

Agenda

Vermillion River Watershed Joint Powers Board Meeting

December 2, 2021, 1 p.m., in-person and teleconference via Zoom

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- 2. Roll Call
- Audience Comments on Items Not on the Agenda (please limit audience comments to five minutes)

4.	Consent Agenda	Action	
	a. Approval of Agenda		Page 1
	b. Approval of Minutes from the October 28, 2021, Meeting		Page 3
	c. Acceptance of Treasurer's Report		Page 7
	 d. Approval of dates for 2022 Vermillion River Watershed Joint Powers Board (VRWJPB) meetings 		Page 8
5.	Approval of Expenses	Action	Page 10
6.	Business Items		
	a. Presentation of Riparian Landowner Survey Report	Information	Page 11
	 Adoption of the Vermillion River Watershed Joint Powers Organization 2022 Final Budget and Watershed Management Tax District Levy 	Action	Page 13
	c. Authorize Execution of Joint Powers Agreement with Dakota County for the Wetland Health Evaluation Program	Action	Page 24
	d. Model Ordinance Update for Implementation of the Vermillion River Watershed Joint Powers Organization Standards	Information	Page 30
7.	Staff Reports		
8.	Adjourn	Action	

Please note, the December 2, 2021 Vermillion River Watershed Joint Powers Board meeting will take place **in-person** in Conference Room A at the Extension and Conservation Center, 4100 220th Street West, Farmington Minnesota **and via teleconference** on the web-based application, Zoom. Due to the increase in cases of COVID 19 in our area, Dakota County requires masks to be worn inside all Dakota County facilities.



Commissioner Wolf will be attending the meeting via interactive technology from his home at 19225 Fox Field Dr., Prior Lake, MN. Commissioner Wolf intends to continue attendance via interactive technology while masks are required to be worn at the regular meeting location. Notice will be provided of his location for future meetings.

Join Zoom Meeting

https://dakotacountymn.zoom.us/j/99678526260?pwd=L2hCdWxBNGtZQjh1WXVLUTIrTXIYZz09

Meeting ID: 996 7852 6260

Passcode: 260262 One tap mobile

+16513728299,,99678526260#,,,,*260262# US (Minnesota)

Dial by your location

+1 651 372 8299 US (Minnesota)

Meeting ID: 996 7852 6260

Passcode: 260262

Find your local number: https://dakotacountymn.zoom.us/u/aZOBV7W48

Other Information

Next Meeting Date: **January 27, 2022,** at 1 p.m. You will be notified if the meeting is cancelled due to an anticipated lack of quorum.



Meeting Minutes

Vermillion River Watershed Joint Powers Board Meeting
October 28, 2021, 1 p.m., In-person and Teleconference using Zoom

Board Members in Attendance

Dakota County Commissioner Mike Slavik, Chair Dakota County Commissioner Mary Hamann-Roland, Secretary/ Treasurer Scott County Commissioner Tom Wolf, Vice Chair via teleconference

Others in Attendance

Mark Zabel, Dakota County, VRWJPO Administrator
Melissa Bokman-Ermer, Scott County, Watershed Co-administrator
Travis Thiel, Dakota County, VRWJPO Senior Watershed Specialist
Mark Ryan, Dakota County, VRWJPO Watershed Engineer
Brita Moore-Kutz, Dakota County, VRWJPO Communications and Outreach Specialist
Helen Brosnahan, Dakota County, Assistant County Attorney

1. Call to Order

Meeting was called to order at 1 p.m.

2. Roll Call

Commissioners Slavik, Hamann-Roland, and Wolf were in attendance.

3. Audience Comments on Items Not on the Agenda

There were no audience comments.

4. Approval of Consent Agenda

- a. Approval of Agenda
- b. Approval of Minutes from the September 23, 2021, meeting
- c. Acceptance of Treasurer's Report

<u>Res. No. VRW 21-24:</u> Motion by Commissioner Hamann-Roland, Second by Commissioner Wolf and passed on a 3-0 vote to approve the consent agenda.

5. Approval of Expenses

Mark Zabel presented the current expenses for approval as shown on item 5.

Commissioners Slavik and Hamann-Roland Inquired about the budgeted amounts in the Treasurer's Report and expected expenses coming to the end of the year. Staff provided information about potential budget impacts through the end of the year.

<u>Res. No. VRW 21-25:</u> Motion by Commissioner Wolf, Second by Commissioner Hamann-Roland and passed on a 3-0 vote to approve the expenses as presented.

Business Items

<u>Res. No. VRW 21-26:</u> Motion by Commissioner Hamann-Roland, Second by Commissioner Wolf and passed on a 3-0 vote to amend the agenda to remove item 6a.

6a. Presentation of Riparian landowner Survey Report

Amit Pradhananga was unable to present. The presentation was deferred to the next meeting of the Vermillion River Watershed Joint Powers Board.

6b. Presentation of a Draft Format for 5-year Capital Improvement Program Planning

Mark Ryan presented a table summarizing a draft 5-year capital improvement program plan. The current draft of the plan includes projects identified with actual potential for implementation. The plan is organized by subwatershed matching the approach for implementation presented in the 2016-2025 Vermillion River Watershed Management Plan. Projects listed in the plan show costs for completion in 2021. Those identified for 2022 have had grant applications submitted and funding pending. Projects beyond 2022 are more speculative but are included for planning purposes. A discussion of some projects and potential future project funding ensued.

Staff Reports

Melissa Bokman-Ermer reported that she had drafted a potential request for an extension of the 2019 WBIF grant. Additional time is needed for developing a potential project with a landowner and to identify additional funding for the Imminent Health Septics project. Whether a formal request for an extension will be submitted will be determined when more information is available.

Brita Moore-Kutz reported that the month has been filled with education and training as well as some community engagement. Trainings included the Minnesota Water Resources Conference and the BWSR Academy She also attended a training on the "Watershed Game" which is a board game produced by the Minnesota Sea Grant Program based out of Duluth MN. Dakota County was selected as a site for the "We Are Water Minnesota" Exhibit which will be hosted at the Hastings Public Library and at the Lebanon Hills Regional Park Visitor Center. Brita will collaborate with Paula Liepold and other Dakota County staff on supporting the outreach with the exhibit. Brita attended the "Confluence of Stewards" event hosted by Freshwater, tabling for the VRWJPO and in support of their Minnesota Water Stewards Program. Brita also tabled at the City of Lakeville Public Works "Imagine a Day Without Water" event. Brita spoke to the Farmington Rotary Club about the watershed, what they could do to protect it, and how they might engage in water-oriented events. Commissioner Hamann-Roland suggested possibly coordinating something with the Apple Valley Chamber of Commerce Home and Garden Show. Brita indicated she would be happy to explore that opportunity.

Travis Thiel reported on the Erickson Park Project in Apple Valley. The project is currently under construction and substantially complete. This was a flood retention area with an existing pollinator garden. Commissioner Hamann-Roland asked if there was any special recognition for projects like this. This is a site where the VRWJPO may put up an interpretive sign, which isn't exactly a celebration, but conveys information about the project and its purpose.

Mark Zabel updated the VRWJPB on the reallocation of funds within the Draft 2022 VRWJPO Budget. The transfers do not affect the overall expenses in the budget or the proposed levy request. Mark Zabel also updated the VRWJPB on the WBIF funds allocated to the Vermillion Rive Watershed and how the allocations are likely to proceed in the future. Commissioner Slavik would like to see a greater level of trust for Local Governmental Units on the part of State Agencies in these grant funded efforts.

Commissioner Slavik requested staff investigate holding the December 2, 2021 meeting at a location other than a Dakota County Facility as an option. The Elko-New Market Public Library was suggested as a proposed meeting location. This is a request as an option but does not preclude continuing with the optional teleconference approach.

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Motion by Commissioner Hamann-Roland, Second by Commissioner Wolf and passed on a 3-0 vote to adjourn the meeting at 1:52 p.m.

Next Meeting Date: Thursday, December 2, 2021, at 1 p.m. in Conference Room A at the Dakota County Extension and Conservation Center, 4100 220th Street West, Farmington, MN.

Mark Zabel Administrator for the Vermillion Rive	er Watershed Joint Powers Organi	ization
Attest		
Commissioner Hamann-Roland	Secretary/ Treasurer	 Date



2021 Vermillion River Watershed Joint Powers Organization Treasurer's Report October 2021 - Vermillion River Watershed Joint Powers Board Meeting

		Budget Amounts	Ex	penses to Date	<u>Ex</u>	penses Pending	<u>Ac</u>	count Balance	Budget Funding Sources
I.	Administration & Operations (217002-0000)	\$ 240,500.00	\$	130,633.47	\$	12,020.78	\$	97,845.75	Scott County Levy
II.	Research & Planning (217002-0130)	\$ 65,600.00	\$	34,868.84	\$	-	\$	30,731.16	Expected 2019 Carryover (Fund Balance) \$ 336,000.00 Special Use Permit \$ 2,500.00
III.	Monitoring & Assessment (217002-0230)	\$ 157,400.00	\$	44,773.18	\$	18,178.84	\$	94,447.98	CWF Grant (BWSR) \$ 370,000.00 2019-2021 CWF Grant 1W1P (BWSR) \$ 218,100.00
IV.	Public Communications & Outreach (217002-0330)	\$ 192,450.00	\$	117,246.64	\$	9,967.54	\$	65,235.82	2020-2023 CWF Grant WBIF (BWSR) \$ 243,600.00
٧.	Regulation (217002-0530)	\$ 65,900.00	\$	27,766.15	\$	1,995.83	\$	36,138.02	Met Council Grant \$ - CIP Reserve \$ 205,900.00 CIP Reserve Grant Match \$ 101,800.00
VI.	Coordination & Collaboration (217002-0531)	\$ 45,600.00	\$	15,107.19	\$	612.48	\$	29,880.33	Investment Earnings \$ 20,000.00
VII.	Feasibilty/Preliminary Studies (217002-0631)	\$ 240,000.00	\$	91,094.69	\$	9,520.51	\$	139,384.80	Total \$ 2,497,900.00
VIII.	Capital Improvement Projects (217092-0130)	\$ 296,300.00	\$	53,356.40	\$	13,562.12	\$	229,381.48	
VIX.	CWF Grant - South Branch (217002-0838)	\$ -	\$	39.85	\$	-	\$	(39.85)	
X.	CWF Grant - Erickson Park St (217002-0841)	\$ 164,300.00	\$	-	\$	164,250.00	\$	50.00	
XI.	CWF Grant - Aronson Park Storm (217002-0843)	\$ 10,000.00	\$	10,000.00	\$	-	\$	-	
XII.	CWF Grant - Webster Wetland (217002-0844)	\$ 67,000.00	\$	64,585.98	\$	-	\$	2,414.02	
XIII.	CWF Grant - Technical Assistance (217002-0845)	\$ 19,500.00	\$	-	\$	-	\$	19,500.00	
XIV.	CWF Grant - Imminet Health T (217002-0846)	\$ 8,000.00	\$	-	\$	-	\$	8,000.00	
XV.	CPL Grant - South Creek at Hamburg (217002-0847)	\$ -	\$	1,607.29	\$	-	\$	(1,607.29)	
XVI.	FY2019 - Watershed Funding Grant (217002-0848)	\$ 23,700.00	\$	3,795.76	\$	2,051.11	\$	17,853.13	
XXXIII.	CWF Grant - Middle Creak Restoration (217002-0852)	\$ 420,000.00	\$	423,098.68	\$	-	\$	(3,098.68)	
XXXIV	Irrigation and Audit (217002-0431)	\$ 10,000.00	\$	6,687.50	\$	4,000.00	\$	(687.50)	
XXXV.	WBIF Grant (BWSR) 2020-2023 North Creek Stabilization (217002-0853)	\$ 187,500.00	\$	-	\$	-	\$	187,500.00	
XXXVI	WBIF Grant 2020-2023 Farmington Direct Drainage (217002-0854)	\$ 16,630.00	\$	-	\$	-	\$	16,630.00	
XXXVI	. WBIF Grant (BWSR) 2020-2023 Hastings Direct Drainage	\$ 16,630.00	\$	-	\$	-	\$	16,630.00	
XXXVI	(217002-0855) I. WBIF Grant (BWSR) 2020-2023 Ravenna Basins Restoration	\$ 35,500.00	\$	-	\$	-	\$	35,500.00	
XXXIV	(217002-0856) WBIF Grant (BWSR) 2020-2023 Rosemount Anti-Icing (217002-0857)	\$ 15,000.00	\$	-	\$	-	\$	15,000.00	
	VRW JPO Revised Budget Expense TOTAL	\$ 2,297,510.00	\$	1,024,661.62	\$	236,159.21	\$	1,036,689.17	

4d. Approval of Dates for 2022 Vermillion River Watershed Joint Powers Board Meetings

Meeting Date: 12/2/2021
Item Type: Consent-Action
Contact: Mark Zabel
Telephone: 952-891-7011
Prepared by: Mark Zabel

Reviewed by: N/A



PURPOSE/ACTION REQUESTED

Approval of dates for 2022 Vermillion River Watershed Joint Powers Board meetings

SUMMARY

The Vermillion River Watershed Joint Powers Board meetings are held on the fourth Thursday of every month (except November and December, when changes are made to accommodate holidays) at 1 p.m. at the Dakota County Extension and Conservation Center. It is proposed that the 2022 VRWJPB meetings continue on the same basis, according to the following schedule:

- January 27
- February 24
- March 24
- April 28
- May 26
- June 23
- July 28
- August 25
- September 22
- October 27
- December 1

EXPLANATION OF FISCAL/FTE IMPACT

None

- ;

RESOLUTION

4d. Approval of Dates for 2022 Vermillion River Watershed Joint Powers Board Meetings

WHEREAS, the Vermillion River Watershed Joint Powers Board is required by its Joint Powers Agreement to hold regular meetings, at least annually; and

WHEREAS, regularly scheduled meetings of the Vermillion River Watershed Joint Powers Board are required to complete its business in a timely and responsible manner.

