



ADMINISTRATIVE OFFICE: 3235 Fernbrook Lane N • Plymouth, MN 55447
763.553.1144 • Fax: 763.553.9326

August 11, 2021

Representatives
Pioneer-Sarah Creek Watershed
Management Commission
Hennepin County, Minnesota

*The meeting packet for this meeting
may be found on the Commission's website:
[http://www.pioneersarahcreek.org/minutes--
meeting-packets.html](http://www.pioneersarahcreek.org/minutes--meeting-packets.html)*

Dear Representatives:

A regular meeting of the Pioneer-Sarah Creek Watershed Management Commission will be held Thursday, August 19, 2021, at 6:00 p.m. This will be a **virtual** meeting.

Until further notice, all meetings will be held online to reduce the spread of COVID-19. **To join a meeting, click** <https://us02web.zoom.us/j/845974640?pwd=YTFON1hMaXdRRXdzL1lyREw1ak5rQT09>, which takes you directly to the meeting.

OR, go to www.zoom.us and click **Join A Meeting**. Meeting ID is **845 974 640**. The passcode for this meeting is **water**.

If your computer is not equipped with audio capability, dial into one of the numbers below with **passcode 978624**.

+1 929 205 6099 US (New York)
+1 669 900 6833 US (San Jose)
+1 253 215 8782 US

+1 312 626 6799 US (Chicago)
+1 346 248 7799 US (Houston)
+1 301 715 8592 US

Meetings remain open to the public via the instructions above.

In order to ensure a quorum for the regular meeting, please telephone 763.553.1144 or email me at amy@jass.biz to indicate if you or your Alternate will be attending. It is your responsibility to ascertain that your community will be represented at the meeting

Regards,

Amy A. Juntunen, Administrator
AAJ:tim

cc: Alternates
Paul Stewart, Kris Guentzel, HCEE
Brian Vlach, TRPD
Joel Jamnik, Attorney
Diane Spector, Wenck Assocs.

Andrew Vistad, Kaci Fisher, Hakanson-Anderson
City Clerks
Met Council
official newspapers
MPCA
BWSR
DNR

Z:\Pioneer-SarahCreek\Meetings\Meetings 2021\7 notice.doc

REGULAR MEETING AGENDA

August 19, 2021 • 6:00 p.m.

The meeting packet can be found on the Commission's website:

<http://pioneersarahcreek.org/pages/Meetings/>

1. Call to Order.
2. Approve Agenda.*
3. Consent Agenda.
 - a. June meeting minutes.*
 - b. July Claims/Treasurer's Report.*
 - c. August Claims/Treasurer's Report.*
4. Open forum.
5. Action Items.
 - a. 2021-003 CSAH 50 Culvert Replacement & Slope Stabilization, Greenfield/Independence.*
 - b. 2021-004 Schefers Hills, Independence.*
 - c. Water Appropriation Permit Request.*
 - d. In-person vs. online meetings.*
6. Old Business.
7. New Business.
8. Watershed Management Plan.
9. Education.
10. Grant Updates.
11. Communications.
 - a. Comments on 2022 budget.*
 - b. Clean up the Crow.*
12. Staff Reports.
 - a. Engineer's Report.*
 - b. HCEE Report.*
13. Commissioner Reports.
14. Other Business.
15. Adjournment. (Next scheduled meeting: September 16, 2021).

BUDGET WORK SESSION AND REGULAR MEETING

Minutes
June 17, 2021

1. CALL TO ORDER. A regular meeting of the Pioneer-Sarah Creek Watershed Management Commission was called to order via Zoom at 6:05 p.m., Thursday, June 17, 2021, by Vice Chair Caitlin Cahill.

Present: Kyal Klawitter, Greenfield; Caitlin Cahill, Maple Plain; Pat Wulff, Medina; John Tschumperlin, Minnetrista; Andrew Vistad, Hakanson-Anderson; Kris Guentzel and Paul Stewart, Hennepin County Environment and Energy (HCEE); Brian Vlach, Three Rivers Park District (TRPD); and Amy Juntunen, JASS.

Also Present: Scott Johnson, Medina.

2. AGENDA. Motion by Wulff, second by Tschumperlin to approve the agenda* as presented. *Motion carried unanimously.*

3. CONSENT AGENDA. Motion by Tschumperlin, second by Wulff to approve the Consent Agenda with a change to the May minutes, striking the last sentence under item 13.a.

a. **May Budget Work Session and Regular Meeting Minutes.***

b. **June Treasurer's Report/Monthly Claims *** totaling \$3,105.10

Motion carried unanimously.

4. OPEN FORUM.

5. ACTION ITEMS.

Accept 2020 Annual Audit.* Motion by Cahill, second by Tschumperlin to accept the 2020 Annual Audit. *Motion carried unanimously.* The audit was prepared by Johnson and Company, Ltd. and will be submitted to the State Auditor as prescribed by Statute by June 30, 2021.

6. OLD BUSINESS.

7. NEW BUSINESS.

8. WATERSHED MANAGEMENT PLAN.

9. EDUCATION.

10. GRANT UPDATES.

11. COMMUNICATIONS.

12. REPORTS.

a. **Engineer's Report.*** No new projects have been received. Local landowners have contacted the technical office for information regarding creating and expanding ponds for wildlife habitat. Staff provided guidance and advice. Vistad inquired if the City of Minnetrista would like a presentation regarding the closed basin north of Whaletail Lake. The basin had been rising in elevation over the past

three years and some homeowners expressed concerns, though with the dry weather it is no longer an issue. Staff reviewed the development paperwork at the storage unit and learned that the basin hadn't yet reached the outflow elevation. The outlet should not flood any adjacent roads if the elevation reaches the outlet.

b. HCEE Report.* The 2021 Watershed Services Agreement approved by the Commission last month has been held up due to some wording in the agreement but is working through the signature process now and is expected to come before the Commission for final signatures at the July regular meeting. The Spurzem SWA is ongoing and a presentation will be made at the July meeting. The Lake Rebecca SWA group meets next Wednesday to discuss project proposals. Wenck/Stantec has been selected to complete the Dance Hall Creek SWA and work will begin in June. An introductory letter was sent to landowners to begin the engagement process and resulted in the scheduling of four landowner meetings. County staff are working with several landowners in the watershed on project opportunities.

13. COMMISSIONER REPORTS.

Medina. Lake Independence is seeing heavy growth of EWM and CLPW, making passage to the main lake impossible for some homeowners. The water is very clear and elevation is low. TRPD staff completed a vegetation survey today.

14. OTHER BUSINESS.

The **next regular meeting** is scheduled for July 15, 2021 and will be held online again via Zoom link <https://zoom.us/j/845974640>.

15. ADJOURNMENT. There being no further business, motion by Cahill, second by Tschumperlin to adjourn. *Motion carried unanimously.* The meeting was adjourned at 6:28 p.m.

Respectfully submitted,



Amy Juntunen
Administrator
AAJ:tim

Z:\Pioneer-SarahCreek\Meetings\Meetings 2021\6 Minutes PSC.docx

Pioneer-Sarah Creek Watershed
Cash Disbursements Journal
For the Period From Jul 1, 2021 to Jul 31, 2021

Filter Criteria includes: Report order is by Date. Report is printed in Detail Format.

Date	Check #	Account ID	Line Description	Debit Amount	Credit Amount
7/9/21		51100	Administration	641.36	
		51100	Meeting-related	235.77	
		51100	Bookkeeping / Audit	297.96	
		57000	Education	35.00	
		10100	Judie Anderson's Secretarial Service		1,210.09
7/15/21		57000	2021 Membership	500.00	
		10100	WaterShed Partners		500.00
Total				1,710.09	1,710.09

METRO WATERSHED PARTNERS



MINNESOTA WATER
LET'S KEEP IT CLEAN

INVOICE

651-523-2812
jlarson25@hamline.edu

Attention: Amy Juntunen
Pioneer-Sarah Creek WMC
3235 Fernbrook Lane N.
Plymouth, MN 55447
Date: 6/23/21

Metro Watershed Partners
Hamline University
1536 Hewitt Ave. MS-A1760
Saint Paul, MN 55104

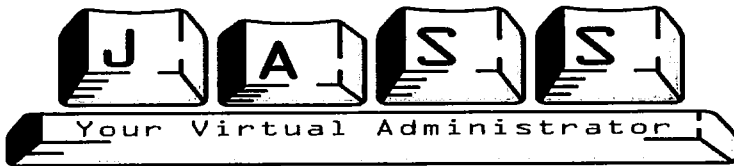
Project Title: Clean Water Minnesota
Terms: 30 Days

Description	Cost
2021 Membership: Clean Water MN and Adopt-a-Drain	\$500.00
TOTAL	\$500.00

Benefits of membership

- You and your colleagues are invited to attend our monthly meetings, to network and share information with other watershed education professionals, and to hear monthly speakers on topics relevant to our work. The Watershed Partners meet on the second Wednesday of the month from 9 – 11 am. Right now all meetings are held on Zoom.
- You and your colleagues are invited to be added to our listserv on Mobilize, where you can receive meeting notifications and partner updates, and send messages to, and receive announcements from, other partners. If you would like to be added to Mobilize, please email Jana Larson (jlarson25@hamline.edu) and request to be added.
- Your organization will be listed as a supporting partner on [cleanwatermn.org/about-us](https://www.cleanwatermn.org/about-us)
- Your organization will be listed as a supporting partner on [adopt-a-drain.org](https://www.adopt-a-drain.org) whenever someone clicks on a drain in your service area, and on email communication to adopters in your area.
- You will have access to an administrative portal on [Adopt-a-Drain.org](https://www.adopt-a-drain.org) that allows you to access data about drains and program participants in your area.
- You will receive an annual report that includes summary data about drains and program participants in your area.
- You are able to access modifiable print resources to promote Adopt-a-Drain to residents in your area here: <https://www.cleanwatermn.org/resources-for-partners/> Please follow the style guide when modifying these resources. (This is password protected.)
- Portable educational exhibits are available for checkout. Find more information at: <https://www.cleanwatermn.org/resources-for-partners/>
- For an additional fee, participants in your area can receive yard signs and a printed "welcome kit" in the mail. Please contact Jana Larson for more information.

Duration of service: January 1 - December 31st, 2021. Unspent funds will rollover to support program activities in 2022.



Pioneer-Sarah Creek Watershed Management Commission
3235 Fernbrook Lane Plymouth, MN 55447

3235 Fernbrook Lane
Plymouth MN 55447

July 9, 2012

General Administration				Total Project Area	
Administrative	0.920	60.00	55.200		
Administrative	2.32	65.00	150.800		
Administrative - virtual		70.00	0.000		
Office Support	5.00	65.00	325.000		
Public storage	1.00	87.36	87.360		
Data Processing/File Mgmt	0.25	65.00	16.250		
General filing		60.00	0.000		
Archiving		60.00	0.000		
Reimbursable Expense	6.75	1.00	6.750	641.360	Administration
Meeting packets, attendance, Minutes and Meeting follow-up					
Administrative	0.33	60.00	19.800		
Administrative	1.74	65.00	113.100		
Admin - virtual	0.50	70.00	35.000		
Reimbursable Expense	67.87	1.00	67.870	235.770	Meeting-related activities
Bookkeeping					
Bookkeeping		60.00	0.000		
Bookkeeping, budget, audit requests	2.75	65.00	178.750		
Treasurer's Reports	0.42	65.00	27.300		
Audit Prep		60.00	0.000		
Audit Prep	1.08	65.00	70.200		Bookkeeping/TRs
Reimbursable Expense	21.71	1.00	21.710	297.960	Audit Prep
Education, Strategic Planning					
Administrative		55.00	0.000		
Administrative		65.00	0.000		
Administrative - Virtual - Watershed Partners, e	0.500	70.00	35.000		
Reimbursable Expense		1.00	0.000	35.000	Education
			1,210.090	1,210.090	

Pioneer-Sarah Creek Watershed
Income Statement
Compared with Budget
For the Six Months Ending June 30, 2021

	Current Month Actual	Year to Date Actual	Year to Date Budget	Year to Date Variance
Revenues				
Member Dues	\$ 0.00	\$ 103,800.00	\$ 103,800.00	0.00
Project Review Fees	0.00	650.00	3,000.00	(2,350.00)
CIP Income	0.00	28,000.00	28,000.00	0.00
Grant-FY19 WS-Based Funding	0.00	5,831.00	0.00	5,831.00
Grant-FY21 WS-Based Funding	0.00	135,585.00	0.00	135,585.00
Interest and Dividend Income	5.42	35.44	2,000.00	(1,964.56)
Total Revenues	5.42	273,901.44	136,800.00	137,101.44
Expenses				
Engineering/Consulting	966.00	8,970.00	17,600.00	8,630.00
Administrative Expense	2,101.40	13,106.23	18,000.00	4,893.77
Adm-Project Reviews	21.45	85.65	500.00	414.35
Adm-CIP Mgmt	0.00	126.45	1,000.00	873.55
Adm - Tech Support	0.00	248.95	375.00	126.05
Legal Expense	0.00	0.00	250.00	250.00
Audit Expense	0.00	0.00	4,500.00	4,500.00
Insurance	0.00	401.00	260.00	(141.00)
Website	16.25	219.48	900.00	680.52
TAC Meetings	0.00	0.00	1,250.00	1,250.00
Education	0.00	223.16	0.00	(223.16)
Grant Writing	0.00	0.00	1,000.00	1,000.00
Mgmt Plan - Admin	0.00	0.00	1,000.00	1,000.00
Capital Improvement Project	0.00	0.00	29,140.00	29,140.00
				0.00
Total Expenses	3,105.10	23,380.92	75,775.00	52,394.08
Net Income	(\$ 3,099.68)	\$ 250,520.52	\$ 61,025.00	189,495.52

Pioneer-Sarah Creek Watershed
Balance Sheet
June 30, 2021

ASSETS

Current Assets		
Cash-4M Fund	\$	647,410.07
Accounts Receivable		<u>48,375.82</u>
Total Assets		<u>\$ 695,785.89</u>

LIABILITIES AND CAPITAL

Total Liabilities		0.00
Capital		
Next Generation Plan Fund	\$	25,000.00
Retained Surplus		281,677.86
CIP Fund		131,580.51
Grant fund - Watershed Based		7,007.00
Net Income		<u>250,520.52</u>
Total Capital		<u>695,785.89</u>
Total Liabilities & Capital		<u>\$ 695,785.89</u>

Pioneer-Sarah Creek Watershed
Cash Disbursements Journal
For the Period From Aug 1, 2021 to Aug 31, 2021

Filter Criteria includes: Report order is by Date. Report is printed in Detail Format.

