface Water	Establish 10 nutrient management plans.	No plans written, future funding through NRCS Climate-Smart Ag practices will help further this goal.	Need to increase efforts
Surface Water	phosphorus (TP) by 500 lbs/yr and total nitrogen by 8,500 lbs/yr. These reductions will achieve progress towards meeting the reduction goals	Structural practices installed in 2023 reduce TSS by 250 tons/yr and phosphorus by 1,000 lbs/yr over the lifespan of the practice (10 years). Management practices, all cover crops in 2023, reduce nitrogen by 2,900 lbs/yr.	Significant progress made
		SWCD and County staff continue to work with landowners as needed.	Current efforts sufficient
Ground- water	Establish 5,000 acres of cover crops.	New SWCD contracts in 2023-2024 totaled 2,401 Estimated 3,000 additional acres installed through NRCS or independently.	Significant progress made
	Establish 2,000 acres utilizing Irrigation Water Management	, , , , , , , , , , , , , , , , , , , ,	Current efforts sufficient
Ground- water	Enroll 2,000 into Conservation Crop Rotation	No contracts through SWCD, efforts through NRCS unknown.	Need to increase efforts
Ground- water	Establish 1,000 acres of Perennial Crops	Contracted 55 acres of new perennial crops.	Need to increase efforts

### E. PLAN PROGRESS CONTINUED....

Policy and Regulation	establish three model ordinances, then	to members for review and/or incorporation	Current efforts sufficient
Policy and Regulation	•	Use existing NCRWMO meetings to discuss ordinances.	Current efforts sufficient
I FULLCATION	Track effort and location of actions for surface water and groundwater outreach and education at least once every other year.	Efforts are tracked every year.	Current efforts sufficient
Education	9 7. 2	No surveys completed in 2023 or 2024, efforts being made on survey for future years.	Need to increase efforts
Outreach and	At least twice in the life of the plan evaluate survey results, record findings, and update approach if needed.	No action needed in 2023 or 2024	Current efforts sufficient
Habitat		Control of the cont	Current efforts sufficient
Data and Studies	Complete one comprehensive gaps analysis.	No gaps analysis completed in 2023 or 2024.	Need to increase efforts
	Revisit gaps analysis 5 years into planning period to assess what data/studies require updating.	No action needed in 2023 or 2024	Current efforts sufficient
	Biannually, incorporate at least one piece of information into O&E.	Discussion at regular NCRWMO meetings.	Current efforts sufficient



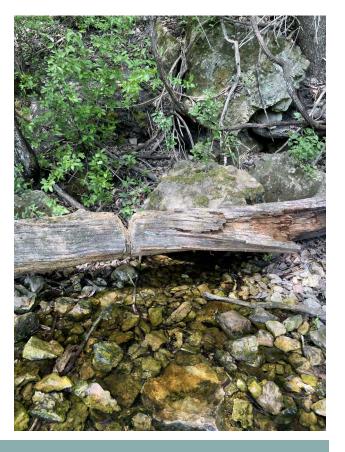
### F. MONITORING DATA TRENDS

The NCRWMO helps fund monitoring data at various locations throughout the watershed:

- Chub Creek (4 sites)
- Pine Creek (1 site)
- Trout Brook (3 sites, plus 4 spring sites)

These waters are monitored for:

- Physical, Continuous: Stage (depth), Streamflow, Continuous Temperature
- Physical Water, Snap-shot: Chlorophyll a, Conductivity, Dissolved O2, pH, Sediment, Temperature
- Nutrients: nitrates and phosphorus
- Bacteria: E. coli



Description	Trend
Description	ITEIIU

### Chub Creek

Chub Creek originates at Chub Lake and has 169 miles of stream channel that includes tributaries. It is impaired for Macroinvertebrates. Fishes, and Fecal Coliform, and its tributaries are impaired for the same, as well as *E.coli*.

Water quality generally meets water quality standards. Low Dissolved O2, E. coli, and high nitrates an issue along some parts of the creek.

#### Pine Creek

Pine Creek is 5.8 miles and drains approximately 21 square miles of flat agricultural land. Most of the creek's length was ditched and straightened to create County Ditch #1 in 1960. The creek is designated as a trout stream downstream of Highway 52. It has been impaired for Nitrates since 2010. and Macroinvertebrates and E. coli was added in 2024.

Meets most standards consistently, except for nitrates and E.coli.