NOW, THEREFORE, BE IT RESOLVED, that in calendar year 2022, the Vermillion River Watershed Joint Powers Board will meet on the fourth Thursday of the month (except in November and December) at 1 p.m., according to the following schedule:

- January 27
- February 24
- March 24
- April 28
- May 26
- June 23
- July 28
- August 25
- September 22
- October 27
- December 1



Vermillion River Watershed Joint Powers Organization

4100 220th St. W., Suite 103, Farmington, MN 55024

Date: December 2, 2021 Agenda Item 5

To: Vermillion River Watershed Joint Powers Board

From: Staff

Subject: Joint Powers Organization Expenses

Expenses from the invoices submitted between September 13, 2021 and October 12, 2021 totalled \$480,845.31

The invoices submitted between October 13, 2021 and November 12, 2021 are listed below:

Invoice	<u>Vendor</u>		<u>Amount</u>			
Oct 2021	Dakota County Staff	\$	33,147.38			
Sept 2021	September - Legal Fees	\$	1,199.36			
IN27538	Scott County	\$	1,276.50			
1844323	Stantec	\$	479.00			
21-108001-14c	144Design	\$	95.00			
3137	Dakota County Soil and Water Conservation District	\$	28,020.04			
2021-175	Scott County Soil and Water Conservation District	\$	3,673.75			
10/5/2021	Boulder Village Townhomes	\$	3,500.00			
10/30/2021	Rock Island Townhome Assn	\$	500.00			
9/30/2021	Ace - saw and PVC	\$	18.18			
8/24/1920	City of Apple Valley	\$	164,250.00			
Total expense as	Total expense as approved on December 2, 2021 \$					

Action Requested: Approve all above expenses as presented on December 2, 2021

6a. Presentation of the University of Minnesota Riparian Landowner Survey Report

Meeting Date: 12/2/2021
Item Type: Information
Contact: Mark Zabel
Telephone: 952-891-7011
Prepared by: Mark Zabel



PURPOSE/ACTION REQUESTED

Presentation of the University of Minnesota Riparian Landowner Survey Report

SUMMARY

The Vermillion River Watershed Joint Powers Organization (VRWJPO) contracted with the University of Minnesota (UM) to complete a riparian landowner survey in 2010. The purpose of the survey was to evaluate attitudes and behaviors associated with aquatic resources and their conservation. The VRWJPO contracted with the UM in 2020 to repeat the survey to assess changes that may have occurred over the 10 years between surveys and to obtain information that the VRWJPO can apply as we engage people in implementing our conservation mission.

Amit Pradhananga, Research Associate at the UM Department of Forest Resources - Center for Changing Landscapes, and team leader on this project will present the survey and its findings.

Executive Summary

This report describes a social science-based assessment of landowner conservation behavior in the Vermillion River Watershed of present-day Minnesota. The study was conducted by the Center for Changing Landscapes, University of Minnesota (UMN), in collaboration with the Vermillion River Watershed Joint Powers Organization (VRWJPO). The purpose of this study was to understand landowner values, attitudes, and behaviors associated with water resources and conservation practices. Study findings will assist water resource professionals in land use planning and evaluating program outcomes. Data were collected through a self-administered mail survey of a random sample of 1000 landowners who live within the Vermillion River Watershed in present-day Minnesota. Overall, 253 landowners completed and returned the survey for a response rate of 24.5%.

Key Findings

- Landowners surveyed place a high value on clean water and view themselves as
 environmental stewards. Most landowners also feel a personal obligation to do whatever
 they can to prevent water pollution and use conservation practices.
- Most landowners draw links between water pollution and its impacts on public health and quality of life, and believe that water resources in Minnesota need better protection. Most landowners also agree that conservation practices protect aquatic life and contribute to quality of life in their community.
- Landowners believe that streamside buffers help to improve water quality but were unsure whether buffers reduce land values.
- Landowners feel a sense of personal as well as collective responsibility to protect water and believe that it is important to protect and restore Minnesota's waters for various values and uses.
- On average, the most trusted individuals or organizations were family, the county's Soil and Water Conservation District, MN Department of Natural Resources, local watershed management organization, and a University of Minnesota Extension agronomist/ag advisor.
- The most widely used conservation practices among landowners were minimizing use of fertilizers/pesticides on lawns and gardens, pollinator friendly plantings, and native plants or shrubs in their yards.
- Only half of the landowners surveyed feel obligated to engage in civic actions (e.g., work with other community members to protect the environment or talk to others about conservation practices). Less than half of the landowners surveyed intend to take civic actions to protect water resources.
- A comparison of 2011 and 2021 respondents indicates that landowners' engagement in civic actions has increased. However, levels of engagement remain generally low.
- Overall, compared with 2011 landowners, those surveyed in 2021 place more responsibility on landowners and local government for water quality protection.
- Compared with 2011 landowners, those surveyed in 2021 agree to greater extent that the effects of water pollution on public health are worse than we realize.

6b. Adoption of the Vermillion River Watershed Joint Powers Organization 2022 Final Budget and Watershed Management Tax District Levy

Meeting Date: 12/2/2021
Item Type: Regular-Action
Contact: Mark Zabel
Telephone: 952-891-7011
Prepared by: Mark Zabel

Reviewed by: N/A N/A



PURPOSE/ACTION REQUESTED

 Adoption of the Vermillion River Watershed Joint Powers Organization (VRWJPO) 2022 Final Budget and Watershed Management Tax District Levy

SUMMARY

The proposed VRWJPO 2022 Final Budget (Attachment A) is \$1,942,600 including Watershed Management Tax District levy, cash reserves, and Clean Water Fund Watershed Based Implementation Funding grant. The proposed VRWJPO 2022 Final Budget recommends a Watershed Management Tax District Levy of \$1,000,000; \$32,500 in the Scott County portion of the watershed and \$967,500 in the Dakota County portion of the watershed. This amount represents no change from the overall Watershed Management Tax District levy compared to 2021. The draft budget reflects recommendations from VRWJPO staff and partners and items from the implementation section of the Watershed Plan.

Supporting Documents:

Previous Board Action(s):

Attachment A: Draft VRWJPO 2022 Budget

Attachment B: Vermillion River Watershed Tax District Estimated 2022 Taxes DC

Attachment C: 2022 Vermillion WMO Impact SC

RESOLUTION

6b. Adopt the Vermillion River Watershed Joint Powers Organization 2022 Final Budget and Watershed Management Tax District Levy

WHEREAS, the Vermillion River Watershed Joint Powers Organization requires a budget and the subsequent levy to implement the programs and projects described in its Watershed Management Plan; and

WHEREAS, the Vermillion River Watershed Planning Commission has reviewed and recommended the adoption of the proposed VRWJPO 2022 Final Budget and Watershed Management Tax District Levy, and

WHEREAS, the Vermillion River Watershed Joint Powers Board has reviewed and discussed the VRWJPO 2022 Final Budget and Vermillion River Watershed Management Tax District Levy.

NOW, THEREFORE, BE IT RESOLVED, that the Vermillion River Watershed Joint Powers Board hereby adopts the VRWJPO 2022 Final Budget totaling \$1,942,600 and recommends a Vermillion River Watershed Management Tax District Levy of \$1,000,000 (\$32,500 in the Scott County portion of the watershed and \$967,500 in the Dakota County portion of the watershed).

Catagory		Pudget Itoms	2022 Draft Budget	Budget %	2021 Revised Budget	Budget %
<u>Category</u>		Budget Items	<u>Amount</u>	of Total	<u>Amount</u>	of Total
EXPENSES						
	1	Dakota County VRW Staff	\$180,500	9.3%	\$180,500	7.2%
Administration and Operations	2	Scott County VRW Staff	\$15,000	0.8%	\$15,000	0.6%
-2170020000	3	Other Dakota County Staff Time	\$12,000	0.6%	\$12,000	0.5%
	4	Legal Support	\$25,000	1.3%	\$25,000	1.0%
	5	Miscellaneous Expenses (per diems, mileage, postage, etc.)	\$6,000	0.3%	\$6,000	0.2%
	6	Training, Conferences, and Certifications	\$2,000	0.1%	\$2,000	0.1%
		Subtotal Administrative	\$240,500	12.4%	\$240,500	9.6%
Research and Planning	1	Dakota SWCD Incentive Program Policy Assistance	\$1,600	0.1%	\$1,600	0.1%
-2170020130	2	Scott County Staff	\$2,000	0.1%	\$2,000	0.1%
	3	VRW Staff	\$12,000	0.6%	\$12,000	0.5%
	4	Conservation Attitudes and Behaviors Survey	\$0	0.0%	\$50,000	
		Subtotal Research and Planning	\$15,600	0.8%	\$65,600	2.6%
	1	Vermillion River Monitoring Network in Dakota Co.				
Monitoring and Assessment	1a	Staff Time for Sample Collection, Equipment Installation, Maintenance, Downloading	\$39,000	2.0%	\$39,000	1.6%
-2170020230	1b	Data analysis, database management, data reporting, FLUX modeling, reporting	\$17,000	0.9%	\$17,000	0.7%
	1c	Water Quality Sample Analysis and QA/QC samples	\$19,000	1.0%	\$19,000	0.8%
	1d	Equipment and Supplies	\$8,000	0.4%	\$8,000	0.3%
	2	Vermillion River Monitoring Network in Scott Co	\$9,800	0.5%	\$9,800	0.4%
	3	USGS Cost Share for Blaine Ave. Station	\$8,900	0.5%	\$8,900	0.4%
	4	DNR Flow Gaging Assistance	\$9,700	0.5%	\$9,700	0.4%
	5a	Biological and Habitat Assessments	\$7,000	0.4%	\$7,000	0.3%
	5b	Electrofishing	\$16,000	0.8%	\$16,000	0.6%

<u>Category</u>		Budget Items	2022 <u>Draft Budget</u> <u>Amount</u>	Budget % of Total	2021 Revised Budget Amount	Budget % of Total
	6	Monitoring Programs Review and Evaluation	\$15,000	0.8%	\$15,000	0.6%
	7	General GIS support (Dakota SWCD)	\$5,000	0.3%	\$5,000	0.2%
	8	Nitrate Treatment Practice Sampling	\$1,000	0.1%	\$1,000	0.0%
	9	Iron Enhanced Sand Filter Performance Sampling	\$2,000	0.1%	\$2,000	0.1%
		Subtotal Monitoring and Data Analysis	\$157,400	8.1%	\$157,400	6.3%
Public Communications and	1	Communication and Outreach Staff	\$100,000	5.1%	\$110,000	4.4%
Outreach	2	Vermillion River Watch Program	\$6,000	0.3%	\$6,000	0.2%
-2170020	330 3	Vermillion River Stewards	\$0	0.0%	\$20,000	0.8%
	4	Scott County Outreach Efforts	\$2,250	0.1%	\$2,050	0.1%
	5	Vermillion River Watershed Projects Signage and Map Updates	\$5,000	0.3%	\$5,000	0.2%
	6	Newsletter, Mailings, Website, General Communication Materials	\$10,000	0.5%	\$10,000	0.4%
	7	Landscaping for Clean Water Workshop Program (Dakota SWCD)	\$30,400	1.6%	\$30,400	1.2%
	8	K-12 Classroom Presentations (Dakota SWCD)	\$4,000	0.2%	\$4,000	0.2%
	9	Watershed Tours	\$0	0.0%	\$1,500	0.1%
	10	Local Standards/ Ordinance and Turf/ Salt Workshops	\$3,500	0.2%	\$3,500	0.1%
		Subtotal Public Outreach and Communication	\$161,150	8.3%	\$192,450	7.7%
Regulation	1	Scott SWCD Assistance with Plan Review	\$900	0.0%	\$900	0.0%
-2170020	530 2	Engineering Assistance and Review	\$35,000	1.8%	\$45,000	1.8%
	3	VRW Staff Local Program Assistance	\$20,000	1.0%	\$20,000	0.8%
		Subtotal Regulation	\$55,900	2.9%	\$65,900	2.6%
	1	Coordination VRW Staff	\$32,000	1.6%	\$32,000	1.3%
Coordination and Collaborati	on 2	Wetland Health Evaluation Program Cost Share	\$0	0.0%	\$3,000	0.1%
-2170020	531 3	Children's Water Festival Support	\$600	0.0%	\$600	0.0%