Date	Check #	Account ID	Line Description	Debit Amount	Credit Amount
8/19/21		50100	Engineering / Technical Consulting	1,577.60	
		10100	Hakanson Anderson Associates, Inc.		1,577.60
8/19/21		51100	Administration	623.36	
		51100	Meeting-related	226.76	
		51100	Bookkeeping	188.43	
		51400	Website	26.18	
		57000	Education	68.60	
		51120	Project Reviews	46.51	
		10100	Judie Anderson's Secretarial Service		1,179.84
8/19/21		51210	2020 Audit and Financial Statements	4,500.00	
		10100	Johnson & Company, Ltd.		4,500.00
8/19/21		51300	Property/Casualty Insurance	2,736.00	
		10100	League of MN Cities Insurance Trust		2,736.00
Total				9,993.44	9,993.44



3601 Thurston Avenue
Suite 101
Anoka, MN 55303

Pioneer Sarah Watershed Management Commission
3235 Fernbroke Lane
Plymouth, MN 55447

Invoice number 46499
Date 08/10/2021

Project **PSC901-2021 GENERAL ENGINEERING
FOR PIONEER SARAH WMC 2021**

Professional Services Provided Through 06/30/2021

GENERAL ENGINEERING

Professional Fees

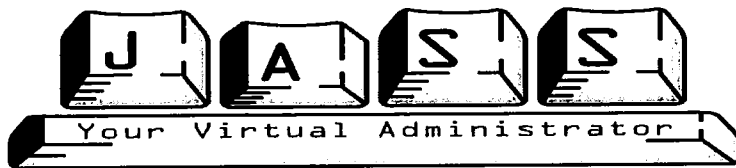
	Date	Hours	Rate	Billed Amount
Andrew Vistad 8145 CR 11 QUESTIONS FOR POSSIBLE PROJECT	06/02/2021	1.50	92.00	138.00
Andrew Vistad 8145 CR 11 ONSITE MEETING POSSIBLE PROJECT	06/04/2021	2.00	92.00	184.00
Andrew Vistad CR 15 CULVERT CROSSING AND BASIN FLOODING	06/07/2021	3.50	100.00	350.00
Andrew Vistad CR 15 CULVERT CROSSING AND BASIN FLOODING DISCUSSION	06/09/2021	1.50	92.00	138.00
Andrew Vistad CR 15 STORMWATER BASIN DISCUSSION	06/10/2021	1.50	92.00	138.00
Andrew Vistad CR 15 BASIN MEETING; DOCUMENT RESEARCH ACOE JOHNSON FARM LETTER AND DISCUSSION	06/11/2021	5.00	92.00	460.00
Andrew Vistad CR 15 BASIN COMMUNICATION	06/14/2021	1.50	100.00	150.00
PROFESSIONAL FEES SUBTOTAL				1,558.00

Reimbursables

	Date	Units	Rate	Billed Amount
MILEAGE	06/04/2021	25.00	0.56	14.00
MILEAGE	06/11/2021	10.00	0.56	5.60
MILEAGE SUBTOTAL				19.60
REIMBURSABLES SUBTOTAL				19.60
GENERAL ENGINEERING SUBTOTAL				1,577.60
AMOUNT DUE THIS INVOICE				1,577.60

Invoice Summary

	Current Billed	Prior Billed	Total Billed
Total	1,577.60	3,174.00	4,751.60



Pioneer-Sarah Creek Watershed Management Commission
3235 Fernbrook Lane Plymouth, MN 55447

3235 Fernbrook Lane
Plymouth MN 55447

August 13, 2021

General Administration					Total Project Area
Administrative	0.750	60.00	45.000		
Administrative	3.50	65.00	227.500		
Administrative - virtual		70.00	0.000		
Office Support	4.00	65.00	260.000		
Public storage	1.00	87.36	87.360		
Data Processing/File Mgmt		65.00	0.000		
General filing		60.00	0.000		
Archiving		60.00	0.000		
Reimbursable Expense	3.50	1.00	3.500	623.360	Administration
Meeting packets, attendance, Minutes and Meeting follow-up					
Administrative	0.25	60.00	15.000		
Administrative	2.72	65.00	176.800		
Admin - virtual		70.00	0.000		
Reimbursable Expense	34.96	1.00	34.960	226.760	Meeting-related activities
Bookkeeping					
Bookkeeping		60.00	0.000		
Bookkeeping, budget, audit requests	1.92	65.00	124.800		
Treasurer's Reports	0.58	65.00	37.700		
Reimbursable Expense	25.93	1.00	25.930	188.430	Bookkeeping/TRs
Website					
Weebly hosting - 1 year	4.73	1.00	4.730		
Pages, links, uploads		65.00	0.000		
Administrative	0.33	65.00	21.450	26.180	Website
Education, Strategic Planning					
Administrative		55.00	0.000		
Administrative		65.00	0.000		
Administrative - Virtual - Watershed Partners, e	0.980	70.00	68.600		
Reimbursable Expense		1.00	0.000	68.600	Education
Project Reviews					
Administrative		60.00	0.000		
Administrative	0.66	65.00	42.900		
File Management/Archiving		50.00	0.000		
Reimbursable Expense	3.61	1.00	3.610	46.510	Project Reviews
			1,179.840	1,179.840	

Johnson & Company, Ltd.
3255 Fernbrook Lane North
Minneapolis, MN 55447
(952) 525-9500

PIONEER-SARAH CREEK WATERSHED MANAGEMENT COMM.
3235 FERNBROOK LANE NORTH
PLYMOUTH, MN 55447

Client # : 4273

Invoice Number : 44026

Invoice Date : Wednesday, June 30, 2021

For Professional Services Rendered :

Preparation of report on audited financial statements for the year ended December 31,
2020:

4,500.00

Total Invoice Amount

\$4,500.00



CONNECTING & INNOVATING
SINCE 1913

Invoice

Page 1 of 3

Member Name and Address

Pioneer-Sarah Creek
Watershed Management
Commission
3235 Fernbrook Lane N.
Plymouth, MN 55447-5325

Invoice Date

08/11/2021

Agent

Arthur J Gallagher Risk Management Services Inc
3600 American Blvd W Ste 500
Bloomington, MN 55431-4502
(952)358-7500

Account Number: 40000782
Account Type Property/Casualty Coverage Premium
Current Balance: \$ 2,736.00
Minimum Due: \$ 2,736.00
Due Date: 10/01/2021

Summary of activity since last Billing Invoice	Date	Activity	Account Balance	Minimum Due
		Previous Invoice Balance	2,732.00	
		Payments Received	-00	
		Total of Transactions and Fees shown on reverse or attached	2,736.00	
See reverse side and attachments for additional information		Current Balance	\$ 2,736.00	\$ 2,736.00

Detach and return this Payment Coupon with your payment

Account Number
40000782

Invoice Date
08/11/2021

Due Date
10/01/2021

Current Balance
\$ 2,736.00

Minimum Due
2,736.00

Amount Enclosed
\$ _____

Member Name Pioneer-Sarah Creek Watershed Management
Commission

BILLING INVOICE - Return stub with payment - make checks payable to:

Mail payment
7 days before
Due Date to
ensure timely
receipt

League of MN Cities Insurance Trust P&C
c/o Berkley Risk Administrators Company
222 South Ninth Street, Suite 2700
P.O. Box 581517
Minneapolis, MN 55458-1517

CSAH 50 Culvert Replacement & Slope Stabilization **Greenfield & Independence, Project #2021-003**

Project Overview: Hennepin County is proposing culvert and slope stabilization improvements along CSAH 50. The CSAH 50 project is located between the South Fork Crow River and Lake Rebecca Park Reserve within the cities of Greenfield and Independence. The proposed culvert improvements involve a cured in place lining of the existing culverts. The cured in place lining fills any defects in the pipe and provides a smooth internal surface. Channel erosion has begun causing some slope stability issues for sections of CSAH 50 that are in close proximity to the South Fork Crow River. Riprap armoring and engineered fill are proposed to rebuild the slopes to prevent erosion and future slope failure. The proposed project is located within the City of Independence. The Commission's management plan requires compliance for Erosion Control (Rule E), Floodplain Alteration (Rule F), & Bridge and Culvert Crossings (Rule H).

Applicant: Eric Vogel, Hennepin County Public Works, 1600 Prairie Drive, Medina, MN 55340. Phone: 612-596-0316. Email: eric.vogel2@hennepin.us

Agent/Engineer: Eric Nelson Alliant Engineering, 733 Marquette Ave Suite 700, Minneapolis, MN 55402. Phone: 612-767-9380. Email: enelson@alliant-inc.com

Exhibits:

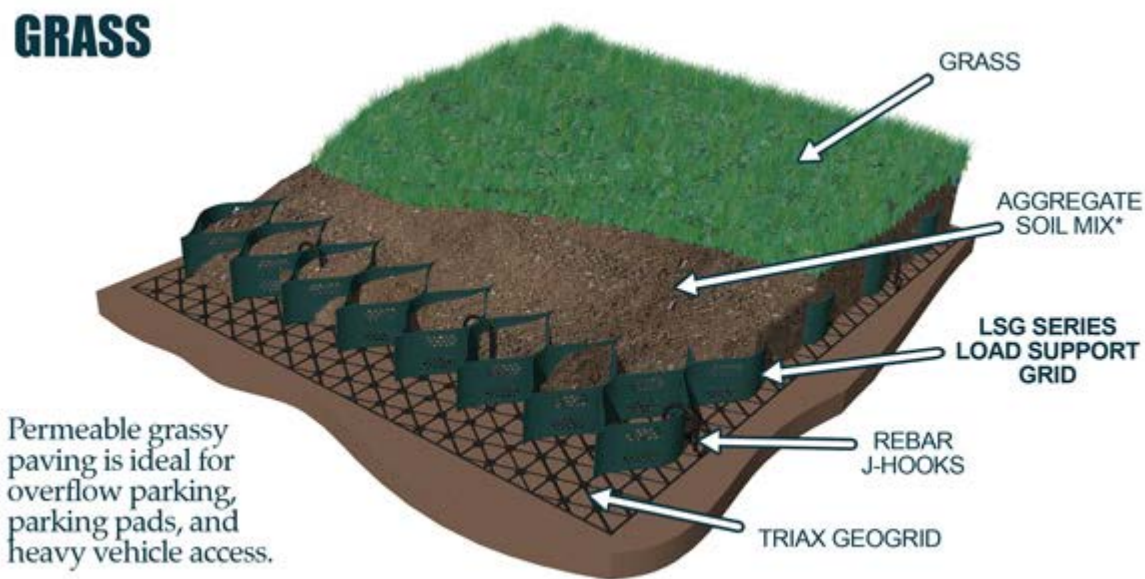
- 1) PSCWMC Request for Plan Review received July 12, 2021
- 2) Project review fees for project, \$1,550.00
- 3) Design Report, dated May 25, 2021
- 4) Pre 100% Drawings, dated May, 2021
- 5) CSAH 50 No Rise Memo, dated April 26, 2021

Findings:

- 1) A complete application was received July 12, 2021. The initial 60-day decision period expires on September 11, 2021.
- 2) The applicant proposes to line existing culverts under CSAH 50.
- 3) The applicant proposes to complete slope stabilization and bank armoring for 2 segments of the South Fork Crow River.
- 4) The City of Independence is the LGU in charge of administering the 1991 Wetland Conservation Act on this site.

Erosion and Sediment Controls (Rule E):

- 5) The county plans to complete riprap armoring along the banks of the South Fork Crow River in 2 locations. The riprap will be placed from the toe of the slope up the bank to an elevation that matches the 5-year critical flow. The riprap was sized to withstand the maximum velocity as indicated in the stream model.
- 6) Slopes above the 5-year flow event are proposed to be rebuilt with a combination of Geo-cell and fabric encapsulated lifts. Geo-cell is a honeycomb like soil reinforcement that is filled with granular material or topsoil that confines material to prevent lateral movement. Geocell also is highly effective at prevent soil erosion from occurring.



*Aggregates and soil are mixed for load support and root growth. Ratio varies. Call for details.

- 7) In addition to the Geocell and geogrid, Sheet piling is to be installed at the toe of the slope to further support the steep slopes that exist in this location. Sheet piling is driven into the ground to prevent sheer slope failure.
- 8) Fabric encapsulated lifts utilize landscaping filter fabric to retain soil in steep slopes. When a seed mixture is applied to the inside of the filter fabric vegetation is able to germinate and poke through the fabric to permanently anchor the soil in place.



Floodplain Alteration (Rule F):

- 9) Due to the bank erosion, it is proposed to place riprap and fill to prevent further erosion and stabilize the river banks. Placement of this material constitutes a fill within the flood plain there for modeling is required to certify that there will be no rise in the 100-year flood event. The South Fork Crow River was modeled by updating an older Flood Insurance Study (FIS) model to work with the current modeling software. The updated model is then compared to a proposed model to determine the new 100-yr flood elevation. In all areas modeled the 100-year flood elevation is the same. There are 2 sections where the model has determined a decrease in flood elevation.

Bridge and Culvert Crossings (Rule G):

- 10) Culverts along CSAH 50 are beginning to show signs of failure. Due to budget constraints the culverts are proposed to be lined instead of replaced. The culvert lining is a cured in place product that provides a smooth internal lining. The smoothness of the lining will increase flow which will mostly offset the small loss in diameter.

Two of the seven culverts replaced will result in an increase in water surface elevation upstream of the culvert. This is due to the loss in diameter from the cured in place lining. The change in elevation is minor and does not result in water overtopping the roadway where it otherwise would not.

July 29, 2021

	Existing Culvert Size and Type	Roadway Overtopping	100-Year Event Results		
			Peak Flow (cfs)	Ex. WSE	Prop WSE
Culvert 1	24" RCP	959.0	21.5	952.10	952.42
Culvert 2 - Sarah Creek	48" RCP	940.5	361	941.21	941.27
Culvert 3	36" CMP	910.5	177	911.21	911.13
Culvert 4	24" CMP	908.0	34.2	908.15	908.09
Culvert 5	24" CMP	913.5	97.1	914.04	914.01
Culvert 6	24" CMP	916.0	211	917.09	917.03
Culvert 7	24" CMP	945.0	28.1	945.10	945.08