#### **Trout Brook**

Is a groundwater fed stream located in karst topography with a surrounding agricultural land use. This stream has the steepest drop in elevation over its course of any stream in the watershed and flows through Miesville Ravine Park cept for nitrates which show increasing levels (a Reserve. It has a flashy flow during rain events. The lower section of the stream is a DNR designated trout stream. It is impaired for Nitrates, Turbidity, Macroinvertebrates, and E. coli

Water quality consistently meets standards, excombination of surface water and groundwater inputs\*)

### **Trout Brook Springs**

This groundwater fed stream is fed by a series of springs. Four of the feeders springs to the stream have been monitored for nitrate on a semi-regular basis since 1985. Starting in 2018, these springs have been monitored quarterly.

Nitrate levels increasing\*

<sup>\*&</sup>quot;Age" of groundwater is indicative of past conditions. Lag time in ability to see surface management improvements in the water

### WETLAND HEALTH EVALUATION PROGRAM

For the eighth consecutive year the NCRWMO sponsored a Wetland Health Evaluation Program (WHEP) team and two wetlands were monitored. Over the eight years data has been collected at three different sites.

WHEP helps the NCRWMO reach their Watershed Plan goals for Education and Outreach. Each year a team of volunteers learns about wetland health and how to monitor macroinverte-brates and vegetation. The monitoring results are then used to look at the health of a wetland over time. Most importantly, the program familiarizes watershed residents with their local water resources and the benefits wetlands provide.

Below is a summary of results from 2024 based on the Index of Biotic Integrity (IBI). The IBI is a tool for assessing the health of a body of water by analyzing how the biology—including creatures living in the water– are responding to human behavior. The plants established early in the restoration effort may be responsible for the poor trends. A full report of the WHEP program can be viewed on the program website at www.mnwhep.org.

Wetland Code	Description	Vegetation Trend	Invertebrate Trend
NCR-1	A 0.5 acre restoration completed in 1996	Stable	Variable
NRC-2	Not monitored in 2024	_	_
NRC-3	A 36 acre restoration completed in 2019	Not Enough Data	Not Enough Data





## G. COPY OF ANNUAL COMMUNICATION

The WMO posts its Annual Report on it website and this serves as the annual communication as required under 103B.227 and Administrative Rule 8410.0105 Subpart 4.

The WMO also posts is annual Water Monitoring Report to the website.



# H. SOLICITATION FOR PROFESSIONAL SERVICE

In accordance with Minnesota Statute 103B.227 Subd. 5 "a watershed management organization shall at least every two years solicit interest proposals for legal, professional, and technical consultant services before retaining services…"

In 2024, the NCRWMO was in the middle of a two year solicitation period and did not advertise a request for proposal. At this time, the WMO only retains legal counsel.



### I. LOCAL WATER PLAN ADOPTION AND LOCAL IMPLEMENTATION

The WMO did not adopt any revisions in 2024 to its 2023 Watershed Plan. Shown is local water plan adoption over the past decade

Entity	Adopted	Entity	Adopted
Castle Rock Township	2018 2040 Comprehensive Plan, Local Management Plan (adopted 2013 plan, not the 2030 plan)	Sciota Township	
Douglas Township	2018 2040 Comprehensive Plan, Local Management Plan (adopted 2013 plan, not the 2030 plan)	Waterford Town- ship	2018 2040 Comprehensive Plan, Local Management Plan (adopted 2013 plan, not the 2030 plan)
Eureka Township		City of Miesville	2018 2040 Comprehensive Plan, Local Management Plan (adopted 2013 plan, not the 2030 plan)
Greenvale Township	2018 Dakota County Rural Collaborative 2040 Comprehensive Plan, Local Management Plan (adopted 2013 plan, not the 2030 plan)	City of New Trier	2018 2040 Comprehensive Plan, Local Management Plan (adopted 2013 plan, not the 2030 plan)
Hampton Township	2018 2040 Comprehensive Plan, Local Management Plan (adopted 2013 plan, not the 2030 plan)	City of Randolph	2018 2040 Comprehensive Plan, Local Management Plan (adopted 2013 plan, not the 2030 plan)
Randolph Township	2018 2040 Comprehensive Plan, Local Management Plan (adopted 2013 plan, not the 2030 plan)		







### J. STATUS OF LOCALLY ADOPTED ORDINANCES OR RULES

The WMO does not have any locally adopted ordinances or rules, however it has aided in the created two model ordinances:

- Erosion Control and Stormwater Management Ordinance (2005)
- Mining Ordinance (2023)

# K. SUMMARY OF PERMITS OR VARIANCES

Summary of permits and variances issued or denied and violations under rule or ordinance requirements of the local organization or local water plan.

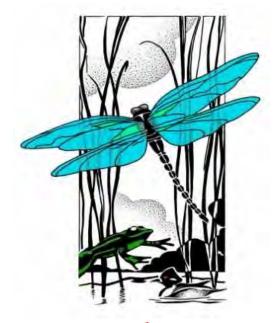
None for 2024.



# **GET INVOLVED!**









Wetland Health Evaluation Program