		2022		2021	
		<u>Draft Budget</u>	Budget %	Revised Budget	Budget %
<u>Category</u>	Budget Items	<u>Amount</u>	of Total	<u>Amount</u>	of Total
4	Watershed Partners	\$5,000	0.3%	\$5,000	0.2%
5	Master Water Stewards	\$5,000	0.3%	\$5,000	0.2%
	Subtotal Coordination and Collaboration	\$42,600	2.2%	\$45,600	1.8%
Land and Water Treatment					
1	Cost Share Programs in Dakota County (SWCD)	\$80,000	4.1%	\$80,000	3.2%
Capital Improvement Projects 2	Cost Share Programs in Scott County (SWCD)	\$31,300	1.6%	\$41,300	1.7%
-2170920130 3	Cost-share	\$215,550	11.1%	\$125,000	5.0%
4	WBIF match	\$0	0.0%	\$0	0.0%
	Subtotal Capital Improvement Projects	\$326,850	16.8%	\$246,300	9.9%
Maintenance 1	Past projects maintenance/ repair	\$40,000	2.1%	\$25,000	1.0%
-2170920130 2	CIP construction oversight, maintenance/ repair staff costs	\$25,000	1.3%	\$25,000	
	Subtotal Maintenance	\$65,000	3.3%	\$50,000	2.0%
Feasibility/Preliminary Studies 1	Preliminary Design, Technical Assistance and Marketing for Capital Improvements (Dakota SWCD)	\$40,000	2.1%	\$40,000	1.6%
-2170020631 2	Preliminary Design, Technical Assistance and Marketing for Capital Improvements	\$150,000	7.7%	\$200,000	8.0%
	Subtotal Feasibility/Preliminary Studies	\$190,000	9.8%	\$240,000	9.6%
Irrigation Audit and Cost Share					
Program 1	Irrigation Audits	\$5,000	0.3%	\$5,000	0.2%
2170020431 2	Irrigation Cost-Share	\$5,000	0.3%	\$5,000	0.2%
	Subtotal Irrigation Audit and Cost Share	\$10,000	0.5%	\$10,000	0.4%
CWF Grant (BWSR) Middle					
Creek Highview 1	Middle Creek Restoration	\$0	0.0%	\$370,000	14.8%
-2170020852 2	VRWJPO cash match	\$0	0.0%	\$50,000	2.0%

<u>Category</u>	Budget Items	2022 <u>Draft Budget</u> <u>Amount</u>	Budget % of Total	2021 Revised Budget Amount	Budget % of Total
	Subtotal CPL Grant Middle Creek/ Pinnacle Reserve	\$0	\$0	\$420,000	16.8%
CWF Grant (BWSR) Erickson		•			
Park Stormwater Improvement 1	Erickson Park Stormwater Improvement	\$0	0.0%	\$114,300	4.6%
-2170020841 2	VRWJPO cash match	\$0	0.0%	\$50,000	2.0%
	Subtotal CWF Grant Erickson Park Stormwater Improvement	\$0	\$0	\$164,300	6.6%
CWF Grant (BWSR) Aronson Park Stormwater Reuse 1	Aronson Park Stormwater Reuse Project	\$0	0.00/	¢10,000	0.40/
	·	·	0.0%	\$10,000	0.4%
-2170020843 2	VRWJPO cash match	\$0 	0.0%	\$ 0	0.0%
	Subtotal CWF Grant Aronson Park Stormwater Reuse	\$0	\$0	\$10,000	0.4%
CWF Grant (BWSR) Webster					
Wetland Restoration 1	Webster Wetland Restoration	\$0	0.0%	\$67,000	2.7%
-2170020844 2	VRWJPO cash match	\$0	0.0%	\$0	0.0%
	Subtotal CWF Grant Webster Wetland Restoration	\$0	0.0%	\$67,000	2.7%
CWF Grant (BWSR) Technical					
Assistance and Cost Share 1	Technical Assistance and Cost Share (TACS)	\$0	0.0%	\$17,700	0.7%
-2170020845 2	VRWJPO cash match	\$0	0.0%	\$1,800	0.1%
	Subtotal CWF Grant Technical Assistance and Cost Share Program	\$0	0.0%	\$19,500	0.8%
CWF Grant (BWSR) Imminent	Leave's and the alth. There at Opent's the seconds	00	0.00/	Фо ооо	0.007
Health Threat Septic Upgrades 1	Imminent Health Threat Septic Upgrades	\$0	0.0%	\$8,000	0.3%
-2170020846 2	VRWJPO cash match	\$0	0.0%	\$ 0	0.0%
	Subtotal CWF Grant Imminent Health Threat Septic Upgrades	\$0	0.0%	\$8,000	0.3%
2020-2023 WBIF Grant (BWSR)		4000 700	4.4.007	# 400 750	
North Creek Stabilization 1	North Creek Stabilization	\$288,700	14.9%	\$168,750	
-2170020853 2	VRWJPO cash match	\$50,000	2.6%	\$18,750	

		2022 <u>Draft Budget</u>	Budget %	2021 Revised Budget	Budget %
<u>Category</u>	Budget Items	<u>Amount</u>	of Total	<u>Amount</u>	of Total
	Subtotal 2020-2023 WBIF Grant North Creek Stabilization	\$338,700	17.4%	\$187,500	7.5%
2020-2023 WBIF Grant (BWSR) Farmington Direct Drainage 1	Farmington Direct Drainage Assessment	\$13,400	0.7%	\$13,300	
-2170020854 2	VRWJPO cash match	\$3,330	0.7%	\$3,330	
	Subtotal 2020-2023 WBIF Grant Hastings/ Farmington Direct Drainage Assessment	\$16,730	0.9%	\$16,630	0.7%
2020-2023 WBIF Grant (BWSR) Hastings Direct Drainage 1	Hastings Direct Drainage Assessment	\$26,700	1.4%	\$13,300	
-2170020855 2	VRWJPO cash match	\$3,330	0.2%	\$3,330	
	Subtotal 2020-2023 WBIF Grant Hastings/ Farmington Direct Drainage Assessment	\$30,030	1.5%	\$16,630	0.7%
2020-2023 WBIF Grant (BWSR) Ravenna Basins Restoration 1	Ravenna Basins Restoration	\$59,000	3.0%	\$29,500	
-2170020856 2	VRWJPO cash match Subtotal 2020-2023 WBIF Grant Ravenna Basins Restoration	\$26,000 \$85,000	1.3% 4.4%	\$6,000 \$35,500	1.4%
2020-2023 WBIF Grant (BWSR)	Oubtotal 2020-2025 WBII Orant Navellia Basilis Nestoration	ψου,σου	7.770	ψ33,300	1.470
Rosemount Anti-Icing 1	Rosemount Anti-Icing	\$0	0.0%	\$15,000	
-2170020857 2	VRWJPO cash match	\$0	0.0%	\$0	
	Subtotal 2020-2023 WBIF Grant Ravenna Basins Restoration	\$0	0.0%	\$15,000	0.6%
CWF Grant (BWSR) 1 -2170020848	WBF Grant Admin	\$17,700	0.9%	\$23,700	0.9%
	Subtotal WBF Grant Admin	\$17,700	0.9%	\$23,700	0.9%
	Subtotal of Expenditures	\$1,753,160	90.2%	\$2,297,510	92.0%

<u>Category</u>	Budget Items	2022 <u>Draft Budget</u> <u>Amount</u>	Budget % of Total	2021 Revised Budget Amount	Budget % of Total
	Cash Reserve	\$189,440	9.8%	\$200,390	8.0%
	TOTAL Annual Expenses	\$1,942,600	100.0%	\$2,497,900	100.0%

		2022		2021	
		<u>Draft Budget</u>	Budget %	Revised Budget	Budget %
<u>Category</u>	<u>Budget Items</u>	<u>Amount</u>	of Total	<u>Amount</u>	of Total
REVENUE					
	CIP Reserve	\$146,000	7.5%	\$205,900	8.2%
	CIP Reserve Grant Match	\$84,000	4.3%	\$101,800	4.1%
	Fund Balance from Underspending in Previous Year	\$456,000	23.5%	\$336,000	13.5%
	CWF Grant (BWSR)	\$0	0.0%	\$370,000	14.8%
	CWF Grant WBIF (BWSR) 2019-2021	\$0	0.0%	\$218,100	8.7%
	CWF Grant WBIF (BWSR) 2020-2023	\$243,600	12.5%	\$243,600	9.8%
	Fees for Permitting Activities	\$1,000	0.1%	\$2,500	0.1%
	Dakota County Levy	\$967,500	49.8%	\$966,650	38.7%
	Scott County Levy	\$32,500	1.7%	\$33,350	1.3%
	Investment Earnings	\$12,000	0.6%	\$20,000	0.8%
	TOTAL Annual Revenue	\$1,942,600	100.0%	\$2,497,900	100.0%

Vermillion River Watershed Management Tax District Estimated Pay 2022 Taxes * (Dakota County)