Recommendation: Approval

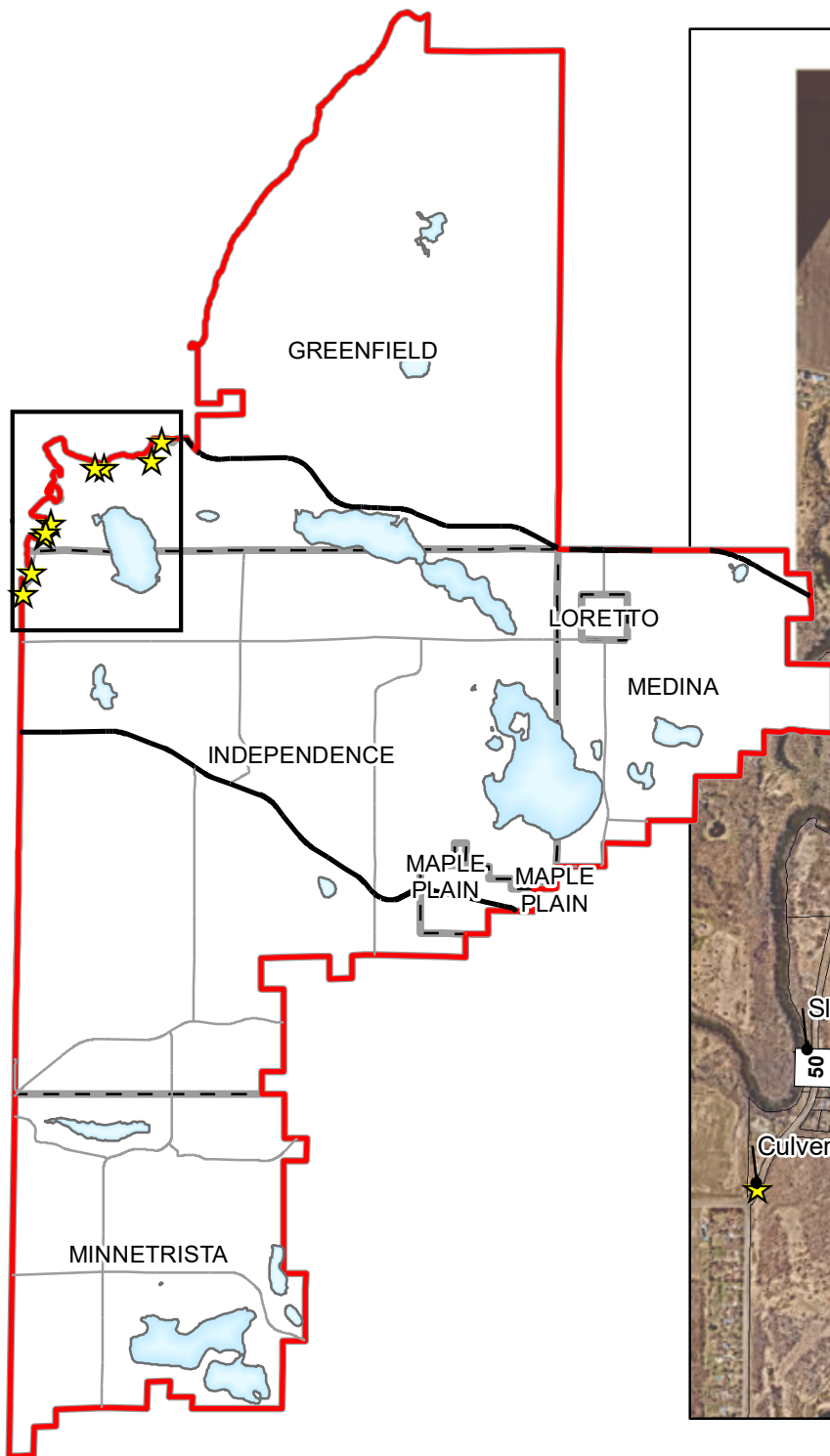
Advisor to the Commission



Andrew Vistad, PE

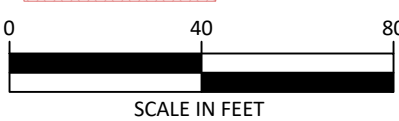
July 29, 2021

Date



LEGEND

- EXISTING 1' CONTOUR
- EXISTING CHANNEL ALIGNMENT
- EDGE OF PAVEMENT
- EXISTING GUARDRAIL
- LOD
- CONSTRUCTION LIMITS
- TEMPORARY ACCESS
- COFFER DAM
- FLOATATION SILT CURTAIN
- SHEETPILE
- EXISTING CHANNEL
- RIPRAP TOE
- STACKED GEOCELLS
- SURFACE FABRIC



NOTE:

- 1. DO NOT DISTURB EXISTING SLOPE STABILIZATION MEASURES. TIE PROPOSED GRADING AND TREATMENTS INTO EXISTING SLOPE STABILIZATION MEASURES.

FLOODPLAIN GRADING TREATMENT
SEE SHEET 27

BLEND RIPRAP INTO EXISTING COARSE
MATERIAL IN THIS LOCATION.

BLEND RIPRAP INTO EXISTING SLOPE
TREATMENT IN THIS LOCATION.

FINE GRADING AND VEGETATION INSTALLATION
AT THE SLOPE CREST ARE FIELD FIT ITEMS AND
SHALL BE CONSTRUCTED TO ACCOMMODATE
OVERLAND FLOW PATHS.

Preliminary
Not for Construction

NO.	BY	DATE	REVISION DESCRIPTION

GS	MH, NJ	JK, MM, DM
DRAWN	DESIGNED	CHECKED
JK	06/2021	20-04-15
APPROVED	DATE	PROJECT

CSAH 50 CULVERT REPAIR AND
SLOPE STABILIZATION
HENNEPIN COUNTY



1539 Grand Avenue, 2nd Floor
Saint Paul, MN 55105
651.243.9700
www.interfluve.com

PROPOSED CONDITIONS - SOUTH SLOPE AREA	SHEET 17 OF 50
---	-------------------

Schefers Hills **Independence, Project #2021-004**

Project Overview: Schefers Hills is a 2 lot 26-acre residential development. The residential property is located within the City of Independence. The Commission's management plan requires compliance for Erosion Control (Rule E) and Buffer Strips (Rule I).

Applicant: Elmer Schefers, 3590 Independence Road, Independence, MN 55359. Phone: 612-834-1946 Email: elschefers@frontiernet.net

Agent/Engineer: Otto & Associates, 9 Division street, Buffalo, MN 55313. Phone: 763-682-4727. Email: paul@ottoassociates.com

Exhibits:

- 1) PSCWMC Request for Plan Review received August 2, 2021
- 2) Project review fees for project, \$550.00
- 3) Grading Plans, dated May 16, 2021

Findings:

- 1) A complete application was received August 4, 2021. The initial 60-day decision period expires on October 4, 2021.
- 2) The applicant proposes to divide a 26-acre parcel into 2 rural type residential lots.
- 3) The City of Independence is the LGU in charge of administering the 1991 Wetland Conservation Act on this site.
 - o No wetlands are proposed to be impacted from this project.

Erosion and Sediment Controls (Rule E):

- 4) Redundant erosion and sediment control BMPs are required for land disturbing activities that occur within or directly adjacent to wetland buffers. Erosion and sediment control devices are required to prevent sediment discharge to adjacent downstream impaired waters.

Land disturbing activities of greater than 1 acre, either individual or part of a larger common plan, require a SWPPP and are required to apply for a NPDES/SDS construction permit.

The proposed development provides redundant erosion control BMPs and less than 1 acre of land will be disturbed.

Buffer Strips (Rule I):

- 5) The provided residential development plan contains wetland buffers that are adjacent to Lake Independence. As a result of this development wetland buffers are defined and will need monumentation installed. Please depict wetland buffer monumentation on the grading and erosion control sheet meeting watershed guidelines.

Recommendation: Approval contingent upon;

- 1) Updating plans to include buffer monumentation.

Advisor to the Commission



Andrew Vistad, PE

August 12, 2021
Date

PIONEER-SARAH CREEK WATERSHED MANAGEMENT COMMISSION

Permit Application for Appropriation of Waters For Non-Essential Uses

MICHAEL MURPHY Applicant's Name	N/A Authorized Agent (if applicable)	763-498-7144 Home Phone No.
N/A Applicant's Name	N/A Address / City / State / Zip Code	N/A Work Phone No.
Appropriation for <input checked="" type="checkbox"/> Lawn and landscape sprinkling <input type="checkbox"/> Car washing <input type="checkbox"/> Golf course and park irrigation <input type="checkbox"/> Other non-essential use (specify) _____		
Source of water <input type="checkbox"/> Stream, ditch, river (name) _____ <input checked="" type="checkbox"/> Wetland, lake (name) <u>Lake Schwadkopf</u> <input type="checkbox"/> Other (specify) _____		
Point of taking/pumping site Address <u>9071 Xenia Street</u> City-State-Zip Code <u>GREENFIELD, MINNESOTA, 55357</u> Length of frontage on water source <u>250' estimate</u> Total square footage of property <u>TOTAL LOT ESTIMATE 152,460 sq. ft.</u> Section <u>---</u> <u>---</u> 1/4 <u>---</u> 1/4 Township <u>---</u> Range <u>---</u>		
I hereby make application pursuant to MN Statutes Chapter 473.877, subd. 4 and all supporting rules for a permit to appropriate water in accordance with all supporting maps, plans, and other information submitted with this application. The information submitted and statements made concerning this application are true and correct to the best of my knowledge. The applicant states that he/she is one of the owners of the property described. The two-year fee of <input checked="" type="checkbox"/> \$30 residential <input type="checkbox"/> \$100 commercial (check one) is enclosed.		
Michael Murphy Applicant or Authorized Signature		10/04/16 Date
FOR OFFICIAL USE ONLY The applicant has permission to appropriate water for non-essential uses described on this application.		
 Authorized Signature	Technical Advisor to the Commission Title	10/7/16 Date
This permit is granted for two years from the date above subject to the following CONDITIONS and the RULES on the reverse side. <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 60%;"> <p>- non essential use only</p> <p>- minimum Lake elevation where all appropriations must cease = 1006.0 or when DNR commissioner requires.</p> </div> <div style="width: 35%; color: red;"> <p>November 29, 2018; Existing permit terms and condition dated 10/7/16 are hereby extended to December 31, 2020. jck 11/29/18</p> </div> </div>		
Fee Received \$ <u>30.00</u>		Date <u>10/7/16</u>

Mike Murphy

From: James C Kujawa <James.Kujawa@hennepin.us>
Sent: Thursday, November 29, 2018 4:18 PM
To: Mike Murphy
Cc: judie@jass.biz
Subject: permit for irrigation water extraction from Schwappauff Lake,-9071 Xenia St., Greenfield
Attachments: November 29, 2018 permit extension to 12-31-20.pdf

Mike,

Per your request, your current permit to extract water from Schwappauff Lake for your residence at 9071 Xenia St. in Greenfield is hereby extended to December 31, 2020. Please note, the terms and conditions of your original permit approved on 10/7/16 are still in effect for the duration of this extension. Attached is the original permit with my extension approval/notes.

Please let me know if you have any questions on this information.

Sincerely
Jim

James C. Kujawa
Hennepin County Public Works
Department of Environment and Energy
701 Fourth Avenue South, Suite 700
Minneapolis, MN 55415
Direct Phone: 612-348-7338
Email: james.kujawa@hennepin.us

Disclaimer: If you are not the intended recipient of this message, please immediately notify the sender of the transmission error and then promptly delete this message from your computer system.

KAREN GAWES
612-348-2027

Guidelines for Suspension of Surface Water Appropriation Permits

Revised: June 2019

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Introduction

Suspension of surface water appropriation permits takes into consideration a number of factors including water allocation priorities defined in Minnesota Statutes and whether the appropriation involves a consumptive use of water. Other factors, such as the season of appropriation, resource impacts, coordination on interstate boundary waters, and special circumstances, as determined by the DNR Ecological and Water Resources Division Director, are also considered when determining what water appropriations should be suspended. These guidelines provide background on statutory requirements and the general criteria and internal process that is considered in determining what surface water appropriation permits will be suspended during periods of specified low flows and water levels.

Suspension Procedures

1. Limits on Surface Water Appropriations

Minnesota Statutes, section 103G.285, subdivision 2 directs the DNR to limit consumptive appropriations of surface water under certain low flow conditions:

If data are available, permits to appropriate water from natural and altered natural watercourses must be limited so that consumptive appropriations are not made from the watercourses during periods of specified low flows. The purpose of the limit is to safeguard water availability for instream uses and for downstream higher priority users located reasonably near the site of appropriation.

Instream uses include fish and wildlife habitat, navigation, water-based recreation, and aesthetics. The DNR Division of Ecological and Water Resources studies river habitats to determine optimal flows for fisheries and aquatic invertebrate habitat. This research supports instream flow protection.

DNR Ecological and Water Resources and the Division of Fish and Wildlife have determined that the annual Q90 exceedance flow value should be used as the specified low flow value for suspending surface water appropriations. This value is in lieu of specific watershed or stream protected flows or specific protective water basin or lake levels.

The annual Q90 exceedance flow value is the stream discharge that statistically was exceeded 90% of the time during the period of record analyzed. The Inventory, Monitoring, and Analysis Section provides annual Q90 flow values based on available flow records. Current annual Q90 values are reviewed through Water Year 2015. The annual Q90 exceedance flow values will be updated every five years using the available period of record for the gage. All subsequent references to Q90 exceedance flow values in this document are to the annual Q90 and will be referred to as “Q90”.

Figure 1 shows locations where the use of surface water is authorized under water appropriation permits, including uses that would not be subject to suspension.

DNR Permitted Surface Water Use Locations

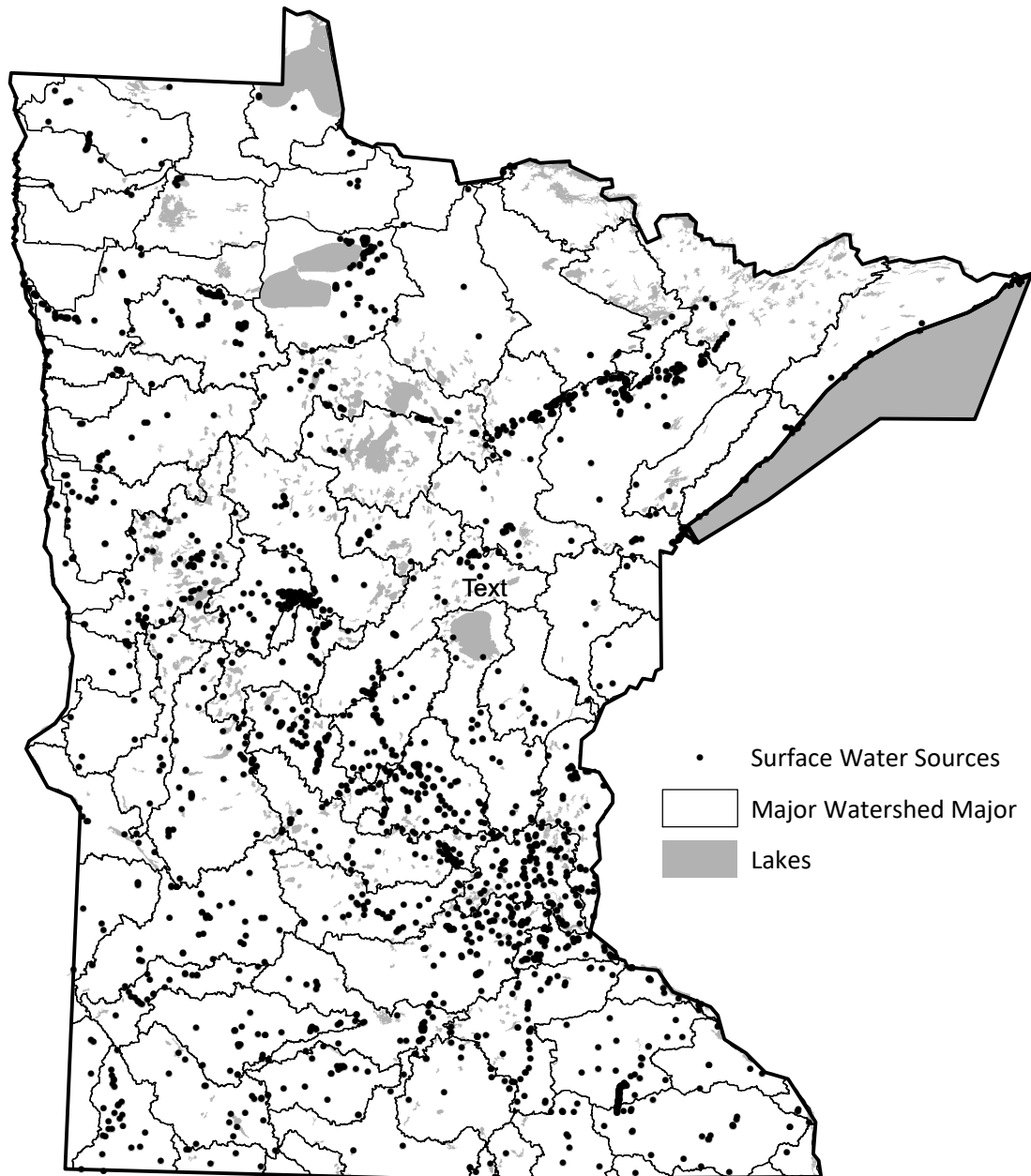


Figure 1

June 2019

2. Suspensions Implemented by Major Watershed

Suspensions of surface water appropriation permits are implemented on a watershed basis using 81 major watershed units throughout the state of Minnesota. Figure 2 shows the locations of the major watershed units and designated stream flow monitoring gage sites.