Residential Property

Market	Tax				Propose	ed 2022 Levy				2021 Actual	2020 Actual	2019 Actual	2018 Actual	2017 Actual	2016 Actual	2015 Actual	2014 Actual	2013 Actual	2012 Actual	2011 Actual	2010 Actual	2009 Actual
Value	Capacity	\$300,000	\$400,000	\$500,000	\$750,000	\$967,500	\$1,000,000	\$1,250,000	\$1,500,000	\$966,650	\$966,000	\$912,900	\$887,900	\$861,700	\$821,140	\$817,500	\$858,900	\$831,600	\$868,000	\$964,700	\$1,047,905	\$1,138,839
Rate		0.0728%	0.1135%	0.1542%	0.2559%	0.3444%	0.3577%	0.4594%	0.5612%	0.3450%	0.3990%	0.4030%	0.4290%	0.4490%	0.4490%	0.4660%	0.5450%	0.5430%	0.5410%	0.5550%	0.5660%	0.4068%
Various Values																						
\$150,000	1,263	\$0.92	\$1.43	\$1.95	\$3.23	\$4.35	\$4.52	\$5.80	\$7.09	\$4.36	\$5.04	\$5.09	\$5.42	\$5.67	\$5.67	\$5.88	\$6.88	\$6.86	\$6.83	\$7.01	\$7.15	\$5.14
\$170,514	1,486	\$1.08	\$1.69	\$2.29	\$3.80	\$5.12	\$5.32	\$6.83	\$8.34	\$5.13	\$5.93	\$5.99	\$6.38	\$6.67	\$6.67	\$6.93	\$8.10	\$8.07	\$8.04	\$8.25	\$8.41	\$6.05
\$185,000	1,644	\$1.20	\$1.87	\$2.53	\$4.21	\$5.66	\$5.88	\$7.55	\$9.23	\$5.67	\$6.56	\$6.63	\$7.05	\$7.38	\$7.38	\$7.66	\$8.96	\$8.93	\$8.89	\$9.12	\$9.31	\$6.69
\$190,000	1,699	\$1.24	\$1.93	\$2.62	\$4.35	\$5.85	\$6.08	\$7.80	\$9.53	\$5.86	\$6.78	\$6.85	\$7.29	\$7.63	\$7.63	\$7.92	\$9.26	\$9.22	\$9.19	\$9.43	\$9.61	\$6.91
\$200,000	1,808	\$1.32	\$2.05	\$2.79	\$4.63	\$6.23	\$6.47	\$8.30	\$10.14	\$6.24	\$7.21	\$7.28	\$7.75	\$8.12	\$8.12	\$8.42	\$9.85	\$9.82	\$9.78	\$10.03	\$10.23	\$7.35
\$210,000	1,917	\$1.39	\$2.17	\$2.95	\$4.90	\$6.60	\$6.86	\$8.81	\$10.76	\$6.61	\$7.65	\$7.72	\$8.22	\$8.61	\$8.61	\$8.93	\$10.45	\$10.41	\$10.37	\$10.64	\$10.85	\$7.80
\$225,000	2,080	\$1.51	\$2.36	\$3.21	\$5.32	\$7.16	\$7.44	\$9.56	\$11.67	\$7.18	\$8.30	\$8.38	\$8.92	\$9.34	\$9.34	\$9.69	\$11.34	\$11.29	\$11.25	\$11.54	\$11.77	\$8.46
\$250,000	2,353	\$1.71	\$2.67	\$3.63	\$6.02	\$8.10	\$8.41	\$10.81	\$13.20	\$8.12	\$9.39	\$9.48	\$10.09	\$10.56	\$10.56	\$10.96	\$12.82	\$12.77	\$12.73	\$13.06	\$13.32	\$9.57
\$275,000	2,625	\$1.91	\$2.98	\$4.05	\$6.72	\$9.04	\$9.39	\$12.06	\$14.73	\$9.06	\$10.47	\$10.58	\$11.26	\$11.79	\$11.79	\$12.23	\$14.31	\$14.25	\$14.20	\$14.57	\$14.86	\$10.68
\$291,300	2,803	\$2.04	\$3.18	\$4.32	\$7.17	\$9.65	\$10.02	\$12.88	\$15.73	\$9.67	\$11.18	\$11.30	\$12.02	\$12.58	\$12.58	\$13.06	\$15.28	\$15.22	\$15.16	\$15.56	\$15.86	\$11.40
\$308,000	2,985	\$2.17	\$3.39	\$4.60	\$7.64	\$10.28	\$10.68	\$13.71	\$16.75	\$10.30	\$11.91	\$12.03	\$12.80	\$13.40	\$13.40	\$13.91	\$16.27	\$16.21	\$16.15	\$16.57	\$16.89	\$12.14
\$325,000	3,170	\$2.31	\$3.60	\$4.89	\$8.11	\$10.92	\$11.34	\$14.56	\$17.79	\$10.94	\$12.65	\$12.78	\$13.60	\$14.23	\$14.23	\$14.77	\$17.28	\$17.21	\$17.15	\$17.59	\$17.94	\$12.90
\$350,000	3,443	\$2.50	\$3.91	\$5.31	\$8.81	\$11.86	\$12.31	\$15.82	\$19.32	\$11.88	\$13.74	\$13.87	\$14.77	\$15.46	\$15.46	\$16.04	\$18.76	\$18.69	\$18.62	\$19.11	\$19.49	\$14.01
\$375,000	3,715	\$2.70	\$4.22	\$5.73	\$9.51	\$12.80	\$13.29	\$17.07	\$20.85	\$12.82	\$14.82	\$14.97	\$15.94	\$16.68	\$16.68	\$17.31	\$20.25	\$20.17	\$20.10	\$20.62	\$21.03	\$15.11
\$400,000	3,988	\$2.90	\$4.52	\$6.15	\$10.21	\$13.74	\$14.26	\$18.32	\$22.38	\$13.76	\$15.91	\$16.07	\$17.11	\$17.90	\$17.90	\$18.58	\$21.73	\$21.65	\$21.57	\$22.13	\$22.57	\$16.22
\$425,000	4,250	\$3.09	\$4.82	\$6.55	\$10.88	\$14.64	\$15.20	\$19.53	\$23.85	\$14.66	\$16.96	\$17.13	\$18.23	\$19.08	\$19.08	\$19.81	\$23.16	\$23.08	\$22.99	\$23.59	\$24.06	\$17.29
\$450,000	4,500	\$3.27	\$5.11	\$6.94	\$11.52	\$15.50	\$16.10	\$20.67	\$25.25	\$15.53	\$17.96	\$18.14	\$19.31	\$20.21	\$20.21	\$20.97	\$24.53	\$24.44	\$24.35	\$24.98	\$25.47	\$18.31
\$475,000	4,750	\$3.46	\$5.39	\$7.32	\$12.16	\$16.36	\$16.99	\$21.82	\$26.66	\$16.39	\$18.95	\$19.14	\$20.38	\$21.33	\$21.33	\$22.14	\$25.89	\$25.79	\$25.70	\$26.36	\$26.89	\$19.32
\$500,000	5,000	\$3.64	\$5.67	\$7.71	\$12.80	\$17.22	\$17.88	\$22.97	\$28.06	\$17.25	\$19.95	\$20.15	\$21.45	\$22.45	\$22.45	\$23.30	\$27.25	\$27.15	\$27.05	\$27.75	\$28.30	\$20.34

*Estimated TCAP 245,684,638 (as of 08/16/2021) Pay 2021 Median Value: 291,300 Pay 2022 Median Value: 308,000 Attachment B

WHAT IF TAX COMPARISON PAY 2021 vs Pay 2022

FISCAL YEAR 2021	
8,368,832 GROSS TAX CAPACITY (9,016) 10% KV TRANS LINE (-) (411,066) FISCAL DISPARITY (-) 7,948,750 NET TAX CAPACITY	\$ 33,350 FINAL CERTIFIED LEVY \$ (3,287) FISCAL DISPARITY (-) \$ 30,063 TAX LEVY OR SPREAD LEVY
Tax Rate	e 0.378%
FISCAL YEAR 2022	
8,734,251 GROSS TAX CAPACITY (15,335) 10% KV TRANS LINE (-)	\$ 32,500 PROPOSED LEVY OR CERTIFIED LEVY
(467,451) FISCAL DISPARITY (-)	\$ (3,475) FISCAL DISPARITY (-)
8,251,465 NET TAX CAPACITY	\$ 29,025 TAX LEVY OR SPREAD LEVY
as of 8/25/2021 Tax Rate	e 0.352%

RESIDENTIAL I	IMPACTS													ſ	Pa	ay 2021	Pa	ay 2022				Median & Av	erage Values	
			A٠	verage	A	Average	Value		Taxable	Va	alue		Taxable			Net		Net	Net	Net	2021	2022	2022	2022
	% Value Range	# of affected		ket Value	Ma	arket Value	Exclusion		Market Value	-		Ма		Taxable %		ayable		ayable	Inc/Dec	Difference	Median	Median	Average	Value
	Inc/Dec	Properties		2021		2022	2021		2021		022			Chg 21-22		2021			2021 vs 2022	% Change	Values	Values	Values	% Change
Elko New Mrkt City	+15.01+%	12	\$	301,300	\$	346,495	\$ 10,12	23	\$ 291,177		5,055	\$	340,440	16.92%	\$	11.01	\$	11.98	\$ 0.96	8.740%	\$ 307,400	\$ 316,300	\$ 311,000	2.9%
1500	+10.01-15.00%	81	\$	301,300	\$	338,963	\$ 10,12	23	\$ 291,177	\$ 6	5,733	\$	332,229	14.10%	\$	11.01	\$	11.69	\$ 0.67	6.118%				
	+5.01-10.00%	289	\$	301,300	\$	323,898	\$ 10,12	23	\$ 291,177	, .	3,089	\$	315,808	8.46%		11.01	\$	11.11	\$ 0.10	0.873%				
	+0.01-5.00%	1016	\$	301,300	\$	308,833	\$ 10,12	23	\$ 291,177	\$ 9	9,445	\$	299,387	2.82%	\$	11.01	\$	10.53	\$ (0.48)	-4.372%				
	No Change	17	\$	301,300	\$	301,300	\$ 10,12	23	\$ 291,177	\$ 10),123	\$	291,177	0.00%	\$	11.01	\$	10.24	\$ (0.77)	-6.995%				
	-0.01-5.00%	78	\$	301,300	\$	293,768	\$ 10,12	23	\$ 291,177	\$ 10	0,801	\$	282,967	-2.82%	\$	11.01	\$	9.95	\$ (1.06)	-9.617%				
	-5.01-10%	3	\$	301,300	\$	278,703	\$ 10,12	23	\$ 291,177	\$ 12	2,157	\$	266,546	-8.46%	\$	11.01	\$	9.38	\$ (1.64)	-14.862%				
	-10.01-15%	2	\$	301,300	\$	263,638	\$ 10,12	23	\$ 291,177	\$ 13	3,513	\$	250,125	-14.10%	\$	11.01	\$	8.80	\$ (2.21)	-20.107%				
	-15.01+	2	\$	301,300	\$	256,105	\$ 10,12	23	\$ 291,177	\$ 14	1,191	\$	241,914	-16.92%	\$	11.01	\$	8.51	\$ (2.50)	-22.730%				
New Market Twp	+15.01+%	12	\$	472,000	\$	542,800	\$ -		\$ 472,000	\$	-	\$	542,800	15.00%	\$	17.85	\$	19.47	\$ 1.62	9.064%	\$ 452,300	\$ 463,200	\$ 484,200	2.4%
1152	+10.01-15.00%	18	\$	472,000	\$	531,000	\$ -		\$ 472,000	\$	-	\$	531,000	12.50%	\$	17.85	\$	18.95	\$ 1.10	6.158%				
	+5.01-10.00%	63	\$	472,000	\$	507,400	\$ -		\$ 472,000	\$	-	\$	507,400	7.50%	\$	17.85	\$	17.91	\$ 0.06	0.345%				
	+0.01-5.00%	900	\$	472,000	\$	483,800	\$ -		\$ 472,000	\$	-	\$	483,800	2.50%	\$	17.85	\$	17.02	\$ (0.83)	-4.670%				
	No Change	50	\$	472,000	\$	472,000	\$ -		\$ 472,000	\$	_	\$	472,000	0.00%	\$	17.85	\$	16.60	\$ (1.25)	-6.995%				
	-0.01-5.00%	81	\$	472,000	\$	460,200	\$ -		\$ 472.000	\$	_	\$	460,200	-2.50%		17.85		16.19	,	-9.320%				
	-5.01-10%	4	\$	472,000	\$	436,600	\$ -		\$ 472.000	\$	_	\$	436,600	-7.50%		17.85		15.36	. ,	-13.970%				
	-10.01-15%	· ·	φ	•	φ	,	ψ <u>-</u>		, , , , , ,	φ	70	ψ	412,930			17.85			. ,					
		16	Φ	472,000	Φ	413,000	φ -		\$ 472,000 \$ 472,000	Φ 4	70	φ	,	-12.51%			,	14.53	. ,	-18.634%				
	-15.01+	8	Þ	472,000	Ъ	401,200	D -		\$ 472,000	\$ 1	1,132	\$	400,068	-15.24%	\$	17.85	Ъ	14.07	\$ (3.78)	-21.169%				
County Wide		45,815	\$	339,400	\$	358,100	\$ 6,69)4	\$ 332,706	\$ 5	5,011	\$	353,089	6.13%	\$	12.58	\$	12.42	\$ (0.16)	-1.297%	\$ 303,800	\$ 321,400	\$ 358,100	5.8%

6c. Authorize Execution of Joint Powers Agreement with Dakota County for the Wetland Health Evaluation Program

Meeting Date: 12/2/2021
Item Type: Regular-Action
Contact: Mark Zabel
Telephone: 952-891-7011
Prepared by: Paula Liepold

Reviewed by: N/A N/A



PURPOSE/ACTION REQUESTED

 Authorize execution of Joint Powers Agreement with Dakota County for the Wetland Health Evaluation Program

SUMMARY

The Dakota County Environmental Resources Department coordinates the Wetland Health Evaluation Program (WHEP), a program consistent with the outreach and communication goals of the Vermillion River Watershed Joint Powers Organization (VRWJPO). WHEP, a collaborative program of Dakota County, partner cities in the Vermillion River Watershed and the County, the North Cannon River Watershed Management Organization, the Minnesota Pollution Control Agency, and a consulting firm, directly engages community members in learning about and evaluating wetland resources. Trained volunteers monitor macroinvertebrates and vegetation at wetlands selected by the participating communities and organizations to determine the overall health of each wetland. Participating local government units (LGUs) engage volunteers as a team for which two to four wetlands are selected for evaluation and one wetland is cross-checked for quality control.

The proposed Joint Powers Agreement is a multiple year agreement that allows the VRWJPO to participate in the WHEP program by selecting wetlands, forming a team, and providing funding to support the team. Program participation is determined annually. The VRWJPO staff requests that the Vermillion River Watershed Joint Powers Board execute a Joint Powers Agreement with Dakota County for WHEP.

EXPLANATION OF FISCAL/FTE IMPACT

None

Supporting Documents:	
Attachment A: JPA with Dakota County for WHEP	

Previous Board Action(s):

- ; - ;

RESOLUTION

6c. Authorize Execution of Joint Powers Agreement with Dakota County for the Wetland Health Evaluation Program

WHEREAS, Dakota County Environmental Resources Department is coordinating the Wetland Health Evaluation Program (WHEP), an outreach and communication program that has direct benefits to the Vermillion River Watershed; and

WHEREAS, a Joint Powers Agreement between Dakota County and the VRWJPO allows the VRWJPO to participate in the WHEP program by selecting wetlands, forming a team and supporting the team; and

NOW, THEREFORE, BE IT RESOLVED, that the Vermillion River Watershed Joint Powers Board (VRWJPB) authorizes the chair to execute a Joint Powers Agreement with Dakota County for participation in the Wetland Health Evaluation Program; subject to approval by the Dakota County Attorney's Office as to form.