Permit suspension decisions make use of flow data received from designated monitoring gages and flow measurements made at designated gage sites to verify low flows. Suspension procedures apply to all surface water sources within the entire major watershed.

3. Suspension Considerations

Suspension procedures are activated within a major watershed when the average daily flow at the designated major watershed monitoring gage is at or below Q90 for 120 hours. The designated major watershed monitoring gage is the best available gage for reflecting local flow conditions within that major watershed. Because of significant gaps in Minnesota's stream flow monitoring network, the best available monitoring gage may be located in an adjacent major watershed.

The designated monitoring gages for the Marsh River (No. 59), Thief River (No. 65), and Snake River (No. 68) watersheds all have Q90 values of 0 cubic feet per second (cfs). This also affects the Grand Marais Creek (No. 67) and Tamarack River (No. 69) watersheds because the Snake River watershed gage is used as the reference gage for permit suspensions. Watersheds with a Q90 value of 0 cfs are subject to suspension when there has been no measurable flow for 120 hours. A Q90 value of 0 cfs indicates that the stream can be expected to have no flow 10% or more of the time. Streams with a Q90 of 0 cfs have minimal base flow (ground water discharge into the stream), and issuance of new surface water appropriation permits on these streams is discouraged consistent with Minnesota Rules, part 6115.0670, Subpart 3.A.(2) & (3).

In major watershed No. 20, Mississippi River (Metro), the levels of Long Lake (Lake ID 62006700) in the city of New Brighton and Medicine Lake (Lake ID 27010400) in the city of Plymouth are used in conjunction with the flow at the Elm Creek gage (No. 20) to make suspension decisions. Suspension of surface water appropriation permits will be considered if all of the following three thresholds are reached: Long Lake is at or below elevation 864.39 feet (Ramsey County lake gage 1912 datum), Medicine Lake is at or below elevation 887.26 feet, and flow at the Elm Creek gage is at or below 1.5 cfs. When flow at the Elm Creek gage is below 2.5 cfs, the DNR Ecological and Water Resources area hydrologist is responsible for monitoring the levels of Long Lake and Medicine Lake.

Table 1 lists the 81 major watersheds, their designated monitoring gages, and corresponding Q90 flows.

Designated Stream Flow Monitoring Sites

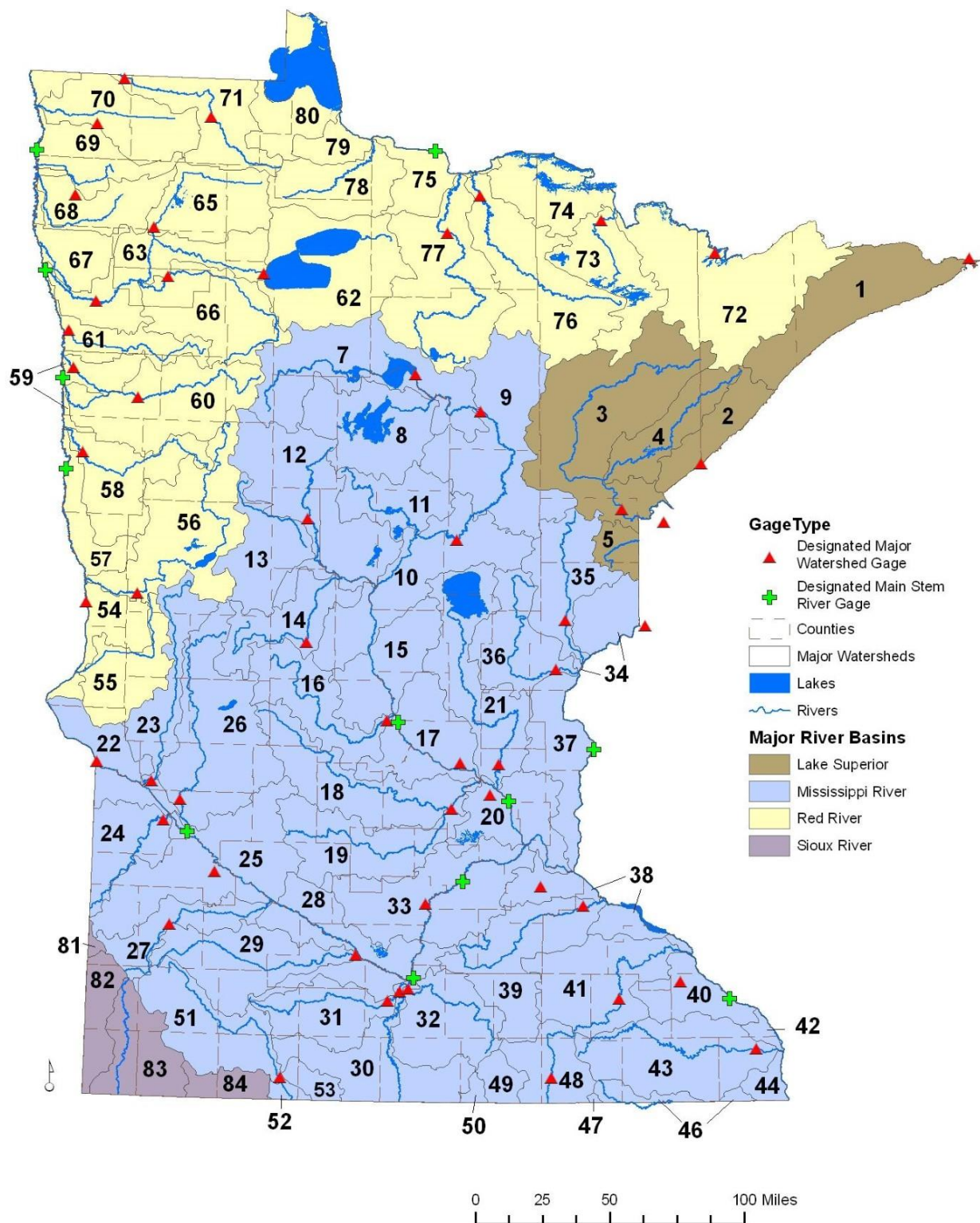


Figure 2

Table 1. Designated Stream Gages and Annual Q90 Flow Values

No.	Major Watershed	Name of Designated Watershed Monitoring Gage	USGS Station ID No. ¹	Annual Q90 Flow (in cfs)
1	Lake Superior – North	Pigeon River near Grand Portage	04010500	80
2	Lake Superior – South	Knife River near Two Harbors	04015330	4.4
3	St. Louis River	St. Louis River at Scanlon	04024000	624
4	Cloquet River	<i>Refer to gage for Watershed No. 3</i>		
5	Nemadji River	Nemadji River near South Superior, WI	04024430	54
6	unassigned number			
7	Mississippi River (Headwaters)	Lake Winnibigoshish Dam at Bena*	MNBM5 ²	100
8	Leech Lake River	<i>Refer to gage for Watershed No. 7</i>		
9	Mississippi River (Grand Rapids)	Mississippi River at Grand Rapids	05211000	302
10	Mississippi River (Brainerd)	Mississippi River at Aitkin	05227500	930
11	Pine River	<i>Refer to gage for Watershed No. 10</i>		
12	Crow Wing River	Crow Wing River at Nimrod	05244000	216
13	Redeye River (Leaf River)	<i>Refer to gage for Watershed No. 12</i>		
14	Long Prairie River	Long Prairie River at Long Prairie	05245100	35
15	Mississippi River (Sartell)	<i>Refer to gage for Watershed No. 16</i>		
16	Sauk River	Sauk River near St. Cloud	05270500	40
17	Mississippi River (St. Cloud)	Elk River near Big Lake	05275000	70
18	North Fork Crow River	Crow River at Rockford	05280000	42
19	South Fork Crow River	<i>Refer to gage for Watershed No. 18</i>		
20	Mississippi River (Metro)	Elm Creek near Champlin [also see Section 3 above]	05287890	1.5
21	Rum River	Rum River near St. Francis	05286000	120
22	Minnesota River (Headwaters)	Minnesota River at Ortonville	05292000	1.4
23	Pomme de Terre River	Pomme de Terre River at Appleton	05294000	8.4
24	Lac qui Parle River	Lac qui Parle River at Lac Qui Parle	05300000	0.9
25	Minnesota River (Granite Falls)	Yellow Medicine River near Granite Falls	05313500	2.7
26	Chippewa River	Chippewa River near Milan	05304500	20
27	Redwood River	Redwood River near Marshall	05315000	2.4
28	Minnesota River (Mankato)	<i>Refer to gage for Watershed No. 29</i>		
29	Cottonwood River	Cottonwood River near New Ulm	05317000	14
30	Blue Earth River	Blue Earth River near Rapidan	05320000	46
31	Watsonwan River	Watsonwan River near Garden City	05319500	14
32	Le Sueur River	Le Sueur River near Rapidan	05320500	18
33	Minnesota River (Shakopee)	High Island Creek near Henderson	05327000	2.2
34	St. Croix River (Upper)	St. Croix River at Danbury, WI	05333500	720
35	Kettle River	Kettle River below Sandstone	05336700	125
36	Snake River	Snake River near Pine City	05338500	83
37	St. Croix River (Stillwater)	<i>Refer to gage for Watershed No. 36</i>		

38	Mississippi River (Red Wing & Lake Pepin)	Vermillion River near Empire	05345000	18
39	Cannon River	Cannon River at Welch	05355200	110
40	Mississippi River (Winona)	Whitewater River near Beaver	H40016001 ³	102
41	Zumbro River	South Fork Zumbro River at Rochester	05372995	47
42	Mississippi River (La Crescent)	<i>Refer to gage for Watershed No. 43</i>		
43	Root River	Root River near Houston	5385000	270
44	Mississippi River (Reno)	<i>Refer to gage for Watershed No. 43</i>		
45	unassigned number			
46	Upper Iowa River	<i>Refer to gage for Watershed No. 43</i>		
47	Wapsipinican River	<i>Refer to gage for Watershed No. 43</i>		
48	Cedar River	Cedar River near Austin	05457000	46
49	Shell Rock River	<i>Refer to gage for Watershed No. 48</i>		
50	Winnebago River (Lime Creek)	<i>Refer to gage for Watershed No. 48</i>		
51	W. Fork Des Moines River (Headwaters)	Des Moines River at Jackson	05476000	4.9
52	W. Fork Des Moines River (Lower)	<i>Refer to gage for Watershed No. 51</i>		
53	E. Fork Des Moines River	<i>Refer to gage for Watershed No. 51</i>		
54	Bois de Sioux River	Bois de Sioux River near Doran	05051300	0.87
55	Mustinka River	<i>Refer to gage for Watershed No. 54</i>		
56	Otter Tail River	Otter Tail River near Fergus Falls	05046000	48
57	Red River of the North (Headwaters)	<i>Refer to gage for Watershed No. 58</i>		
58	Buffalo River	Buffalo River at Dilworth	05062000	11
59	Marsh River	Marsh River near Shelly	05067500	0
60	Wild Rice River	Wild Rice River at Twin Valley	05062500	18
61	Sand Hill River	Sand Hill River at Climax	05069000	9.9
62	Upper and Lower Red Lake River	Red Lake River at Red Lake	05074500	48
63	Red Lake River	Red Lake River at Crookston	05079000	129
64	Unassigned number			
65	Thief River	Thief River near Thief River Falls	05076000	0
66	Clearwater River	Clearwater River at Plummer	05078000	35
67	Grand Marais Creek	<i>Refer to gage for Watershed No. 68</i>		
68	Snake River	Middle River at Argyle	05087500	0
69	Tamarack River	<i>Refer to gage for Watershed No. 68</i>		
70	Two River	South Branch Two Rivers at Lake Bronson	05094000	1.0
71	Roseau River	Roseau River near Caribou	05112000	11
72	Rainy River (Headwaters)	Basswood River near Winton	05127500	354
73	Vermillion River	Vermilion River near Crane Lake	05129115	119
74	Rainy River (Rainy Lake)	<i>Refer to gage for Watershed No. 73</i>		
75	Rainy River (Manitou)	<i>Refer to gage for Watershed No. 77</i>		
76	Little Fork River	Little Fork River at Little Fork	05131500	88
77	Big Fork River	Big Fork River at Big Falls	05132000	85

78	Rapid River	Roseau River below South Fork near Malung	05104500	2.1
79	Rainy River (Baudette)	<i>Refer to gage for Watershed No. 78</i>		
80	Lake of the Woods	<i>Refer to gage for Watershed No. 71</i>		
81	Big Sioux River (Medary Creek)	<i>Refer to gage for Watershed No. 83</i>		
82	Big Sioux River (Pipestone)	<i>Refer to gage for Watershed No. 83</i>		
83	Rock River	Rock River at Rock Valley, IA	06483500	20
84	Little Sioux River	<i>Refer to gage for Watershed No. 83</i>		

¹MN DNR relies on USGS gaging stations for use on the MN DNR Cooperative Stream Gaging [website](https://www.dnr.state.mn.us/waters/csg/index.html) (<https://www.dnr.state.mn.us/waters/csg/index.html>).

For most current information go to the USGS [website](https://waterdata.usgs.gov/mn/nwis/) (<https://waterdata.usgs.gov/mn/nwis/>).

²Army Corp of Engineers gaging station.

³MN DNR gaging station in cooperation with the Minnesota Pollution Control Agency and the National Weather Service.

⁴ The stream flows at this site may be impacted by the dam control structure near the gaging site.

4. Appropriations Directly From Main Stem Rivers

Stream flow levels at or below Q90 at a designated major watershed monitoring gage will activate appropriation suspension procedures in the entire major watershed. Suspension procedures will not commence for appropriations downstream of the main stem river gage site that have fallen below Q90. The main stem rivers include: Minnesota River, Mississippi River, Rainy River, Red River of the North, and St. Croix River.

Stream flows at or below Q90 at a designated main stem river gage on these five main stem rivers could result in suspension of surface water appropriation permits in all contributing watersheds upstream of the designated main stem river gage, depending on the breadth and severity of drought conditions. Designated main stem river gages and their Q90s are shown in Table 1a.

Table 1a. Designated Main Stem River Gages and Annual Q90 Flow Values

Watershed Number	Designated Main Stem River Gage	USGS Station ID No. ¹	Q90 Flow (in cfs)
	Mississippi River		
7	Lake Winnibigoshish Dam at Bena ²	MNBM5 ³	100
9	Mississippi R. at Grand Rapids	05211000	302
10	Mississippi River at Aitkin	05227500	930
20	Mississippi River near Brooklyn Park	05288500	2290
40	Mississippi River at Winona	05378500	10200
	Minnesota River		
25	Minnesota River at Montevideo	05311000	41
28	Minnesota River at Mankato	05325000	215
33	Minnesota River near Jordan	05330000	369
	St. Croix River		
37	St. Croix River at St. Croix Falls	05340500	1600
	Red River of the North		

57	Red River at Fargo	05054000	50
59	Red River at Halstad	05064500	262
67	Red River at Grand Forks	05082500	320
69	Red River at Drayton	05092000	550
	Rainy River		
75	Rainy River at Manitou Rapids ²	05133500	4960

¹ MN DNR relies on USGS gaging stations for use on the MN DNR Cooperative Stream Gaging [website](https://www.dnr.state.mn.us/waters/csg/index.html) (<https://www.dnr.state.mn.us/waters/csg/index.html>). For most current information go to the USGS [website](https://waterdata.usgs.gov/mn/nwis/) (<https://waterdata.usgs.gov/mn/nwis/>).

²The stream flows at these sites may be impacted by dams near the gaging sites.

³Army Corp of Engineers gaging station.

Using Current Q90 Values

The Q90 values listed in this document are current based on an update by the DNR Water Monitoring and Surveys Unit in 2015. They are updated by DNR every 5 years. You can view the current stream flows by looking up the individual Station Number (Gage ID) at the DNR Cooperative Stream Gaging site here:

<https://www.dnr.state.mn.us/waters/csg/index.html>.

The DNR utilizes USGS stream gaging sites throughout the state to cooperatively monitor stream flows. You can access the USGS gaging sites from the DNR Cooperative Stream gaging website.

The Q90 values in the table above may not represent the currently used Q90 values. For the most current Q90 values see the DNR weekly stream flow report on the following DNR website:

https://www.dnr.state.mn.us/waters/surfacewater_section/stream_hydro/streamflow_weekly.html.

5. Suspensions on Individual Public Waters Basins

Water appropriations from individual public waters basins will be subject to suspension, if the major watershed unit that they are located within is below the Q90 and the DNR Ecological and Water Resources Division Director has decided permitted use within that watershed will be suspended.

Appropriations from an individual public waters basin may be suspended even though the major watershed containing the basin is not suspended, if water levels reach or fall below a specified protection elevation in applicable permits. The EWR Division Director will make decisions on suspension and reinstatement of permits authorizing appropriation from individual basins based on information and recommendations from DNR EWR staff.

Minnesota Statutes 103G.285, subdivision 3(b) states a protection elevation must be based on an analysis of important aquatic vegetation, characteristics related to fish and wildlife habitat, existing uses by the public and riparian landowners, the total volume of the basin, and the slope of the littoral zone, and any statistical analysis of lake elevation records of sufficient quality and length.

If a protection elevation is required for a basin and not specified in the applicable permit(s), the following protection elevations will apply:

- a) For basins with a functioning outlet below their ordinary high water level (OHW), the basin's runout elevation will be used as the protection elevation for permit suspension.

- b) For basins without a functioning outlet below the OHW (i.e., landlocked basins), the protection elevation for permit suspension will be 1.5 feet below the OHW.

The EWR Division Director must approve any and all exceptions to this effort.

6. State Border Waters

Permits for appropriations taken directly from watercourses forming the boundary between Minnesota and another state or province will not be restricted or suspended unless the adjoining state or province jointly imposes restrictions. The Director will consult with the adjoining state or province and the EWR Division Management Team in making decisions on border waters appropriations.

7. Early Notice to Appropriators

The DNR EWR Conservation Assistance and Regulation (CAR) Section may send written notice of low flow conditions within a major watershed to appropriators whose permits are subject to suspension. If possible, these notices should occur prior to flows dropping to the Q90.

The purpose of this low flow notice is to encourage appropriators to conserve water; implement water allocation plans to reduce the likelihood of suspension; and develop contingency or alternate sources of water. Notice may also be given by radio, television, newspaper, or email. Prior to sending an early notice, the CAR Section and Water Regulations Unit (WRU) staff will connect with the Area Hydrologists and/or permit leads to review the water use permits that would receive an early notice. This is an important step to verify the actual water use prior to communicating with the permittee about a potential permit suspension. The EWR Division Director will consult with the CAR Section Manager, the appropriate Regional Manager(s), the Inventory, Monitoring, and Analysis Section Manager, and other field and/or technical staff prior to sending these notices.

In addition, DNR EWR Area Hydrologists and/or permit leads may be assigned to make courtesy contacts with legislators, county offices, watershed districts, and other local government staff in the affected watershed. Additionally staff may be required to develop and distribute a news release, as necessary.

8. Permit Suspension and Reinstatement Notices

The EWR Division Director will consider suspension of surface water appropriation permits when the average daily flow has been at or below Q90 for 120 hours, except:

- a. In watersheds with approved allocation plans that specify unique appropriation limits and permit suspension/reinstatement procedures;
- b. In watersheds where there are no permitted surface water appropriations occurring that are subject to suspension; or
- c. When the EWR Division Director determines that a specific permit will not be suspended for good cause in order to use water resources of the state in the best interests of its people, and to promote the public health, safety or welfare, in accordance with Minnesota Statutes, section 103A.201, subdivision 1.

DNR area hydrologists and permit leads will contact affected appropriators by phone to inform them that a suspension decision has been made. Suspension notices are sent through the Minnesota Permitting and Reporting System (MPARS) after the EWR Division Director has made the permit suspension decision. The WRU within the CAR Section will send certified-mail letters about the permit suspension to the affected appropriators.

Reinstatement of suspended permits will be considered when average daily flow at the designated gage exceeds, for at least 72 hours, the Q90 plus the cumulative instantaneous total of all suspended

appropriations from contributing surface water sources within the watershed. Once the permit reinstatement decision is made by the EWR Division Director, area hydrologists or permit leads will contact suspended permit holders to inform them of the water flows or water levels and the permit reinstatement process. The WRU staff within the CAR Section will reinstate the permits in MPARS and mail paper copies of the reinstatement letters to all affected appropriators.

These criteria apply to all watersheds, except those with approved allocation plans that specify unique appropriation limits and suspension/reinstatement procedures (see Section 17).

9. Roles of DNR Ecological and Water Resources Personnel

The **Conservation Assistance and Regulation (CAR) Section** will create and maintain lists and copies of all surface water appropriation permits organized by major watersheds, and coordinate communications regarding permit suspension procedures with DNR Ecological and Water Resources' area hydrologists, permit leads and permit holders. Area hydrologists will be provided with a list from MPARS of all surface water permits within a watershed that are subject to suspension. Area hydrologists will have an opportunity to review and comment on the permits being considered for suspension prior to suspensions being ordered by the EWR Division Director.

The **Inventory, Monitoring, and Analysis (IMA) Section** will monitor stream flow conditions and provide DNR EWR staff with a weekly [Stream Flow Report](#) from April through September of each year. The primary sources of stream flow information are derived from the automated stream flow gages maintained by the U.S. Geological Survey, the Army Corps of Engineers, and the DNR Ecological and Water Resources Division. Currently, about 29 of the state's 81 major watershed units do not contain an automated stream flow gage or one with sufficient record, so data from neighboring watersheds are used to estimate stream flow conditions. Field verification of the discharge rate is needed prior to any permit suspensions due to low flows or water levels.

Field measurements are often necessary to verify actual flows and stage discharge relationships because of the following issues:

- 1) Rating curves, which are used to show the relationship between water stage and discharge, can become unreliable at extremely low flows; and
- 2) Automated gages can fail or be shut down.

The IMA Section staff will coordinate with the U.S. Geological Survey, DNR Ecological and Water Resources area hydrologists and permit leads, and other agencies and local units of government in verifying flows during low flow periods.

After consultation with the appropriate EWR Division section managers, the Division **Director** will decide when and where to suspend and reinstate surface water appropriation permits taking into consideration all relevant factors including: climatic conditions, time of year, statutory water allocation priorities, resource impacts, and public health, safety and welfare.

Table 2 summarizes the DNR EWR Division suspension procedures and the roles of EWR Division personnel.

Table 2. Summary of DNR Surface Water Appropriation Suspension Procedures

Stream Flow or Basin Water Level	Phase	DNR Ecological and Water Resources' Actions in Affected Watersheds
Normal to below normal	Monitor	Inventory, Monitoring, and Analysis Section: <ol style="list-style-type: none"> 1. Weekly stream flow report by remote methods and lake gaging program. 2. Weekly and seasonal precipitation reporting. 3. Monthly statewide hydrologic report.
Extended period of time below normal	Monitor more closely	Inventory, Monitoring, and Analysis Section: <ol style="list-style-type: none"> 1. Ask National Weather Service to provide low-flow forecasts. 2. Identify geographical extent of precipitation deficit, and describe in historical context. 3. Offer short-term and long-range precipitation outlooks.
Approaching Q90 or basin protection elevation	Continue to monitor closely	Inventory, Monitoring, and Analysis Section: <ol style="list-style-type: none"> 1. Arrange for field staff assistance in obtaining field data. 2. Seek additional assistance from the USGS, local governments, and other agencies in obtaining field data. 3. Provide precipitation information to include in early notices to permittees.
At or below Q90 or basin protection elevation	Verify	Inventory, Monitoring, and Analysis Section and Field Hydrologists: <ol style="list-style-type: none"> 1. Verify flows and basin water elevations in field. 2. WMS Unit staff send current Q90 values following the weekly streamflow report for an up-to-date information delivery. Provide update on gage accuracy to WRU, as needed. 3. Review Quantitative Precipitation Forecast (QPF) from NWS and consider potential changes to flows and water levels in affected watershed. Conservation Assistance and Regulation Section: <ol style="list-style-type: none"> 1. Utilize MPARS permit suspension module to generate a list of water appropriation permits in affected watersheds below Q90 values. 2. Share the list of permits in the affected watersheds with Regional area hydrologists and permit leads to review and report on the specifics for each permit prior to making a suspension decision. 3. Regional staff and managers, CAR Section, and the WRU review the area hydrologist reports prior to making suspension decisions.

Flows and/or water levels are at or below Q90 or basin protection elevation	Consult and prepare for decision	Inventory, Monitoring, and Analysis Section: <ol style="list-style-type: none"> 1. When field verification of water flows and/or levels are completed, the WMS Unit Supervisor informs the IMA Section Manager and CAR Section Manager. CAR and IMA Section Managers inform EWR Division Director that water monitoring equipment is accurate and working correctly.
Flows \leq Q90, or water level \leq basin protection elevation, for at least 120 hours	Verify Flows and Water Levels	Inventory, Monitoring and Analysis Section: <ol style="list-style-type: none"> 1. WMS Unit confirm water flows and water levels are at or below Q90 for at least 120 hours. 2. WMS Unit notifies the WRU and CAR Section flows and water levels are at or below Q90 for at least 120 hours. 3. Review Quantitative Precipitation Forecast (QPF) from NWS and consider potential changes to flows and water levels in affected watershed. 4. CAR Section Manager informs EWR Division Director that flows and water levels are at or below Q90 for at least 120 hours.
Flows \leq Q90, or water level \leq basin protection elevation, for at least 120 hours	Suspension Decision	EWR Division Director: <ol style="list-style-type: none"> 1. Director considers to suspend permits following 120 hours at or below the Q90 value(s) and verification by WMS Unit of gage readings and equipment. 2. Consults with CAR Section, WRU, IMA Section, & WMS Unit to identify a date for permit suspension. 3. Division Director determines a date for permit suspension and notifies Commissioner's Office, Deputy Director, Regional Managers and Supervisors, CAR Section Manager and IMA Section Manager.
Flow \leq Q90, or water level \leq basin protection elevation, for at least 120 hours	Suspend Permits	<ol style="list-style-type: none"> 1. Utilize MPARS suspension module to suspend permits on appropriate suspension date (Water Regulations Unit, CAR Section). 2. Email notification with a letter attached is sent to the permittee through MPARS and the permit suspension becomes effective as of the date of notification. 3. Send a copy of the letter from MPARS via certified-mail to the permittee via USPS mail (Water Regulations Unit, CAR Section). 4. Email notification of permit suspension from MPARS also includes a notification to appropriate DNR staff in EWR, Enforcement, and Fish and Wildlife Divisions. 5. Area hydrologists or permit leads contact permittees directly via a phone call about permit suspension and communications from MPARS.

<p>Flow returns to greater than Q90 plus the sum of all suspended appropriations pumping rates, and/or greater than water level basin protection elevation, for at least 72 hours</p>	<p>Reinstate Permits</p>	<ol style="list-style-type: none"> 1. WMS Unit informs WRU and area hydrologists and permit leads that flows and water levels are at or above Q90 values. 2. WRU calculates the sum of pump rates for all suspended appropriations within the affected watershed. To reinstate a permit, the flow rate at the monitoring gage site must exceed the Q90 value plus the calculated value of permitted pumping rates. 3. Reinstate suspended water appropriation permits in the MPARS permit suspension module (WRU, CAR Section). 4. Email notification is sent to permittees from MPARS that permits are re-instated with a date when appropriation can commence. WRU will mail a copy of the re-instatement letter for permittees that do not have a MPARS user account (WRU, CAR Section). 5. Area hydrologists or permit leads make a phone call to permittees that permit(s) are re-instated as of the date indicated from the MPARS and mailed letter notice (phone call, if necessary). 6. The email notification of permit re-instatement from MPARS will notify the DNR EWR, Enforcement, and Fish and Wildlife Divisions (as necessary).
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Timeframes are not included in this table recognizing that some action items may overlap, hydrologic conditions within a given watershed can change rapidly, and actual field conditions and water use may not be as obvious as initially perceived.

Technical and Statutory Considerations

10. Determination of Consumptive Uses

A determination of consumptive and non-consumptive water use is required for each surface water appropriation permit because only consumptive water uses are subject to suspension.

Minnesota Statutes, section 103G.285, subdivision 2 directs the DNR to limit consumptive appropriations of surface water under certain low flow conditions:

If data are available, permits to appropriate water from natural and altered natural watercourses must be limited so that consumptive appropriations are not made from the watercourses during periods of specified low flows. The purpose of the limit is to safeguard water availability for instream uses and for downstream higher priority users located reasonably near the site of appropriation.

Minnesota Statutes, section 103G.261, which establishes water allocation priorities, defines consumptive use as:

...water withdrawn from a supply that is lost for immediate further use in the area.

Recodification of the statutes in 1990 added a similar definition under Minnesota Statutes, section 103G.005, subdivision 8:

Consumptive use means water that is withdrawn from its source for immediate further use in the area of the source and is not directly returned to the source.

Therefore, if all or some of the water that is appropriated is not returned to its source, it is considered consumptive. Water appropriations for irrigation are considered 100% consumptive, however, almost all of the water withdrawn for power plants that do not use cooling towers or recirculation ponds is returned to the source.

The following table lists the water use types for permitted appropriations that will likely not be suspended due to the type of appropriation. This is one of the first steps to evaluating whether a permitted use could be suspended or not. An example of non-consumptive uses is where the water is appropriated and passed through a facility or process and discharged to the same surface water resource downstream without being consumed (i.e., the same volume of water appropriated is discharged to the same surface water). Table 3 also lists other factors that determine why a permitted use would not be suspended due to low water levels or flows in a surface water.

Table 3. Water Use Types that Will Not be Suspended due to the type of Water Appropriation

Reason to Not Suspend Permit	Water Use Type
Public health & welfare, first priority uses only	Public water supply
Public health & welfare, first priority uses only	Private water supply
Public health & welfare	Pollution Containment
Non-consumptive uses only	Hydropower
Non-consumptive uses only	Steam power cooling once-through

Non-consumptive uses only	Heat pump
Non-consumptive uses only	Coolant pumps
Non-consumptive uses only	Pulp & paper processing
Non-consumptive uses only	Mine processing (quarry)
Non-consumptive uses only	Sand & gravel washing from pits or quarries
Non-consumptive uses only	Aquaculture
Contributes to surface water flows and levels	Mine dewatering
Contributes to surface water flows and levels	Quarry dewatering
Contributes to surface water flows and levels	Sand/gravel dewatering
Contributes to surface water flows and levels	Dewatering
Water use is groundwater after dug pit or pond is created as a source for irrigation	Golf course irrigation (pond or pit)
Low flows typically occur outside the season for appropriation	Snow/ice making*
Since these activities typically provide water for basins and watercourses; the exception is for water level maintenance from one surface water to another	Water level maintenance

*Most snow and ice-making water appropriations occur during the winter rather than the typical growing season when surface water permit suspensions generally occur. However, the DNR may establish a protected flow for a stream where a snow making operation is appropriating during the winter season and that use may be subject to suspension during the authorized season of appropriation (winter) for that type of water use.