JOINT POWERS AGREEMENT BETWEEN DAKOTA COUNTY AND THE VERMILLION RIVER WATERSHED JOINT POWERS ORGANIZATION FOR THE WETLAND HEALTH EVALUATION PROGRAM

The parties to this Agreement are the County of Dakota, a political subdivision of the State of Minnesota (County) and the Vermillion River Watershed Joint Powers Organization (VRWJPO), a watershed management body consisting of Dakota and Scott Counties (VRWJPO) governed by the Vermillion River Watershed Joint Powers Board (VRWJPB). This Agreement is made pursuant to the authority conferred upon the parties by Minn. Stat. § 471.59.

NOW, THEREFORE, in consideration of the mutual promises and benefits that the County and the VRWJPO shall derive from this Agreement, the County and the VRWJPO hereby enter into this Agreement for the purposes stated herein.

SECTION 1 PURPOSE

The purpose of this Agreement is to facilitate the analysis of wetlands located with the Vermillion River Watershed through the Dakota County Wetland Health Evaluation Program (WHEP), which is coordinated and managed by the County, to obtain data and other information to assist both parties in performing their responsibilities under the Minnesota Wetland Conservation Act.

SECTION 2 TERM

Notwithstanding the date of the signatures of the parties, the term of this Agreement shall commence on January 1, 2022, and shall continue in full force and effect until December 31, 2026, unless earlier terminated by law or according to the provisions of this Agreement.

SECTION 3 COOPERATION

The parties agree to cooperate and use their reasonable efforts to ensure prompt implementation of the various provisions of this Agreement and to, in good faith, undertake resolution of any dispute in an equitable and timely manner.

SECTION 4 EXERCISE OF POWERS

The parties to this Agreement agree that the County shall administer the funds collected hereunder and disburse these funds for expenses incurred by WHEP.

SECTION 5 POWERS AND DUTIES OF THE COUNTY

- 5.1 The County shall administer the WHEP funds on behalf of the VRWJPO.
- 5.2 The County shall serve as fiscal agent for the funds collected hereunder. The County shall establish and maintain such funds and accounts as may be required by generally accepted accounting practices.
- 5.3 The County may apply for and accept gifts, grants, loans and money, other property or assistance from federal or state agencies or any other person to carry out the WHEP in Dakota County.
- 5.4 The County may use funds to hire and retain a monitoring coordinator, a non-profit agency, consulting firms and such other personnel as may be needed to provide the services contemplated under this Agreement. Notwithstanding the foregoing, the parties agree that WHEP is a volunteer-based program

and that data collection shall be performed solely by volunteers trained by the County. All volunteers participating in the WHEP shall be considered agents of the County and not agents of the VRWJPO.

SECTION 6 FUNDING

On or before March 31 each year of the term of this Agreement, the County shall provide to the VRWJPO a complete WHEP fee schedule for that calendar year, including an itemization of the fee for analyzing each wetland and the fee for performing a quality assurance recheck to enable the VRWJPO to evaluate whether to participate in the WHEP for that year. If the VRWJPO elects to participate in the WHEP for that year, the VRWJPO shall notify the County and the County shall provide the services described herein. On or about July 1 of each year that the VRWJPO elects to participate, the County shall submit an invoice to the VRWJPO for the WHEP fees for that year and the VRWJPO shall remit payment to the County within 30 days after receipt of such invoice.

SECTION 7 WHEP TIMELINE

The parties agree to the following timeline for each year of the term of this Agreement:

Spring The County shall provide a WHEP fee schedule to the VRWJPO and

the VRWJPO shall notify the County if the VRWJPO elects to

participate in the WHEP for that calendar year and identify the specific

wetlands to be analyzed.

Late Spring and Summer Trained volunteers shall collect data regarding the quantity and variety

> of plants and insects within each VRWJPO designated wetland. A consultant hired by the County shall conduct a quality assurance

recheck on one of the wetlands.

Fall The consultant hired by the County shall compile and analyze the data

collected for all wetlands within the VRWJPO under the WHEP and

prepare a written report on the same.

Winter The County shall deliver to the VRWJPO the consultant's written report

and the data collected for all wetlands analyzed within the Watershed.

SECTION 8 INDEMNIFICATION

Each party to this Agreement shall be liable for the acts of its officers, employees or agents and the results thereof to the extent authorized by law and shall not be responsible for the acts of the other party, its officers, employees or agents. The provisions of the Municipal Tort Claims Act. Minn. Stat. ch. 466 and other applicable laws govern liability of the County and the VRWJPO. The provisions of this section shall survive the expiration or termination of this Agreement.

SECTION 9 AUTHORIZED REPRESENTATIVES AND LIAISONS

9.1 Authorized Representatives. The following named persons are designated the Authorized Representatives of the parties for purposes of this Agreement. These persons have authority to bind the party they represent and to consent to modifications, except that the authorized representative shall have only the authority specifically or generally granted by their respective governing boards. Notice required to be provided pursuant to this Agreement shall be provided to the following named persons and addresses unless otherwise stated in this Agreement, or in a modification of this Agreement:

TO THE COUNTY: Georg Fischer or successor, Director

Environmental Resources Department

14955 Galaxie Avenue Apple Valley, MN 55124

TO THE VRWJPO: Mike Slavik or successor, Chair

Vermillion River Watershed Joint Powers Organization

14955 Galaxie Avenue Apple Valley, MN 55124

In addition, notification to the County regarding termination of this Agreement by the other party shall be provided to the Office of the Dakota County Attorney, Civil Division,1560 Highway 55, Hastings, Minnesota 55033.

9.2 <u>Liaisons</u>. To assist the parties in the day-to-day performance of this Agreement and to ensure compliance and provide ongoing consultation, a liaison shall be designated by the County and the VRWJPO. The parties shall keep each other continually informed, in writing, of any change in the designated liaison. At the time of execution of this Agreement, the following persons are the designated liaisons:

County Liaison

Paula Liepold, or successor Telephone: (952) 891-7117

Email: paula.liepold@co.dakota.mn.us

VRWJPO Liaison

Mark Zabel, or successor Telephone: 952-891-7011

Email: mark.zabel@co.dakota.mn.us

SECTION 10 TERMINATION

Either party may terminate this Agreement at any time upon 90 days written notice to the other party.

SECTION 11 GENERAL PROVISIONS

- 11.1 <u>Compliance with Laws/Standards</u>. The VRWJPO and the County agree to abide by all federal, state or local laws, statutes, ordinances, rules and regulations now in effect or hereafter adopted pertaining to this Agreement or to the facilities, programs and staff for which either party is responsible.
- 11.2 <u>Excused Default Force Majeure</u>. Neither party shall be liable to the other party for any loss or damage resulting from a delay or failure to perform due to unforeseeable acts or events outside the defaulting party's reasonable control, providing the defaulting party gives notice to the other party as soon as possible. Acts and events may include acts of God, acts of terrorism, war, fire, flood, epidemic, acts of civil or military authority, and natural disasters.
- 11.3 <u>Contract Rights Cumulative Not Exclusive</u>.
 - A. All remedies available to either party for breach of this Agreement are cumulative and may be exercised concurrently or separately, and the exercise of any one remedy shall not be deemed an election of such remedy to the exclusion of other remedies. The rights and remedies provided in this Agreement are not exclusive and are in addition to any other rights and remedies provided by law.
 - B. Waiver for any default shall not be deemed to be a waiver of any subsequent default. Waiver of breach of any provision of this Agreement shall not be construed to be modification for the terms of this Agreement unless stated to be such in writing and signed by authorized representatives of the County and the VRWJPO.
- 11.4 Records Retention and Audits. Each party's bonds, records, documents, papers, accounting procedures and practices, and other records relevant to this Agreement are subject to the examination, duplication, transcription and audit by the other party, the Legislative Auditor or State Auditor under Minn. Stat. § 16C.05, subd. 5. If any

funds provided under this Agreement use federal funds these records are also subject to review by the Comptroller General of the United States and his or her approved representative. Following termination of this Agreement, the parties must keep these records for at least six years or longer if any audit-in-progress needs a longer retention time.

- 11.5 <u>Modifications</u>. Any alterations, variations, modifications, or waivers of the provisions of this Agreement shall only be valid when they have been reduced to writing and signed by the authorized representatives of the County and the VRWJPO.
- 11.6 <u>Assignment</u>. Neither party may assign any of its rights under this Agreement without the prior written consent of the other party. Said consent may be subject to conditions.
- 11.7 <u>Government Data Practices</u>. For purposes of this Agreement, all data on individuals collected, created, received, maintained or disseminated shall be administered consistent with the Minnesota Government Data Practices Act. Minn. Stat. ch. 13.
- 11.8 <u>Minnesota Law to Govern</u>. This Agreement shall be governed by and construed in accordance with the substantive and procedural laws of the State of Minnesota, without giving effect to the principles of conflict of laws. All proceedings related to this Agreement shall be venued in Dakota County, Minnesota. The provisions of this section shall survive the expiration or termination of this Agreement.
- 11.9 <u>Merger</u>. This Agreement is the final expression of the agreement of the parties and the complete and exclusive statement of the terms agreed upon and shall supersede all prior negotiations, understandings, or agreements.
- 11.10 <u>Severability</u>. The provisions of this Agreement shall be deemed severable. If any part of this Agreement is rendered void, invalid, or unenforceable, such rendering shall not affect the validity and enforceability of the remainder of this Agreement unless the part or parts that are void, invalid or otherwise unenforceable shall substantially impair the value of the entire Agreement with respect to either party.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date(s) indicated below.

APPROVED AS TO FORM:	DAKOTA COUNTY
/s/ Assistant County Attorney/Date KS-21-438-011 County Board Res. No	By Georg Fischer or successor, Director Environmental Resources Department Date of Signature:
	VERMILLION RIVER WATERSHED JOINT POWERS ORGANIZATION
	By Mike Slavik or successor, Chair Date of Signature:

6d. Model Ordinance Update for Implementation of the Vermillion River Watershed Joint Powers Organization Standards

Meeting Date: 12/2/2021
Item Type: Information
Contact: Mark Ryan
Telephone: 952-891-7596
Prepared by: Mark Ryan



PURPOSE/ACTION REQUESTED

 Model Ordinance Update for Implementation of the Vermillion River Watershed Joint Powers Organization Standards

SUMMARY

The Vermillion River Watershed Joint Powers Organization (VRWJPO) updated its watershed Standards, a document of minimum regulatory requirements for the watershed, during the last Vermillion River Watershed Management Plan (the Watershed Plan) update in 2016 and then amended the Standards in 2019 based on feedback from watershed communities. From 2018 to 2020, communities in the watershed also updated local comprehensive plans including Local Water Management Plans. Many of the townships and small cities in the watershed elected to adopt the Watershed Plan by reference rather than write individual Local Water Management Plans. Part of implementing the Watershed Plan includes implementing the VRWJPO Standards through local ordinances (unless a community has agreed to have the VRWJPO operate a local permitting program).

After the last round of comprehensive planning, many of the townships and small cities combined to create the Water Resources Management Ordinance for the Dakota County Rural Collaborative (2010 Update). With the updates to the VRWJPO Standards in 2016 and 2019, there are now some portions of the ordinance that are outdated. In addition, some larger communities may have additional requirements for stormwater brought on by the Municipal Separate Storm Sewer System (MS4) permitting program of the Minnesota Pollution Control Agency.

In response to the need for communities to update their ordinances, the VRWJPO has created an updated model ordinance for local communities to modify and/or adopt to ensure that local requirements match the latest version of the VRWJPO Standards. A copy of the model ordinance is provided as an attachment. VRWJPO staff will be reaching out to local community staff about ordinances at the end of 2021 and beginning of 2022 and will offer to answer questions upon request.

EXPLANATION OF FISCAL/FTE IMPACT

No fiscal impact.

Supporting Documents: Attachment A: VRWJPO Model Ordinance 2021 Up		Previous Board Action(s): - ;
RESOLUTION		
6d. Model Ordinance Update for Implementation	of the Vermillion River Watershe Standards	ed Joint Powers Organization
This item is information only.		

Water Resources Management Model Ordinance

2021 UPDATE

Applicable to the Communities of the Vermillion River Watershed

Drafted by the Vermillion River Watershed Joint Powers Organization (VRWJPO) to assist with ordinance updates after the 2018-19 Comprehensive Planning Process (2040 Comprehensive Plans) and the 2019 The VRWJPO Standards

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2021 Update iii

ORDINANCE NO.

<u>CITY OR TOWNSHIP</u>, DAKOTA COUNTY, MINNESOTA

AN ORDINANCE ESTABLISHING WATER RESOURCES MANAGEMENT PERMIT REQUIREMENTS AND PERFORMANCE STANDARDS

The Board of Supervisors of	_Township	(the	"Community")	ordains	as
follows:					

SECTION 1. TITLE

This ordinance shall be known as the "Water Resources Management Ordinance" except as referred to herein as "this Ordinance."

SECTION 2. PURPOSE

The purpose of this Ordinance is to protect the public health, safety, and welfare through the effective management of water resources in this Community. It is intended that the requirements, regulations, and performance standards of this Ordinance will:

- Implement the Vermillion River Watershed Management Plan as adopted by reference in the Dakota County Collaborative Comprehensive Plan or Community-level comprehensive plan,
- Protect and preserve the function and value of water resources,
- Prevent unregulated land disturbance activities which may harm water resources,
- Protect wetland functions consistent with the Wetland Conservation Act,
- Reduce harmful effects of erosion and sedimentation,
- Reduce property damage by seasonal flooding,
- Improve surface and groundwater quality.

SECTION 3. SCOPE AND AUTHORITY

- 3.01 <u>Scope</u>. The terms, standards, and regulations of this Ordinance shall apply within the portion of the Community located within the Vermillion River Watershed. No land shall be subdivided or disturbed, except in compliance with the terms, standards, and regulations set forth herein.
- 3.02 <u>Authority</u>. The Community shall act as the Local Governmental Unit (LGU) for the permitting and enforcement of this Ordinance, except as otherwise specifically provided herein.

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- 3.03 <u>Referral to Vermillion River Watershed Joint Powers Organization (VRWJPO)</u>. Prior to the approval of a permit involving any following conditions, the Community must forward land alterations plans to the VRWJPO for review and comment:
 - Variances from this Ordinance that affect surface water or impact surface water/groundwater interactions,
 - Diversions,
 - Intercommunity flows (upon request of adjoining communities),
 - Land disturbance area of 40 acres or more, and
 - Projects that are adjacent to or appear to impact a watercourse or unique natural resources.
- 3.04 <u>General Plan Submittal Requirements</u>. In addition to the plan submittal requirements identified by the Community for the various permit applications in this Ordinance, any permit submittal requiring review by the VRWJPO in Section 3.03 above shall include electronic files or two sets of plans (preferred 11" X 17") for referral by the Community to the VRWJPO.

SECTION 4. DEFINITIONS

- 4.01 <u>Application and Interpretation</u>. Except as otherwise provided or clearly implied by context, all terms shall be given their commonly accepted definition. Unless specifically defined herein, terms used in this Ordinance shall have the same definition as provided in Minn. Stat. § Chs. 103B and 103D and Minn. R. Ch. 8410 as may be amended, and if not defined there, shall have common usage meaning. The words "shall" and "must" are mandatory, while the words "may" or "should" are permissive.
- 4.02 <u>Definitions</u>. For the purposes of this Ordinance, the following terms, words, and phrases have the meaning stated below. Terms, words, or phrases not defined in this Ordinance shall have a dictionary or customary meaning.
- A. <u>Agricultural Activity</u> The use of land for the growing, production, and wholesale distribution or retail sale of field crops, livestock, and livestock products for income production, including but not limited to the following:
 - 1. Field crops, including but not limited to, barley, beans, corn, hay, oats, potatoes, rye, sorghum, and sunflowers
 - 2. Livestock, including but not limited to, dairy and beef cattle, goats, sheep, hogs, horses, poultry, game birds and other animals, including deer, rabbits and mink
 - 3. Livestock products, including but not limited to, milk, butter, cheese, eggs, meat, fur, and honey
 - 4. Trees, shrubs, bushes, and plants for wholesale distribution
 - 5. Sod farming
 - 6. Orchards
- B. <u>Agricultural Preserve</u> A land area created and restricted according to Minnesota Statutes Ch. 473H to remain in agricultural use.
- C. Applicant A person or entity, or representative thereof, that applies for a building

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- permit, subdivision approval, or a permit to allow land-disturbing activities. Applicant also means that person's agents, employees, and others acting under this person's direction.
- D. <u>Bankfull Channel Width</u> The channel width of a stream, creek, or river at bankfull stage.
- E. <u>Bankfull Stage</u> The water level in a stream channel, creek, or river where the flow just begins to leave the main channel and enter the connected floodplain.
- F. <u>Base Flood Elevation</u> The elevation of a surface water resulting from a flood that has a one percent chance of equaling or exceeding that level in any given year.
- G. <u>Best Management Practices (BMPs)</u> Techniques proven to be effective in controlling runoff, erosion and sedimentation, including those documented in the Minnesota Stormwater Manual (MPCA 2005 as amended in online Wiki format) and other sources approved by the VRWJPO as such sources may be amended, revised, or supplemented.
- H. <u>Board</u> The Board of Supervisors or Town Board of a township.
- I. BWSR Minnesota Board of Water and Soil Resources.
- J. <u>Buffer</u> An area of natural, minimally maintained, vegetated ground cover abutting or surrounding a watercourse, public waters wetland, or wetland.
- K. <u>Commercial Use Development</u> The development of property for use as a commercial business or office.
- L. <u>Community</u> A city or township as defined in Minnesota Statutes 462.352, subdivision 2, and "the Community" shall mean the community adopting this Ordinance.
- M. <u>Community Building Inspector</u> The Building Inspector or Building Official hired by the Community to implement and enforce the provisions of this Ordinance.
- N. <u>Community Engineer</u> The registered professional Engineer hired by the Community to implement and enforce the provisions of this Ordinance.
- O. <u>Community</u> A city or town as defined in Minnesota Statutes 462.352, subdivision 2, and "this Community" shall mean the community adopting this Ordinance.
- P. <u>Compensatory Storage</u> Excavated volume of material below the floodplain elevation required to offset floodplain fill.
- Q. <u>Council</u> The City Council of a city.
- R. <u>County</u> Dakota County.
- S. <u>Dakota SWCD or SWCD</u> The Dakota County Soil and Water Conservation District.
- T. <u>Dead Storage</u> The volume of space located below the overflow point of a basin, pond or landlocked basin.
- U. <u>Developer</u> A person, firm, corporation, sole proprietorship, partnership, state agency, or political subdivision thereof engaged in a subdivision or land disturbance activity.
- U. <u>Drain or Drainage</u> Any method for removing or diverting water from water bodies, including excavation of an open ditch, installation of subsurface drainage tile, filling, diking, or pumping.

- V. <u>Easement</u> A strip of privately-owned land which is legally described and encumbered for use by another party or public entity for a specific purpose described in an easement document, recorded by Dakota County.
- W. <u>Erosion</u> The wearing away of the ground surface as a result of wind, flowing water, ice movement or land disturbing activities.
- X. <u>Erosion and Sediment Control Plan</u> A plan of BMPs or equivalent measures designed to control runoff and erosion and to retain or control sediment on land during the period of land disturbing activities with standards. Erosion and Sediment Control Plans are intended to be simpler plans illustrating or describing the placement of erosion and sediment control BMPs that do not require the detail of Stormwater Pollution Prevention Plans (SWPPPs) that are required under State permits.
- Y. <u>Excavation</u> The artificial removal of soil or other earth material.
- Z. <u>Fill</u> The deposit of soil or other earth materials by artificial means.
- AA. <u>Filtration</u> A process by which stormwater runoff is captured, temporarily stored, and routed through a filter bed, vegetated strip, or buffer to improve water quality and slow down stormwater runoff.
- BB. <u>Floodplain</u> The area adjacent to a waterbody that is inundated during a 100-year flood.
- CC. <u>Floodplain Storage</u> The volume of space available for flood waters within the floodplain.
- DD. <u>Fragmentation</u> The breaking up of an organism's habitat into discontinuous chunks.
- EE. <u>Grassed Waterway</u> A natural or constructed channel that is shaped or graded to required dimensions and established in suitable vegetation for the stable conveyance of runoff. (Minnesota NRCS Conservation Practice Standard Code 412, October 2017, as amended from time to time).
- FF. <u>Green Acres</u> Real property or real estate that qualifies as agricultural property having agricultural use under the Minnesota Agricultural Property Tax Law, Minnesota Statutes Section 273.111.
- GG. <u>Hydric Soil</u> A soil that formed under conditions of saturation, flooding or ponding long enough during the growing season to develop anaerobic conditions in the upper horizon.
- HH. <u>Hydrophytic Vegetation</u> Plant life growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content.
- II. <u>Industrial Use Development</u> The development of property for industrial use as identified by the Standard Industrial Classification (SIC) codes or the North American Industry Classification System (NAICS code).
- JJ. <u>Infiltration</u> A stormwater retention method for the purpose of reducing the volume of stormwater runoff by transmitting water into the ground through the earth's surface.
- KK. <u>Impervious Surface</u> A constructed hard surface that either prevents or retards the entry of water into the soil and causes water to run off the surface in greater quantities and at an increased rate of flow than prior to development. Examples include rooftops, sidewalks, patios, driveways, parking lots, storage areas, and concrete, asphalt, or gravel roads.

- LL. <u>Infrastructure</u> The system of public works for a county, state, or Local Government Unit, including, but not limited to, structures, roads, bridges, culverts, sidewalks, stormwater management facilities, conveyance systems and pipes, pump stations, sanitary sewers and interceptors, hydraulic structures, permanent erosion control and stream bank protection measures, water lines, gas lines, electrical lines and associated facilities, and phone lines and supporting facilities.
- MM. <u>Land Disturbing Activity (Land Disturbance)</u> —Any activity on property that results in a change or alteration in the existing ground cover (both vegetative and non-vegetative) and/or the existing soil topography. Land disturbing activities include, but are not limited to, development, redevelopment, demolition, construction, reconstruction, clearing, grading, filling, stockpiling, excavation and borrow pits. The use of land for new and continuing agricultural activities and routine vegetation management activities shall not constitute a land disturbing activity under this Ordinance. For example, clearing of trees for agricultural field crops or pasture, management of trees on woodlands or wooded lots, and natural area restoration activities would not constitute a land disturbing activity under these Standards.
- NN. <u>Landlocked Basin</u> A water basin one acre or more in size that does not have a natural outlet at or below the existing 100-year flood elevation as determined by the 100-year, 10-day snowmelt runoff event.
- OO. <u>Local Governmental Unit (LGU)</u> All cities, counties, and townships lying in whole or part within the Vermillion River Watershed.
- PP. <u>Lot</u> A parcel of land platted or described by metes and bounds, registered land survey, or other accepted means and separated from other parcels or portions by said description, for the purpose of sale, lease, or separation thereof, as recorded by Dakota County.
- RR. <u>Meander</u> A sinuous bend of a river, stream, or creek.
- SS. <u>Meander Belt</u> The area between lines drawn tangential to the extreme limits of fully developed meanders.
- TT. <u>Minimum Impact Alignment</u> Is the alignment for a proposed road, street, utility, path or access that creates the smallest area of impact to a buffer, waterway, or floodplain. For activities that cross a buffer, watercourse, or floodplain, the minimum impact alignment is one that crosses perpendicular, or near perpendicular, to the longitudinal orientation of the buffer, watercourse, or floodplain as reasonable to serve to intended purpose of the improvement.
- UU. MPCA Minnesota Pollution Control Agency.
- VV. Municipality A city or township.
- WW. <u>Native Vegetation</u> Plant species that are indigenous to Minnesota, or that expand their range into Minnesota without being intentionally or unintentionally introduced by human activity and are classified as native in documentation referenced by MN Rules 8420.0112.