Similarly, wild rice operations typically flood their fields in the spring and occasionally in the fall which is outside the normal period when surface water permit suspensions occur. However, if flows are below the Q90 during the time of appropriation for wild rice operations then those water use types would be subject to permit suspension. Low flows typically occur in mid to late summer and that period of time is when wild rice operations are usually harvesting rather than flooding their fields.

11. Groundwater Appropriations Directly Affecting Surface Waters

In accordance with Minnesota Rules, appropriations from dug pits and groundwater sources that are hydrologically connected to surface water sources will be considered for suspension when the major watershed is suspended.

Minnesota Rules part 6115.0670, subpart 3.C.(4):

The commissioner shall limit the use of dug pits for appropriating water when such pits are so located that they may reasonably be expected to affect protected flows of watercourses or protection elevations of basins.

Minnesota Rules part 6115.0670, subpart 3.C.(2):

If the commissioner determines, based on substantial evidence, that a direct relationship of ground and surface waters exists such that there would be adverse impact on the surface waters through reduction of flows or levels below protected flows or protection elevations the amount and timing of the proposed appropriation from ground water shall be limited.

Area Hydrologists, with assistance from the IMA Section Groundwater Technical Analysis Unit, are responsible for determining if appropriations from dug pits and groundwater sources should be suspended due to adverse impacts on surface water flows and elevations. Surface water appropriation permits subject to suspension should include permit conditions that address the likelihood of suspension due to low flows or water levels and comply with all other permit requirements.

Where the IMA Section Groundwater Technical Analysis Unit has determined that the proposed appropriation will impact flows or water levels of a surface water(s) due to groundwater appropriation, the area hydrologist or permit lead will need to select a checkbox in the 'Water Use Administration' section of MPARS for the particular application or permit file. This checkbox allows the groundwater permits to be included when the Water Regulations Unit staff identify permits for potential suspension during low flows or water levels within a particular watershed.

Decisions on suspension and reinstatement of permits authorizing appropriations from dug pits or groundwater sources that reduce surface water flows or levels will be made on a case-by-case basis by the EWR Division Director based on information and recommendations from the EWR Division staff.

12. Season of Water Appropriation

Seasonal dates of water appropriation have been removed from water appropriation permits since water use has changed for many types of activities throughout the state. For example, the DNR Water Regulations Unit has removed dates of appropriation from all agricultural irrigation permits through the issuance of a general permit that states no seasonal dates are needed.

An assessment of water requirements for crop irrigation may be appropriate late in the season. Permit suspensions may not be necessary, if water levels drop to suspension levels after crop irrigation is no longer needed. While dates for season of appropriation for specific use types for most water use permits have been removed, DNR staff will consider whether a permit suspension late in the season is still a reasonable and effective strategy. This will likely depend upon whether a permitted user intends to irrigate at the end of the typical growing season. Coordination and communication with the permittee will be important to this decision-making.

13. Water Conservation Requirements

Some permitted water users have consumptive use, but are not subject to suspension (e.g., public and private water suppliers, and pollution containment, among others). The reason for this is because of public health and welfare reasons (see Table 3). Some water uses, such as drinking water from public water supplies and pumping for pollution containment, are necessary even during times of low water flows and water levels. However, these permitted water users are expected to comply with, and may be reminded of the need to comply with, Minnesota Rules, part 6115.0770, Water Conservation:

In order to maintain water conservation practices in the water appropriation and use regulatory program it is necessary that existing and proposed appropriators and users of waters of the state employ the best available

means and practices based on economic considerations for assuring wise use and development of the waters of the state in the most practical and feasible manner possible to promote the efficient use of waters. Based on data submitted by applicants and permittees and current information on best available water conservation technology and practice the commissioner, in cooperation with the owners of water supply systems, may analyze the water use practices and procedures and may require a more efficient use of water to be employed by the permittee or applicant, subject to notice and opportunity for hearing.

14. Water Supply Plans for Municipal/Public Water Suppliers

Minnesota Statutes, section 103G.291, subdivision 3 requires every public water supplier serving over 1,000 people to submit a water supply plan to the DNR for approval, and update the plan every 10 years. Plans must address water demand reduction measures and water allocation priorities, and must identify alternative sources of water for use in an emergency.

15. Emergency Declaration by the Governor and Conservation of Public Supply

Minnesota Statutes, section 103G.291, subdivision 1 directs public water suppliers to enforce water restrictions, if the Governor declares a critical water deficiency:

- a) If the governor determines and declares by executive order that there is a critical water deficiency, public water supply authorities appropriating water must adopt and enforce water conservation restrictions within their jurisdiction that are consistent with rules adopted by the commissioner.*
- b) The restrictions must limit lawn sprinkling, vehicle washing, golf course and park irrigation, and other nonessential uses, and have appropriate penalties for failure to comply with the restrictions.*

In accordance with the state [Minnesota Statewide Drought Plan](https://files.dnr.state.mn.us/natural_resources/climate/drought/drought_plan_matrix.pdf) (https://files.dnr.state.mn.us/natural_resources/climate/drought/drought_plan_matrix.pdf), the DNR will recommend to the Governor when and where a critical water deficiency should be declared. The Statewide Drought Plan identifies specific Mississippi River low flows that will trigger actions needed to maintain commercial navigation and minimal health and safety needs for drinking water supply and power generation in the Twin Cities Metropolitan Area.

16. Allocation Plans for Watersheds

Water appropriation limits and permit suspension and reinstatement procedures may be developed for a specific watershed under a water allocation plan approved by the Division Director as stated in Minnesota Rules, part 6115.0740. An allocation plan may not coincide with the typical major watershed size. Approval of a water allocation plan in a specific watershed may require water users to pay for the installation and operation of one or more automated stream flow gages. One example of a water allocation plan involved wild rice growers on the Clearwater River in northwestern Minnesota.

Water users with an approved water allocation plan are still subject to the permit suspension procedures outlined above that relies on Q90 stream flow values.

17. Guidelines for Surface Water Allocation Plans

The purpose of allocation planning is to provide the maximum use of a limited water supply among competing water users, while protecting the resource and the rights of the public and other riparian landowners.

A water use conflict exists when the available supply of waters in a given area is limited to the extent that there are competing demands among existing and proposed users that exceed the reasonably available waters. Water

use conflicts commonly occur during extended dry periods when surface water supplies are at low levels and demands for water are high. Minnesota Statutes section 103G.285 provides for the establishment of protection limits below which no appropriation can occur in order to protect the resource. These protection limits include protected flows for watercourses and protective elevations for water basins.

When water levels reach a protection limit, permitted appropriators are notified to cease water withdrawals. Suspension of appropriations continues until the level of the resource is above the protection limit plus the total water use of all authorized appropriations. However, with an approved allocation plan, appropriation could occur sooner, as long as the water level is above the protection limit. While this may not allow everyone to pump all the water they want, it would provide for the earliest reinstatement of limited water withdrawals.

In 1973 the Minnesota legislature established priorities of water use to be used in times of limited water availability. These priorities become important in allocating available water above established protection limits. Highest priority water users are satisfied first and any remaining available water is allocated to succeeding priority water users. In a water use conflict water users are required to develop allocation plans that provide for an equitable distribution of available water within each priority class.

Minnesota Statutes section 103G.261 outlines the following water allocation priorities for the consumptive appropriation and use of water:

First priority, domestic water supply, excluding industrial and commercial uses of municipal water supply, and use for power production that meets contingency planning provisions of MS § 103G.285, subdivision 6;

Second priority, a use of water that involves consumption of less than 10,000 gallons of water per day;

Third priority, agricultural irrigation, and processing of agricultural products involving consumption in excess of 10,000 gallons per day;

Fourth priority, power production in excess of the use provided for in the contingency plan developed under MS § 103G.285, subdivision 6;

Fifth priority, uses, other than agricultural irrigation, processing of agricultural products, and power production, involving consumption in excess of 10,000 gallons per day; and

Sixth priority, nonessential uses.

Amy Juntunen

From: Judie Anderson
Sent: Wednesday, August 11, 2021 3:51 PM
To: Amy Juntunen
Subject: FW: Elm Creek/Pioneer-Sarah

From: Joel Jamnik <JJamnik@ck-law.com>
Sent: Wednesday, August 11, 2021 2:28 PM
To: Judie Anderson <Judie@jass.biz>
Subject: Re: Elm Creek/Pioneer-Sarah

Though the majority of public entities went back to in person meetings and though the current wave is primarily among the unvaccinated, the pandemic is clearly still here even though the emergency has been allowed to expire. 13D.021 allows remote meetings in either situation, not just when there is a declared emergency:

13D.021 MEETINGS BY TELEPHONE OR OTHER ELECTRONIC MEANS; CONDITIONS.

Subdivision 1.Conditions.

A meeting governed by this section and section [13D.01](#), subdivisions 1, 2, 4, and 5, may be conducted by telephone or other electronic means so long as the following conditions are met:

(1) *the presiding officer, chief legal counsel, or chief administrative officer for the affected governing body determines that an in-person meeting or a meeting conducted under section [13D.02](#) is not practical or prudent because of a health pandemic or an emergency declared under chapter 12;*

(2) all members of the body participating in the meeting, wherever their physical location, can hear one another and can hear all discussion and testimony;

(3) members of the public present at the regular meeting location of the body can hear all discussion and testimony and all votes of the members of the body, unless attendance at the regular meeting location is not feasible due to the health pandemic or emergency declaration;

(4) at least one member of the body, chief legal counsel, or chief administrative officer is physically present at the regular meeting location, unless unfeasible due to the health pandemic or emergency declaration; and

(5) all votes are conducted by roll call, so each member's vote on each issue can be identified and recorded.

Joel J. Jamnik
CAMPBELL KNUTSON, P.A.
Grand Oak Office Center I
[860 Blue Gentian Road, Suite 290](#)
[Eagan, MN 55121](#)
[\(651\) 234-6219](#) • Fax: [\(651\) 234-6237](#)
jjamnik@ck-law.com • www.ck-law.com

On Aug 11, 2021, at 2:13 PM, Judie Anderson <Judie@jass.biz> wrote:

What are your legal thoughts about returning to in-person meetings? I know we are not longer in an emergency scenario, but with vaccinated folks becoming infected and with the onset of the Delta variant is there some wiggle room to continue virtual meetings?

- Judie

Judie A. Anderson

WATERSHED ADMINISTRATOR | JASS | 3235 FERNBROOK LANE PLYMOUTH MN 55447

judie@jass.biz | D 763.553.1144 | F 763.553.9326

Representing Elm Creek, Shingle Creek, West Mississippi, and Pioneer-Sarah Creek WMOs
and Clearwater River WD

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Amy Juntunen

From: Tori Leonhardt <tleonhardt@ci.greenfield.mn.us>
Sent: Wednesday, July 7, 2021 10:32 AM
To: Amy Juntunen
Cc: Margaret Webb; Judie Anderson
Subject: RE: PSCWC 2022 Budget

Margaret will have to answer this question,. I just instructed to forward any comments from the council meeting to you.

From: Amy Juntunen <Amy@jass.biz>
Sent: Wednesday, July 7, 2021 10:27 AM
To: Tori Leonhardt <tleonhardt@ci.greenfield.mn.us>
Cc: Margaret Webb <mwebb@ci.greenfield.mn.us>; Judie Anderson <Judie@jass.biz>
Subject: RE: PSCWC 2022 Budget

Hello Tori,

I don't recall instances of past inaccuracies for market value in Greenfield? We get the Market Value directly from the County. We don't change the numbers provided by the County. Is there any documentation on what the Mayor is referring to?

Thanks!

Amy Juntunen

JASS | 3235 FERNBROOK LANE, PLYMOUTH MN 55447
763.553.1144 | Fax 763.553.9326 | amy@jass.biz

From: Tori Leonhardt <tleonhardt@ci.greenfield.mn.us>
Sent: Wednesday, July 7, 2021 8:35 AM
To: Amy Juntunen <Amy@jass.biz>
Cc: Margaret Webb <mwebb@ci.greenfield.mn.us>
Subject: PSCWC 2022 Budget

Good morning Amy,

Margaret told me to email you this morning if the council had any comments last night in regard to the 2022 PSCWC Budget

Mayor Johnson wanted to make sure there will be an adjustment in 2022 for the past inaccuracies with the Market Value for Greenfield.

Tori Leonhardt
Zoning Administrator/Accountant
City of Greenfield
763-477-6464, ext. 103



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Ph: (763) 479-0515 | Fax: (763) 479-0519 | www.mapleplain.com

July 1, 2021

Pioneer-Sarah Creek Watershed Management Commission
Joseph Baker, Chairman
3235 Fernbrook Lane North
Plymouth, MN 55447

Dear Commissioners and Staff:

Thank you for the opportunity to review the PSCWMC 2022 budget, which we did at our June 28th City Council meeting. Currently, we have no comments or concerns.

The Maple Plain City Council extends their sincere thanks for being good stewards of our environment, as well as of the tax dollars of the citizens in our community. It is organizations like yours, working in cooperation with cities, that truly make a difference in the quality of our waterways and other natural resources.

Keep up the great work!

Sincerely,

Clarissa Hadler
City Administrator

From: [Kristopher Guentzel](#)
To: [Amy Juntunen](#); [Joe Baker](#); [Judie Anderson](#); [Catherine Cesnik \(cesnik@gmail.com\)](#); [Doug Baines \(dougaines@yahoo.com\)](#); [Andrew Simmons](#); [Margaret Webb](#); [Mark Kaltsas](#); [mworkcuff@ci.greenfield.mn.us](#); [itschumperlin@ci.minnetrista.mn.us](#); [caitlincahill@mapleplain.com](#); [Brian Vlach](#); [Mary L Karius](#); [Kevin Jullie \(kjullie@srfconsulting.com\)](#)
Cc: [Karen Galles](#); [Paul Stewart](#); [Andy Johnson](#)
Subject: FW: [External] Clean up the Crow
Date: Thursday, August 5, 2021 10:48:39 AM

Good morning all,

I wanted to forward this opportunity to some of our partners in western Hennepin, to see if your organization(s) may have any interest in participating in Clean up the Crow this year. The planned date for clean up is Saturday, September 25th. Our office is in the midst of our heavy field season and planning work for our strategic plan, so we aren't in a position to coordinate this work, but wanted to pass this along in case WMWA, Elm Creek WMC, Pioneer-Sarah WMC, and/or their participating cities wanted to take the lead.

I missed the chance to add this to our Elm Creek staff report, but will do so for Pioneer-Sarah's August meeting. I'll mention it in both organization's August meetings.

If you're interested, or have any questions, Andy Johnson w/ Middle Fork Crow River Watershed District is your guy. He'd been cc'd with this email.

Andy – feel free to Reply all with any additional details you can provide folks as well.