- XX. <u>Natural Retention or Detention</u> Retention or detention storage of rainwater and runoff that occurs due to the natural landscape and is not artificially constructed.
- YY. <u>New Development</u> The construction of any public or private improvement project, infrastructure, structure, street or road that creates more than 1 acre of new or additional impervious surface or, the subdivision of land.
- ZZ. Noxious Weeds A noxious weed as defined in MN Rules 1505.0751.
- AAA. NPDES National Pollutant Discharge Elimination System.
- BBB. <u>NRCS</u> United States Department of Agriculture Natural Resource Conservation Service.
- CCC. Ordinary High Water Level (OHWL) The boundary of water basins, watercourses, public waters, and public waters wetlands as set by the Minnesota Department of Natural Resources.
- DDD. Outlot A parcel of land shown on a subdivision plat as an outlot, as designated by Dakota County, and designated alphanumerically, (for example Outlot A.). Outlots are used to designate one of the following: Land that is part of the subdivision but is to be subdivided into lots and blocks at a later date; land that is to be used for a specific purpose as designated in a developer's agreement or other agreement between the Local Governmental Unit and the developer; or for a public purpose that may have restricted uses such as a buffer.
- EEE. <u>Person</u> The word "person" includes individual, firm, company, corporation, partnership, trust and other legal entities.
- FFF. Plat The drawing or map of a subdivision prepared for filing of record pursuant to Minnesota Statutes Chapter 505.
- GGG. <u>Pre-development Condition</u> The land use on a site that existed in 2005.
- HHH. <u>Public Waters</u> Public Waters means water resources as defined in Minn. Stat. § 103G.005, subd. 15.
- III. <u>Public Waters Wetland</u> Any public waters wetland as defined in Minn. Stat. § 103G.005, subd. 15a.
- JJJ. <u>Recreational Use Development</u> Any development of land for recreational use, including but not limited to, parklands, sporting facilities, golf courses, and other commercial or public facilities designed and used to provide recreational opportunities to the public.
- KKK. Redevelopment The rebuilding, repair, or alteration of a structure, land surface, road or street, or facility that creates less than 1 acre of new impervious surface, and disturbs, replaces, or alters more than 1 acre of existing impervious surface. Note: for the purposes of this Ordinance, if an activity creates more than 1 acre of new or additional impervious surface, the activity is considered new development and exceptions in this Ordinance for redevelopment do not apply to the increased (new) impervious surface exceeding 1 acre.
- LLL. <u>Right-Of-Way (ROW)</u> A strip of land occupied or intended to be occupied by a street, railroad, electric transmission line, oil or gas pipeline, water main, sanitary or storm

- sewer main, or another special use, and dedicated to public use by the recording of the plat on which such right-of-way is established.
- MMM. <u>Runoff</u> Rainfall, snowmelt, irrigation, or otherwise discharged water flowing over the ground surface.
- NNN. <u>Rural Preserves</u> Class 2a or 2b property that had been assessed under Minnesota Statutes 2006, section 273.111, or that is part of an agricultural homestead under Minnesota Statues, section 273.13, subdivision 23, paragraph (a).
- OOO. <u>Sediment</u> Soil or other surficial material transported by surface water as a product of erosion.
- PPP. <u>Sedimentation</u> The process or action of depositing sediment.
- QQQ. <u>Sinuous</u> The curving patterns of a river, stream, or creek.
- RRR. <u>Soil</u> The unconsolidated mineral and organic material on the immediate surface of the earth. For the purposes of this Ordinance, stockpiles of sand, gravel, aggregate, concrete or bituminous materials are not considered "soil" stockpiles.
- SSS. <u>Stewardship Plan</u> A conservation plan completed for agricultural land and activities accepted by the Dakota County SWCD or the VRWJPO.
- TTT. Stormwater Under Minnesota Rule 7077.0105, subpart 41b, stormwater means "precipitation runoff, stormwater runoff, snow melt runoff, and any other surface runoff and drainage." According to the Federal Code of Regulations under 40 CFR 122.26 [b][13], stormwater means "stormwater runoff, snow melt runoff and surface and drainage." Stormwater does not include construction site dewatering.
- UUU. <u>Stream Type</u> One of numerous stream types based on morphology defined by Rosgen, D., 1996, *Applied River Morphology*.
- VVV. <u>Stormwater Pollution Prevention Plan (SWPPP)</u> A plan for stormwater discharge that includes erosion prevention measures and sediment controls that, when implemented, will decrease soil erosion on a parcel of land and decrease off-site nonpoint pollution.
- WWW.<u>Structure</u> Anything manufactured, constructed or erected which is normally attached to or positioned on land, including portable structures, earthen structures, water and storage systems, drainage facilities and parking lots.
- XXX. <u>Subdivision</u> The separation of an area, lot, or tract of land under single ownership into two or more parcels, tracts, or lots.
- YYY. <u>USDA</u> United States Department of Agriculture.
- ZZZ. VRWJPO Vermillion River Watershed Joint Powers Organization.
- AAAA. Watercourse Intermittent and perennial streams as shown on Map 1 attached to this Ordinance.
- BBBB. Wet Detention Facility A permanent man-made structure for the temporary storage of runoff that contains a permanent pool of water.
- CCCC. Wetland Any wetland as defined in Minn. Stat. § 103G.005, subd. 19.
- DDDD. Wetland Conservation Act (WCA) The Minnesota Wetland Conservation Act of 1991,

as amended.

EEEE. Wetland Type – A wetland type or type as defined by Minnesota Rules 8420.0111.

SECTION 5. EROSION AND SEDIMENT CONTROL

5.01 <u>Erosion and Sedimentation Control Plan</u>. No person shall commence a land disturbing activity meeting or exceeding the thresholds provided below, unless exempted, without submitting an Erosion and Sedimentation Control Plan to the Community Engineer or the Community Building Inspector. No building permit or land disturbing activity shall be authorized until the Community approves this plan. At a minimum the erosion prevention and sedimentation standards must conform with Best Management Practices (BMPs) defined in this Ordinance.

Criteria for requiring a permit with less than one (1) acre of disturbance are as follows:

- A. Land disturbing activities on slopes greater than six percent.
- B. Greater than 100 cubic yards of imported or stockpiled material.
- C. New public or private roads or driveways greater than 125 feet in length.
- D. Land disturbing activities greater than 10,000 square feet of land if commercial, industrial, or recreational use development.
- E. Filling, draining, or altering of natural or artificial stormwater storage, retention, or watercourses.
- F. Land disturbing activities located within 150 feet of wetlands identified on or adjacent to the land disturbing activities.
- G. Land disturbing activities that could reasonably be expected to deliver sediment to adjacent properties, wetlands, or water resources.

Exemptions for preparing an Erosion and Sedimentation Control Plan include the following:

- A. Minor land disturbing activities such as home gardens, repairs, and maintenance work.
- B. Construction, installation, and maintenance of individual sewage treatment systems, other than those on steep slopes (e.g., 6 percent or greater), or on riparian lots within a Shoreland District.
- C. Construction, installation, and maintenance of public utility lines or individual service connections unless the activity disturbs more than 1 acre, in which case the requirements in Section 5.02 apply.
- D. Installation of any fence, sign, telephone or electric poles, or other kinds of posts or poles.
- E. Emergency activity necessary to protect life or prevent substantial harm to persons or property.
- F. All maintenance, repair, resurfacing and reconditioning activities on impervious surfaces, which do not involve land-disturbing activities outside of the existing impervious surfaces.
- G. Construction of any structure on an individual lot in a subdivision with an approved

SWPPP, so long as any land disturbing and stormwater management activity complies with the approved plan.

- 5.02 <u>Stormwater Pollution Prevention Plan (SWPPP)</u>. No person shall commence a land disturbing activity one acre or more in area without submitting an SWPPP to the Community Engineer for review and approval. The applicant is required to obtain a National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) construction stormwater permit from the Minnesota Pollution Control Agency (MPCA). No building permit or land disturbing activity shall be authorized until the Community Engineer approves this plan and a permit is issued by the MPCA. The SWPPP shall contain all components required to meet the requirements of the NPDES General Construction Permit issued by the MPCA, August 1, 2018, as amended. All modifications or amendments to a SWPPP must be reviewed and approved by the Community Engineer and the MPCA.
- 5.03 <u>Construction Erosion and Sediment Control Criteria</u>. Land disturbances shall be governed by the following minimum construction erosion control standards:
 - A. Erosion and sediment control measures shall be consistent with Best Management Practices (BMPs) and shall be sufficient to retain sediment on site.
 - B. All temporary erosion and sediment controls shall be installed on all down gradient perimeters before commencing the land disturbing activity and left in place and maintained as needed until removed per Community approval after the site had been stabilized. All permanent erosion control measures shall be installed and operational per the design and as required by the Community prior to the removal of temporary controls.
 - C. Erosion and sediment controls shall meet the standards for the General Permit Authorization to Discharge Storm Water Associated With Construction Activity Under the National Pollutant Discharge Elimination System/State Disposal System Permit Program Permit MN R100001 (NPDES General Construction Permit) issued by the Minnesota Pollutant Control Agency, August 1, 2018, as amended for projects disturbing more than 1 acre.
 - D. Permanent cover of the site must be completed in accordance with the NPDES General Construction Permit requirements.
 - E. All on-site stormwater conveyance channels shall be designed and constructed to withstand the expected velocity of flow from a 10-year frequency storm without erosion.
 - F. If the activity creates more than 1 acre of disturbed area, and the activity is taking place on a site where soils are currently disturbed (e.g., a tilled agricultural site that is being developed), areas that will not be graded as part of the development and areas that will not be stabilized according to the timeframes specified in the NPDES General Construction permit Part IV.B.S, shall be seeded with a temporary or permanent cover before commencing the proposed land disturbing activity.

(Section 5.04 was added by the Rural Collaborative engineer in the 2010 version; these are good requirements but more detailed than what is in the VRWJPO Standards and therefore would be up to the Community to keep)

5.04 <u>Minimum Stormwater Pollution Prevention Measures and Related Inspections.</u> These minimum control measures are required where bare soil is exposed. Due to the diversity of

individual construction sites, each site will be individually evaluated. Where additional control measures are needed, they will be specified at the discretion of the Community Engineer. The Community Engineer reserves the right to receive comments from the Dakota County Soil and Water Conservation District (SWCD) or the VRWJPO. The Community will determine what action is necessary to prevent excessive erosion from occurring on the site. If the following conditions are not met as outlined below, the MPCA will be notified for lack of compliance, fines may be levied, and prosecution for non-compliance with this Ordinance will be pursued.

- A. All grading plans and building site surveys must be reviewed by the Community for effectiveness of erosion control measures in the context of the site topography and drainage.
- B. The stormwater pollution prevention plan's measures, the limit of disturbed surface and the location of buffer areas shall be marked on the approved grading plan, and identified with flags, stakes, signs etc. on the development site before work begins.
- C. Sediment control measures must be properly installed by the builder before construction activity begins. Such structures may be adjusted during dry weather to accommodate short-term activities, such as those that require the passage of very large vehicles. As soon as this activity is finished or before rainfall, the erosion and sediment control structures must be returned to the configuration specified by the Community. Sufficient erosion control structures must be in place before a footing inspection will be done.
- D. Diversion of channeled runoff around disturbed areas, if practical, or the protection of the channel.
- E. If a stormwater pollution prevention plan involves directing some or all of the site's runoff, the applicant or its designated representative shall obtain from adjacent property owners any necessary easements or other property interests concerning the flowing of such water.
- F. Land disturbing activities should be phased or scheduled to minimize the amount of exposed soil at any time to lessen the potential for erosion and sedimentation.
- G. Generally, sufficient silt fence or other sediment control device will be required to hold all sheet flow runoff generated at an individual site, until it can either infiltrate or seep through the device's pores.
- H. For soil stockpiles greater than 10 cubic yards the toe of the pile must be more than 25 feet from a road, drainage channel or stormwater inlet. If such stockpiles will be left for more than 7 days; they must be stabilized with mulch, vegetation, tarps or other means. If left for less than 7 days, erosion from stockpiles must be controlled with silt fences or rock check dams.
 - 1. If for any reason a soil stockpile of any size is located closer than 25 feet from a road, drainage channel or stormwater inlet, and will be left for more than 7 days, it must be covered with tarps or controlled in some other manner
- I. All sand, gravel or other mining operations taking place on the development site shall have a National Pollutant Discharge Elimination System General Stormwater permit for industrial activities and all required Minnesota Department of Natural Resources permits.
- J. Temporary rock construction entrances will be required wherever vehicles enter and exit a site, according to specifications required by the Community Engineer. Slash mulch, 4"-

- 10", may be used in lieu of rock if approved by the Community Engineer.
- K. Parking is prohibited on all bare lots and all temporary construction entrances, except where street parking is not available.
- L. Streets must be cleaned and swept whenever tracking of sediments occurs and before sites are left idle for weekends and holidays. Regular sweeping must occur on paved roads at least once a week, unless notified by the Community, in which case sweeping will need to occur within 24 hours of being notified by the Community.
- M. Water (impacted by the construction activity) removed from the site by pumping must be treated by temporary sedimentation basins, geotextile filters, grit chambers, sand filters, up-flow chambers, hydro-cyclones, swirl concentrators or other appropriate controls. Such water shall not be discharged in a manner that causes erosion or flooding of the site, receiving channels, adjacent property or a wetland.
- N. Catch Basins and sediment ponds must be cleaned prior to acceptance by the Community.
- O. Roof drain leaders. All newly constructed and reconstructed buildings must route roof drain leaders to pervious areas (not natural wetlands) where the runoff can infiltrate. The discharge rate shall be controlled so that no erosion occurs in the pervious areas.
- P. At a minimum, SWPPP inspections shall be done weekly and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours by the applicant or the applicant's representative in accordance with the MPCA permit for sites that disturb 1 acre or more of land.
- Q. Follow-up inspections must be performed by the Community on a regular basis to ensure that erosion and sediment control measures are properly installed and maintained. In all cases the inspectors will attempt to work with the developer and/or builder to maintain proper erosion and sediment control at all sites.
 - 1. In cases where cooperation is withheld, construction stop orders may be issued by the Community, until erosion and sediment control measures meet specifications. A second erosion and sediment control/grading inspection must then be scheduled and passed before the final inspection will be done.
- R. The NPDES permittee shall inspect all stormwater management facilities during construction in accordance with the NPDES permit requirements. A copy of the inspection records shall be given to the Community.