Kris Guentzel

Senior Water Resources Specialist
Hennepin County Environment and Energy

Office: 612-596-1171
kristopher.guentzel@hennepin.us | www.hennepin.us/environment
Pronouns: he/him

From: Andy Johnson <andy@mfcrow.org>

Sent: Wednesday, August 4, 2021 1:21 PM

To: Kala Kaehler <Kala@mfcrow.org>; Jon Morales <Jon@mfcrow.org>; Norman, Joseph - NRCS-CD, Litchfield, MN <Joseph.Norman@mn.nacdnet.net>; technfcrwsd@gmail.com; nfcrrwsd@tds.net; Johnson, Luke - NRCS-CD, Buffalo, MN <Luke.Johnson@mn.nacdnet.net>; OHare, Alicia - NRCS-CD, Buffalo, MN <Alicia.OHare@mn.nacdnet.net>; Nadeau, Daniel - NRCS-CD, Buffalo, MN <daniel.nadeau@mn.nacdnet.net>; Faber, Ellie - NRCS, Willmar, MN <Ellie.Faber@usda.gov>; ryan.peterson@mn.nacdnet.net; Kristopher Guentzel <Kristopher.Guentzel@hennepin.us>; Dennis Fuchs <dennis.fuchs@mn.nacdnet.net>; Wayne Cymbaluk <wayne.cymbaluk@mn.nacdnet.net>; Lenzmeier, Brittany - NRCS, Waite Park, MN <Brittany.Lenzmeier@mn.nacdnet.net>; Berg, Greg - NRCS-CD, Waite Park, MN <Greg.Berg@mn.nacdnet.net>; Matt.Anderson3@mn.nac

Subject: [External] Clean up the Crow

Hello everyone,

As you may know the CROW had previously organized the Clean up the Crow day going back since

2004, and it was not organized last year due to COVID. I would like to keep the event going in as many areas along the NFCR as possible but logistically I am not planning on trying to continue providing shirts, food, and gloves for all volunteers as in the past. The planned date for the cleanup is Sat Sept 25th with times that may vary with each locations volunteer base.

I will be contacting previous volunteers that are on file in the P3 folder on the SharePoint but if you know of organizations or individuals that may be willing to volunteer their time for the cleanup event please let me know.

If you think that I missed someone in your area (possibly Hennepin) please forward this email on, or contact me for any questions and recommendations.

More to come, Thanks



Andy Johnson
Project Manager
715-338-8686
Middle Fork Crow River Watershed District
PO Box 8, Spicer, MN 56288

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MEMORANDUM

TO: Pioneer-Sarah Creek Watershed Management Commission
FROM: Andrew Vistad, Hakanson-Anderson
DATE: August 11, 2021
SUBJECT: Staff Report

- 1. 2016-05 Proto Labs Parking Lot Expansion, Maple Plain.** The Commission approved this project contingent upon three conditions. One condition remains open - receipt of an Operation and Maintenance agreement on the biofiltration basin per Staff findings dated September 6, 2016. The agreement has been signed but remains to be recorded on the property title.
- 2. 2017-03 Equestrian Facility (Bel Farms) Independence.** This is a 16.5-acre rural residential parcel located approximately 500 feet north of the intersection of CR6 and Nelson Road. The owner is proposing to construct a new garage/apartment, horse stall barn, indoor arena, outdoor arena, six grass and four sand paddocks for horses. Because this project disturbs greater than 1.0 acre and creates 3.1 acres of additional impervious area, it triggers the Commission's review for Rules D and E. Staff provided grading and erosion control approval contingent upon (1) the applicant assuming the risk and responsibility for any changes to the site plans necessary for final Commission approval and (2) the City of Independence approving a grading permit. In September 2017 the Commission approved the Stormwater Management Plan contingent upon receipt of an approved long-term pond/basin O&M plan between the landowner and City, to be recorded on the land title. No new information has been received.
- 3. 2017-05 Ostberg Equestrian Facility, Independence.** This is a 40-acre agriculture parcel located just southwest of the intersections of CSAH 6 and Game Farm Road. The owner is proposing to construct a new home, two garages, a horse stall barn, indoor arena, outdoor ring, eight horse paddocks and an access drive off of CSAH 6. The project will disturb 7 acres during construction and create 1.69 acres of new impervious areas. Because this project disturbs more than 1.0 acre and creates 1.7 acres of additional impervious area, it triggers the Commission's review for Rules D and E. There are also two wetlands that have been delineated on this site, so the Commission wetland buffer requirements (Rule I) are triggered. The project was approved by the Commission at their November 2017 meeting contingent upon receipt of an approved long-term pond/basin O&M plan between the landowner and the City, to be recorded on the land title. This information has not yet been received.
- 4. 2018-010 Chippewa Estates, Loretto.** This is a 1.54-acre parcel located in the far northeast corner of Loretto on Chippewa Road. The project is proposing to subdivide the lot into four single family residential lots and triggers the Commission's review for Rules D and E. At their August 16, 2018 meeting, the Commission approved Staff findings with three conditions regarding the operations and maintenance plan, sequencing, and retrofitting of the pond. The only remaining item necessary for final approval is the Operation and Maintenance agreement on the stormwater system. If the City chooses not to maintain the filter system, the applicant must provide an O&M maintenance plan that is acceptable to the City and the Commission and must be recorded on the title to the property.
- 5. 2018-017 Crow River Overlook, Greenfield.** This is a 42-acre agriculture parcel located on CR 10 just north of 84th Avenue. Approximately 38 acres are east of CR 10 and 4 acres are located west of CR 10 along the Crow River. The applicant proposes to subdivide the property into an 8 large lot residential development. Lot sizes will range from 2.85 acres up to 10.1 acres. One cul-de-sac street will be constructed for access to the lots, with one street platted for future access to the property east of this project. One additional outlot will remain on the west side of CR 10. This project was reviewed for Rules

RULE D - STORMWATER MANAGEMENT

RULE E - EROSION AND SEDIMENT CONTROL

RULE F - FLOODPLAIN ALTERATION

Language in red indicates current updates

* indicates enclosure

RULE G - WETLAND ALTERATION

RULE H - BRIDGE AND CULVERT CROSSINGS

RULE I - BUFFERS

D, E, F and I. Staff findings of January 16, 2019 were approved by the Commission at their January 17, 2019 meeting. Approval was contingent upon (1) an Operation and Maintenance agreement with city or HOA, (2) planting and seeding plans for the biofiltration basins and buffer areas that fall into the cropland areas that require seeding and (3) typical emergency overflow details noted on the plans. Items 2 and 3 have been completed; Staff are awaiting the O & M agreement.

6. 2019-03 John Sega 9255 CR 6, Independence. This is an existing 78-acre parcel located on CR 6 about one-quarter mile east of the county border. The owner is proposing to construct a new indoor riding arena, parking, drive lanes, future hay barn, shed and hot-walker ring. Because this project disturbs greater than 1.0 acres and creates 1.1 acres of additional impervious area, it triggers the Commission's review for Rules D and E. At their August meeting, the Commission approved this project conditioned on receipt of a long-term O & M plan meeting Commission requirements and recorded on the land title with a copy provided to the Commission.

7. 2019-05 Green Acres East, Greenfield. This is a six-lot residential subdivision proposed on 34 acres at Schendel Lake Drive and Pioneer Trail. Initial findings found the site plans did not meet the Commission's requirements. An updated wetland replacement plan was received on August 1 and re-noticed per WCA public notice requirements. An updated site plan was received on August 6. In their findings dated September 13, 2019 Staff recommended approval contingent upon (1) an operations and maintenance plan being developed for the infiltration basins and approved by the City of Greenfield and the Commission. The O & M plans must be recorded on the property titles on lots 4, 5 and 6 (unless an HOA will be responsible, then it will be required in the HOA deed documents) and (2) no wetland impacts can occur until (a) wetland replacement credit purchases from BWSR Bank Accounts 1546 and 1542 have been certified by BWSR or (b) a \$21,500 cash or letter of credit escrow is received by the Commission. This plan was originally approved with conditions by the Commission at the September 19, 2019 meeting.

The developer submitted significant site plan changes in October, removing wetland impacts and reducing the number of lots from six to three plus an outlot. An infiltration basin will still be installed on the outlot to mitigate future impervious surface. Because the plan revision is a reduction of the previously approved plan, Staff administratively approved the project contingent on the original requirement, an O&M agreement for the infiltration basin recorded on the property deed or association documents. No wetland impacts can occur from this project and any future wetland impacts will need to be reviewed by the WCA LGU to be approved.

8. 2019-08 Adams Pest Control, Medina. Adam's Pest Control is planning to expand their current Medina facility. This property is located on the north side of State Highway 55, just west of Willow Drive. The entire parcel is 46-acres, but only the southern portion (Lot 1-26.6 acres) is being proposed for development at this time. This site plan consists of two new buildings which includes an office building and a warehouse/maintenance building with parking. This project will disturb 10.9 acres and create 4.6 acres of new impervious areas. The Commission's stormwater management plan requires compliance with Rules D, E, F and I. At their November meeting, the Commission approved this project conditioned on an O&M plan for the basins being recorded on the title and provided to the Commission; construction sequencing details for the filter basins meeting Commission requirements; and wetland buffer planting and maintenance plans being provided for areas not in permanent vegetative cover.

9. 2020-007 CSAH 92 Safety Improvements. The intersection of CSAH 92 & TH 12 currently present safety issues for motorists. Hennepin county has produced a design that will realign CSAH92 and construct an overpass and roundabout to directly connect the norther and southern portions of the roadway. The construction will result in the creation of a new stream crossing of the Unnamed creek that connects Lake Robina with Pioneer Creek, which result in floodplain impacts. This project was reviewed for Rules D, E, F, H, and I.

RULE D - STORMWATER MANAGEMENT

RULE E - EROSION AND SEDIMENT CONTROL

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RULE H - BRIDGE AND CULVERT CROSSINGS

RULE I - BUFFERS

10. **2021-001 CenterPoint Energy Gas Main.** Centerpoint energy is proposing to install a section of gas main along Highway 12. The gas main will be installed by horizontal directional drilling which is a trenchless method. The method does require some pits to be excavated to make the connection between gas main sections. Some of the pit locations fell within floodplain and wetland buffers. The project will also require some dewatering, which entails pumping water from either the excavated pits or adjacent wells to lower the ground water to facilitate connections. This project was reviewed for Rules E and I.

11. **2021-002 CSAH 92 Culvert Replacements.** Hennepin county is proposing roadway reconstruction for a section of CSAH 92 in Minnetrista and Independence. In conjunction with the roadway work multiple culverts are proposed to be replaced. The culvert replacements will be in kind and no hydraulic or hydrologic changes are proposed with this project. 1 cattle crossing structure is proposed to be removed. This project was reviewed for Rules D and E.

12. **2021-003 CSAH 50 Slope Stabilization.** Hennepin county is proposing slope stabilization for 2 segments of CSAH 50 adjacent to the South Fork Crow River. The slope stabilization will reinforce the toe of the slope within the river channel and complete soil stabilization practices on the upland slope. Culverts along CSAH 50 will also be lined in conjunction with this project. Project approval is recommended. This project was reviewed for Rules E, F, and H.

13. **2021-004 Schefers Hills.** This residential development is proposing to split a 26-acre parcel into two lots. Part of the project will be to add additional width to Pete Drive which will serve as access to the proposed parcels. Erosion and sediment control will be installed as part of this project. Project approval is recommended contingent upon Buffer strip monumentation be show on the plans and installed as part of this development. This project was reviewed for Rules E and I.

Questions have arisen regarding Watershed Water Appropriations Permits, and the impact upon these permits given the drought conditions. On a local level each water appropriations permit is required to have a condition upon which appropriation from the surface water is to halt. The condition used is typically an elevation for a basin, or a flow rate for a stream. Once this condition is met appropriation must halt.

There is also DNR guidance for impacts on a major watershed basis. Most if not all of the Pioneer-Sarah Watershed is located within the Crow Wing River watershed. When the river flow for the gauge in question falls below the Q90 rate for 120 hours, all appropriations permits within that watershed are effected and all consumptive use shall be halted. Consumptive use is defined as any use that does not return 100% of the water used to the watershed. Examples of consumptive use are, irrigation, or power generation that utilizes cooling towers.

As of writing this memo the flow in the Crow Wing River at Rockford is 65 cubic feet per second (CFS). Watershed wide appropriations would be halted when the river flow is below 40 CFS.

We currently do not have any watershed rules that cover watershed water appropriations permits. It would be difficult to track all of the minor appropriations permits and verify water elevations and local stream flow to ensure permits are followed. The amount of water that is consume for residential irrigation purposes is likely low and the overall impact is likely minimal. Relying on the Crow Wing River gauge would allow for an easy gauge for when water permit use should be suspended.

HENNEPIN COUNTY

MINNESOTA

DATE: August 13, 2021

TO: Pioneer-Sarah Creek Watershed Management Commission

FROM: Paul Stewart and Kris Guentzel; Hennepin County Department of Environment and Energy

RE: August Commission Project, Program, and Education Updates

2021 Watershed Service Agreement (KG)

Update: The Watershed Services Agreement was approved by the Commission during their May meeting and is now fully executed. An executed copy has been provided to Chair Baker.

Previous: This draft agreement provides the structure under which county staff engage private landowners and consultants to complete work in the support of shared goals and grants received by the Commission. County staff updated the agreement based on comments received in advance of the May meeting and the Commission approved the agreement during the May meeting.

Natural Resources Strategic Plan

A survey has been distributed to stakeholders and the public asking for feedback on what folks' value and wish for the county to prioritize in its natural and water resources work. You can take the survey [here](#), or by navigating to our webpage dedicated to the plan: [Updating the Natural Resources Strategic Plan | Hennepin County](#)

You can also sign up for updates here: [Hennepin County \(govdelivery.com\)](https://govdelivery.com).

Public and stakeholder outreach will continue through the end of summer. Collaboration groups will also be convened in the coming weeks for stakeholders to provide direct input on planning content.

Subwatershed Assessments

Dance Hall Creek Subwatershed Assessment Refinement (KG/PS)

Update: Field work was completed by Stantec last month. Hennepin County has been meeting with Stantec and the City of Greenfield to answer questions regarding document drafting. We are on track to have the first draft to the technical advisors panel for review. Landowner review meetings will be



scheduled for the end of August into September with Hennepin County, City of Greenfield and Stantec. Feedback will be gathered and any change to the draft will be considered. All landowners in the study area have been accommodating to meeting and field work thus far. We look forward to sharing the draft with all involved.

Previous: Hennepin County Staff along with Greenfield City Staff met with all landowners in the Dance Hall Creek Subwatershed Assessment Refinement the last weeks in June. We were able to present the project goals and gather baseline information. Main 3 takeaways are: open space and natural resources are highly valued, desire to improve the natural and built environment for the betterment of water and soil and willingness to be involved with the process. All the collected information was reported back to Stantec and will be incorporated in the results. There is a large range of tenure going back 125 years which is valuable to stitching together land use changes.

- Technical advisor meeting will happen next week where GIS work will be presented.
- Stantec will be coordinating some meeting for field verification in the next month to look at specific features and areas.
- Project is still on track for a late October completion.

Hennepin County staff are leading a project in partnership with the watershed and City of Greenfield to update the Dance Hall Creek Subwatershed Assessment to accommodate a change in future land use from agricultural to rural residential on developing and soon-to-be-developed properties north of Lake Sarah in the Dance Hall Creek Subwatershed. In addition to the consultants' scope of work, HCEE staff are also working on an outreach and engagement plan for the landowners in the study area.

Spurzem Creek Subwatershed Assessment (KG/PS)

Update: County staff are currently completing the ACPF model and have begun urban and rural modeling work using WinSLAMM and PTMApp, respectively. Staff met with Stakeholders in June and presented work so far and gathered feedback on future deliverables. Over the coming weeks modeling will be completed and report drafting will begin. Final ground-truthing will also occur.

Previous: This subwatershed assessment will identify cost-effective conservation practices east of Lake Independence for areas draining into Spurzem Creek (Cities of Corcoran, Loretto, and Medina). County

Completed two rounds of field work in late 2020 and early 2021 to determine common farming practices in the area and to identify conservation practice locations. Staff are also utilizing modeling technologies to identify and assess the benefit of conservation work.

Lake Rebecca Subwatershed Assessment (KG/PS)

Update: The RFP will be re-posted later this month. The selection committee should expect to receive materials in early October and will review and score those proposals and can expect to meet to choose a contractor to complete the work later in October.

Previous: This subwatershed assessment will identify cost-effective conservation practices in areas draining to Lake Rebecca in the Cities of Independence and Greenfield. An original RFP was distributed in early 2021 that considered groundwater monitoring and a habitat management plan but has since been re-written and re-posted due to budget limitations.

Projects & Outreach

Lake Independence/Remaining Baker Park Ravine CWF Funds

a. 5375 Pete Drive, Independence: (KG)

Update: No update. The concern around tree removal appears to have led to an impasse. This project will be removed from the project list.

Previous: Landowners expressed concern with the need to remove two mature oak trees in order to complete the project. Upon consultation with design engineer, there is no way to avoid removing these trees. Landowners are considering next steps.

Designs delivered to the landowners in January of 2021 for review. Shoreline shows evidence of erosion due to ice push and requires engineered stabilization to achieve stable grade. Landowner is also passionate about native plants on property and has requested consultation around planting plan/ability to transplant existing plant material on the property in 2021.

b. 2772 Becker Road, Independence (PS)

Update: Landowner meeting regarding final design and alignment has been completed and both have accepted the plan and alignment. Hennepin County will be working with landowners in the next few weeks to get contractor bids on the project. The City of Independence is looking into the culvert under Becker Road and will provide some direction on the condition any potential work. Hennepin County is working on an O&M draft to provide the City of Independence and possibilities of a shared O&M. Landowner has asked to reevaluate the cost share percentage once the contractor bids come in.

Previous: Waiting for the city staff to provide comment on O&M and culvert under Becker Road. Landowner meeting will be scheduled this month for design final approval and start the contracting process. Landowners are concerned about their capability to unplug the pipe if it were to become blocked. They have reached out to the city for supporting in the O&M. And also asked for the commission to encourage a mutual O&M with the city.

Final designs were reviewed by Hennepin County and landowner and have been included with this staff report. Question have been fielded to the engineer and plans have been sent to the City of Independence for review and discussion. Waiting for the city staff to provide comment. Survey work was requested by engineer to gather more detail about the bank. This was completed during the week of March 29th and Engineer is working on a concept plan. Survey is complete, and data sent in to engineering for pre-construction plans and estimate. Outreach work will continue into 2021 regarding HR 68 and the waterway. Differential survey was completed of the water course, and preliminary plans are being drafted. HR 65 Page 68 in Lake Sarah and Lake Independence Stormwater Retrofit Analysis. Evaluation gullying and high water in wetland. Multi landowner involvement to visually inspect private ditch running from Becker Road to Lake Independence. Landowners involved had given verbal authorization for inspection once site visit restrictions are lifted. Site visit was completed on May 1, 2020. Significant erosion to the banks of the unnamed stream, sediment collection in HR 65 wetland. Landowner and Hennepin County will be working on a cost-share project for bank stabilization. We will be seeking resource assistance from the city of Independence and PSCWMO. We have had contact with all landowners surrounding HR 65 except home on Providence Curve and the Providence Homeowners Association. First contact letters will be sent out in June if needed. Upstream from 2772 Becker homeowners will be contacted though a

letter (addresses 2815-3050 Becker Road) First contact letters will be sent out in June if needed. See photos of unnamed stream and drainage boundary in May Staff Report.

c. 2000 Block Independence Road, Independence (KG)

Update: Engineer signed off on wetland embankment design. Next steps will be to begin contracting with landowner and the wetland permitting process.

Previous: Started pre-construction on an agriculture drained wetland restoration in partnership with Minnesota Land Trust following the closing of a conservation easement on this property over the winter. Once restoration is complete the .75 acre wetland will filter approximately 9 acres of agriculture grass/hay field. Additional habitat restoration and enhancement will occur over the next several years on these 4 acres of maple/basswood forest and grassland adjacent to Pioneer Creek at the outlet of Lake Independence.

d. Maple St, Independence (recently purchased, undeveloped property on Lake Independence)

Update: NRCS engineer declined to work on this project citing lack of confidence that the shoreline could be stabilized. DNR expressed interest in shoreline remaining as-is as it provides fish habitat. Given uncertainty around appropriate engineering solution to achieve conservation benefit, we won't be pursuing this project.

Previous: Working with NRCS and DNR still ongoing to find solution and better ensure success during permitting. Design will require significant amount of rock riprap to address existing erosion and protect against ice heaving. Significant evidence of sediment erosion (primarily by waves) exists along shore.

Lake Rebecca/Zuhrah Shrine Horsemen (ZSH) (4505 CR 92, Independence) BMPs

Update: Zuhrah, NRCS and Hennepin County met on sight to review grazing management plan and look at the wetland. A grazing plan will include new fencing, soil testing, seeding, water access and rotation schedule. Zuhrah is working directly with NRCS on wetland determinations. Hennepin County is providing technical support on drain tile repairs.

Previous: Landowner looking for contractors to start some smaller repairs. Surveying for smaller BMP projects will start this month. Work to restore drainage continues. Paul recently met with adjacent landowners to discuss drainage issues and opportunities for pipe repair. Landowner needed time to look through old records and work with FSA on agricultural land impact. We will be continuing the conversation with all landowners.

Staff have continued to consult with ZSH on wetland permitting related to a desire to shift the location of a crossing between the barn and pasture areas to the west. In addition, staff have continued to make efforts to initiate contact with the landowners to the north, who will be critical to any projects to manage stormwater from the ZSH property. Meeting onsite with NRCS to look at pasture management plan and ranch facilities efficiency improvements. Discussed the impact of restored drainage and the long-term stability of the ranch. Plans are be drafted for potential 2021 implementation.

Drain tile inspections are taking place and repairs will be ongoing as issues are found. Working with the City of Independence Water Resource Specialist to ensure all work exceeds WAC. A scope of work and plan will be developed for the main tile repair that outlets into TRPD to ensure any repair made will allow for future work mitigating nutrients and sediments. Working with Zuhrah staff to address drainage and water quality work with Hennepin County providing technical services. We will be developing a refined scope of work that will utilize NRCS practices to manage water quality improvement to manage agricultural storm water runoff. Please see September 2020 meeting handout shared last month.

Other Cost Share BMP Projects in Progress

a. 4635 Lake Sarah Road, Independence (KG)

Update: Rock Crossing was completed at the end of May. In June staff completed a final inspection and took an as-built survey. Punch list items should be completed in the coming weeks. Work on this project is in process and expected to be complete by the end of May.

Previous: This project will stabilize erosion at the crossing of an intermittent stream at a location that was damaged during habitat restoration work on this property in 2019. The proposed rock crossing will prevent an actively eroding area from migrating upstream, thereby delivering additional sediment and nutrients into the wetland north of the property. This project will benefit the water quality entering Lake Rebecca.

b. 1215 Copeland Road, Independence: (PS)

Update: Project is at engineer's office for preliminary design.

Previous: Survey is complete, and data sent in to engineering for pre-construction plans and estimate. Outreach work will continue into 2021 for upstream work. NRCS will be partnering with the landowner LO and County to do a BMP analysis for the entire 63-acre parcel.

Landowner Outreach Associated with Dance Hall Creek Study

New: See above Dance Hall Creek Subwatershed Assessment Refinement (KG/PS)

Landowner Outreach Associated with Lake Rebecca Study

New: County staff drafting outreach letters to landowners to introduce them to the assessment and project work.

Landowner Outreach General

New: Hennepin County Environment and Energy is exploring programs that could help interested farmers and rural landowners preserve their land and land use. Opportunities being considered include rural and agricultural easements and protection of Prime Farmland, managing local flooding, stewardship planning for soil and water quality benefits, building better partnership and connections with farming resource organizations, and improving community connections to local farmers.

The county is seeking input from farmers to help us develop effective programs that reflect the needs and goals of the community, your legacy, and your future.

A mailer was sent out last week to over 300 agricultural properties in Western Hennepin County. See Flyer attached below.

New: MN Buffer Law inspections will start at the end of August and run through September. Properties were selected at random for an in-field inspection. Letters were sent late last month and are taking a Landowner inclusive approach to be more transparent about the inspection. We are using these interactions as opportunities to learn about other issues regarding soil and water that Hennepin County or our partners can address.

Evaluating and Assessing Lakeshore Homeowner Needs and Programming

a. LICA Lakeshore Restoration Inquiries (KG/PS)

Update: Ellen Sones has been reaching out to landowners and has engaged and met with four landowners so far. Each has experienced some level of erosion, either from one or a combination of a lack of vegetation establishment, erosion from wave action, and ice heaving. County staff are engaging BWSR to see if we could utilize remaining watershed-based implementation funds from the previous biennium, which was allocated to a project that wasn't installed. If we are able to utilize those funds, installation must occur in 2021. County staff are meeting next week to discuss next steps and whether to engage an engineer to move forward with designs.

Previous: Hennepin County staff provided LICA and its members with a webinar on lakeshore restorations during late Fall 2020. Since that time, LICA has compiled a list of landowners interested in pursuing restoration on their lakeshores. Pat Wulff recently provided those names and addresses to County staff. The County is working internally to identify staff and resources to move forward with reviewing those sites and providing those homeowners with next steps.

b. 3045 Lakeshore Ave Medina

New: Landowner requested evaluation for shoreline stabilization.

New Inquiries and Other Opportunities

a. 2015 Budd Street, Independence: (PS)

Update: No Update

Previous: Hennepin County met with Maple Plain staff to info share about the current state for the grass waterway and ravine. Working towards another meeting in fall to start looking at drainage and stormwater data and see if there are opportunities to help regulate flow.

Hennepin County has reached out the City staff in Maple Plain to schedule time to go over this project now that storm drain work is complete at the park. Given other priorities and staff capacity constraints, this project opportunity will be on hold until after the 2021 field season. In order to proceed, staff need to understand recent stormwater improvements in the City of Maple Plain.

Landowner reported that water levels and velocity in the past year have caused out-of-bank erosion in rock-armored areas and gulying in grass waterway. Armoring and grassed waterway were installed as a cost share project in 2004. Site visit completed on May 1, 2020 revealed significant channel erosion in the grassed waterway. Volume and debris coming down the gully cause backups at spillway. Flow changes course during heavy volume events, flowing overland through a farm field. Severe cutting in the grass waterway has resulted in the flow path changing course – now bypasses sediment pond. The water velocity has also washed out the rock crossing. See photos of unnamed gully and drainage boundary in May 2020 Staff Report.

This gully is the primary drainage between Maple Plain/Northside Park and DNR Public Water Wetland 393W and Pioneer Creek. Landowner has expressed concern about drainage work that

b. Unassigned address, Marsh Land Properties LLC PID 2411824320015: (PS)

Update. No Update

Previous: Hennepin County met with Maple Plain to share information on the OM concern. Maple Plain will look into this. has reached out to city staff in Maple Plain to schedule time to go over operation and maintenance concerns and planning for 2022.

Hennepin County has reached out to city staff in Maple Plain to schedule time to go over operation and maintenance concerns and planning for 2022. Will work with Maple Plain City Staff early 2021. Landowner inquired about Proto Lab parking lot addition storm drainage using stormwater pond on property, who holds the OM and how to get help for erosion. See map erosion areas highlighted in red in May Staff Report

c. 5590 Lake Sarah Height Dr, Independence:

No Update.

Previous: JB Gully, HR67 & HR68 page 69 Lake Sarah and Lake Independence Stormwater Retrofit Analysis. Site visit on May 1, 2020 to look at road wash-out and unnamed stream (JB gully). Identified that field crossing was cleaned at HR 67 and 68 and opened up flow. Due to site constraints of the unnamed stream restoration, will need more analysis. HR67 and HR68 show potential for restoration and flow control structure.

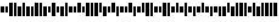
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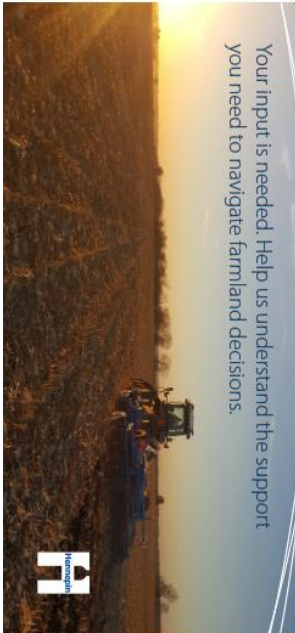
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8

Help us preserve Hennepin County's farmland and rural culture



Hennepin County is facing significant loss of farmland and rural landscapes in the coming decade. According to the 2017 Agricultural Census for Hennepin County, 33 percent of the county's agricultural acres were lost between 2012 and 2017. The pressures on farmland and rural landscapes will likely continue, resulting in a further loss of these lands.

Preserving farmland is important to protecting the vibrant local and regional economy that agricultural activity supports, improving access to nutritious, locally produced food, connecting habitats, improving water quality, and supporting healthy ecosystems.

Hennepin County Environment and Energy is exploring programs that could help interested farmers and rural landowners preserve their land and land use. Opportunities being considered include rural and agricultural easements and protection of Prime Farmland, managing local flooding, stewardship planning for soil and water quality benefits, building better partnership and connections with farming resource organizations, and improving community connections to local farmers.

The county is seeking input from farmers to help us develop effective programs that reflect the needs and goals of the community, your legacy, and your future.

Opportunities to get involved

Your valuable input will directly influence the development of programs and how these programs could work to protect rural and agricultural legacy and sustainability in Hennepin County.

Provide your input in the following ways:

- Complete up to three short surveys
- Participate in a focus group that will meet occasionally over the next six to twelve months and/or
- Talk to county staff individually

You can indicate on the enclosed postcard your level of interest. You will be able to choose to engage more or less throughout the process if your level of interest changes. Any input is helpful, and we look forward to learning and listening.



Let us know what you think

Let us know if you are interested in providing feedback and how you wish to participate by completing and returning the tear out postcard or by contacting

Paul Stewart, Rural Conservationist and Agriculture, at paul.stewart@hennepinus or 612-272-1888.

The information you provide will only be used for input on possible agricultural preservation programming. The county doesn't share any personal information for commercial purposes.

HENNEPIN COUNTY

Agricultural preservation opportunity assessment

I am interested in learning more and providing input on program development.

Name

What do you farm?

Email

Phone number

Address

City

State

Zip code

How would you like to participate in providing feedback (select all that apply):

☐ Completing a short survey

☐ Participating in a focus group

☐ Talking with county natural resources staff