5.05 Required Submittals

- A. Erosion and Sediment Control Plan. Project plans shall include the following:
 - 1. Project site plan, construction sketch, or aerial photo information showing the extent of the project proposed for a property or properties. This should include all proposed structures, accesses, impervious surfaces, and areas where grading and construction activities are to occur.
 - 2. Proposed erosion and sediment control measures for how soil loss will be mitigated from the site. In the absence of this information, the proposed control measures can be provided as markups and comments by Community representatives or the Community Engineer that instruct the landowner/project applicant what is required for construction.

- 3. Notes or descriptions on how the disturbed area will be stabilized with seeding, landscaping, etc. to ensure that bare soils are no longer present after completion. For agricultural areas, returning to cropland is acceptable for final stabilization/cover.
- B. Stormwater Pollution Prevention Plan. Project site plans including a SWPPP that shall contain all components required to meet the requirements of the NPDES General Construction Permit issued by the MPCA, August 1, 2018, as amended.

SECTION 6. STORMWATER MANAGEMENT

- 6.01 <u>Application of Ordinance.</u> No person or political subdivision shall commence a land disturbing activity for "new development" or "redevelopment" (per Section 4: Definitions, ZZ. or KKK.), unless specifically exempted below, without first obtaining a permit from the Community incorporates and approves a SWPPP and the stormwater management requirements below.
- 6.02 <u>Post Construction Water Quality Criteria</u>. Land disturbances shall be governed by the following minimum post construction water quality standards:
 - A. Post construction stormwater runoff quality measures shall meet the standard for the General Permit Authorization to Discharge Storm Water Associated With Construction Activity Under the National Pollutant Discharge Elimination System/State Disposal System Permit Program Permit MN R100001 (NPDES General Construction Permit) issued by the Minnesota Pollution Control Agency, June 25, 2018, as amended; except where more specific requirements are provided in paragraphs B, C, D, and E below.
 - B. Infiltration/filtration options described under Runoff Volume Control Standard B, are the preferred approach to satisfying the water quality treatment requirements of the NPDES General Construction Permit in areas that drain to the trout stream portions of the Vermillion River and its tributaries where such areas do not first drain to a waterbody with 10 or more acres of open water.
 - C. Ponds with permanent wet pools are allowed in areas tributary to the trout stream portions of the Vermillion River and its tributaries where such areas do not first drain to a waterbody with 10 or more acres of open water, if the applicant demonstrates:
 - 1. No net increase in the temperature of the discharge for the 2-year 24-hour event with the use of alternative technologies and has met the Volume Control requirements of these Standards; or
 - 2. That the wet pond is designed for zero discharge for the 2-year, 24-hour storm; or
 - 3. That the Volume Control requirements of these Standards are met and the following measures are used to the extent practical in order of decreasing preference:
 - a. The wet pond is designed with a combination of measures such as shading, filtered bottom withdrawal, vegetated swale discharges, or constructed wetland treatment cells that will limit temperature increases.
 - b. Additional volume control measures and credits are used beyond that required to meet the Runoff Volume Standards as a means of limiting the frequency and duration of discharges from the pond.
 - D. The water quality control volumes necessary to meet the NPDES General Construction Permit that are satisfied using infiltration or filtration technologies (filtration only on

- Type C and D soils) can count toward the Volume Control requirements of this Ordinance.
- E. Ponds with overflows or outlets located below the seasonally high water table are allowed only where it can be demonstrated that there is a reasonable need for such an outlet to control seepage damage to existing structures.
- F. Redevelopment projects are required to incorporate water quality BMPs to the extent practical.
- 6.03 <u>Runoff Temperature Control Criteria</u>. Land disturbances shall be governed by the following minimum runoff temperature control standards:
 - A. Post construction runoff criteria for controlling temperature increases relies on the establishment of buffers as specified in Section 8; the prioritization of temperature sensitive BMPs such as infiltration and filtration, and the designation of temperature sensitive wet pond design approaches in the Post Construction Water Standards above; and the control of runoff volume increases and the use of credits with the Runoff Volume Control Standards below. No additional specific temperature criteria are incorporated since these standards emphasize approaches sensitive to runoff temperature. However, since these other standards allow flexibility, and in some cases waivers, permit applications involving the creation of one or more acres of new impervious surface in the trout stream portions of the Vermillion River and its tributaries, where such areas do not first drain to a waterbody with 10 or more acres of open water:
 - 1. Must include a narrative description of the temperature sensitive practices incorporated.
 - 2. The Community may limit or deny waivers, or may require additional runoff temperature BMPs, if the Community or the VRWJPO finds that the site design does not minimize the potential for runoff temperature increases.
- 6.04 <u>Peak Runoff Rate Control Criteria</u>. Land disturbances shall be governed by the following minimum runoff rate control standards:
 - A. A hydrograph method based on sound hydrologic theory will be used to analyze runoff for the design or analysis of flows and water levels. Modeling shall use the current applicable modeling standards (e.g., Atlas-14 for precipitation amounts, as amended or replaced).
 - B. Runoff rates for proposed activities, and development shall
 - 1. Apply land cover conditions existing in 2005 as the baseline for existing conditions in runoff calculations.
 - 2. Not exceed existing runoff rates for the 1-year, 10-year, and 100-year critical duration storm events.
 - 3. Be implemented such that peak runoff rate controls keep future peak flood flows for the Vermillion River 100-year, 4-day event from increasing above existing conditions peak flows.
 - 4. Not exceed the existing rate for the VRWJPO Intercommunity Flow study goal flow value for the Community.
 - C. Detention basins with permanent wet pools are allowed in area's tributary to the trout

stream portions of the Vermillion River provided Post Construction Water Quality Standard 5.04 C. above is met.

- 6.05 <u>Runoff Volume Control Criteria</u>. Land disturbances shall be governed by the following minimum runoff volume control standards:
 - A. New development must incorporate volume control practices into the design sufficient to prevent an increase in the runoff volume for the 2-year 24-hour storm above predevelopment conditions, unless waived in accordance with Runoff Volume Control Standard G. below. Determination of the necessary control volume to achieve this standard shall be calculated on a site-by-site basis for each individual proposal.
 - B. The water quality control volumes necessary to meet the NPDES General Construction Permit that are satisfied using infiltration or filtration technologies (filtration only on Type C and D soils) can count toward the Volume Control requirements of this Ordinance.
 - C. When using infiltration for volume control, infiltration volumes and facility sizes shall be calculated using appropriate site information and applying design criteria from the Minnesota Stormwater Manual.
 - D. Constructed infiltration facilities, such as infiltration basins and trenches:
 - 1. Can only be used if there is pretreatment of stormwater runoff designed to protect the infiltration system from clogging with sediment and to protect groundwater quality,
 - 2. Cannot be used within 400 feet of a municipal or other community supply well or within 100 feet of a private well unless specifically allowed by an approved wellhead protection plan,
 - 3. Cannot be used for runoff from fueling and vehicle maintenance areas and industrial areas with exposed significant materials,
 - 4. Cannot be used on areas with less than 3 feet vertical separation from the bottom of the infiltration system and the seasonal high ground water table, and
 - 5. Cannot be used in Type D soils.
 - E. Infiltration areas must be fenced or otherwise protected from disturbance before the land disturbing activity starts.
 - F. Volume control amounts may be waived by the Community for sites with predominately Type C and D soils, or where a shallow water table prevents construction of infiltration systems, provided the following are met in order of decreasing preference:
 - 1. Infiltration volumes and facility sizes shall be calculated using appropriate site information and applying design criteria from the Minnesota Stormwater Manual.
 - 2. Underdrains are used to promote filtration instead of infiltration.
 - G. Vegetation used in conjunction with infiltration systems must be tolerant of urban pollutants, and the range of soil moisture conditions anticipated.

(Sections 6.06-6.07 were added by the Rural Collaborative engineer in the 2010 version; these are good requirements but more detailed than what is in the VRWJPO Standards and therefore would be up to the Community to keep)

6.06 Minimum Design Standards for Stormwater Drainage Facilities. Stormwater drainage

facilities shall be designed to convey the flow of surface waters without damage to persons or property. The system shall insure drainage at all points along streets and provide positive drainage away from buildings. Drainage plans shall be consistent with local and regional drainage plans. The facilities shall be designed to protect against surface erosion and siltation of surface water, and to prevent the discharge of excess runoff onto adjacent properties.

- A. All storm sewer shall be designed to convey the 10-year critical duration storm event according to methods of accepted engineering practice subject to approval by the Community Engineer.
- B. A map identifying all of the individual drainage areas, and storm sewer design sheets identifying drainage area, runoff coefficient, time of concentration, intensity, runoff, slope, diameter, length, and capacity of the pipe, velocity within the pipe and invert elevations shall be submitted with the plans. All normal and high water levels of existing and proposed stormwater ponds, wetlands, lakes, streams and rivers shall be included on the plans.
- C. If required by the Community Engineer, 100-feet of 4-inch perforated drain tile shall be installed at all low point catch basins located within Community right-of-way. The drain tile shall be connected to proposed storm sewer facilities.
- D. Catch basins shall have a minimum depth of 3.5-feet.
- E. All stormwater pollution control management facilities must be designed to minimize the need for maintenance, to provide easy vehicle and personnel access for maintenance purposes and be structurally sound. These facilities must have a plan of operation and maintenance that ensures continued effective removal of the pollutants carried in stormwater runoff. It shall be the responsibility of the applicant to obtain any necessary easements or other property interests to allow access to the stormwater management facilities for inspection and maintenance purpose.
- 6.07 <u>Minimum Design Standards for Stormwater Wet Detention Facilities.</u> All stormwater detention basins that do not discharge directly into the Vermillion River or its tributaries shall be designed in accordance with the Walker Method for Wet Detention Basins. The following standards shall be utilized.
 - A. The permanent pool shall be equal to or greater than the runoff from a 2.5-inch rainfall for fully developed watershed conditions.
 - B. The average pond depth obtained by dividing the permanent pool volume by the permanent pool area shall be a minimum of 3 feet.
 - C. Side slopes shall be a maximum of 3:1 above the normal water level (NWL) and a maximum of 3:1 below the NWL with a 10:1 bench located below the NWL.
 - D. Pond inlets and outlets shall be located so as not to encourage plug flow.
 - E. A 20-foot minimum easement adjacent to a public road shall be provided to all ponds so Community maintenance crews have access to the pond.
 - F. Concrete outlet structures shall be provided for all stormwater basins in accordance with Community standards or a standard approved by the Community Engineer.
 - G. The lowest opening for all structures adjacent to stormwater ponds, wetlands, lakes or other water ways shall be at least 3 feet above the 100-year high water elevation.

- H. The lowest opening in any structure adjacent to stormwater ponds, wetlands, lakes or other water ways shall be at least 2 feet above the emergency overflow elevation. A minimum freeboard of 1 foot is required between the 100-year flood elevation and the emergency overflow elevation.
- I. The minimum floor elevation for all structures adjacent to land-locked stormwater ponds, wetlands, lakes or other water ways shall be at least 2 feet above the back to back 100-year flood elevation.
- J. A phasing plan for the construction of new and/or temporary detention basins shall be submitted to the Community Engineer for approval. Detention basins shall be constructed prior to other construction. The detention basins shall be cleared of sediment by the contractor at the end of the project. Infiltration basins shall not be constructed until the end of the project to eliminate unnecessary compaction of the soils.
- 6.08 <u>Permanent Maintenance of Stormwater Facilities</u>. All stormwater management structures and facilities shall be maintained in perpetuity to assure that the structures and facilities function as originally designed. The responsibility for maintenance shall be assumed either by the city, township, or county with jurisdiction over the structures and facilities; or by the applicant, their successors, or assigns entering into a maintenance agreement with the Community.
- 6.09 <u>Stormwater Easements and Covenants</u>. The applicant for stormwater permits shall establish, in a form acceptable to the Community, temporary and permanent drainage and utility easements, or dedicated outlots, for ponding, flowage, and drainage purposes over hydrologic features such as waterbodies and public stormwater basins. The easements, or outlots, shall include the right of reasonable access for inspection, monitoring, maintenance, and enforcement purposes. The Community may require that the land be subjected to restrictive covenants or a conservation easement or other easement, in form acceptable to the Community, to prevent the future expansion of impervious surface and the loss of infiltration capacity.
- 6.10 <u>Waivers</u>. The Community may waive on-site runoff rate, water quality, and runoff volume standards, consistent with the Collaborative Local Water Management Plan, and provided the off-site stormwater facilities are capable of meeting the other requirements in this Section.
- 6.11 <u>Trading</u>. Consistent with criteria established by or approved by the VRWJPO, the Community may consider off-site pollutant trading on a case-by-case basis. Any proposed trade must document conditions whereby the proposed offsite facility or practice provides a benefit that directly offsets any potential pollutant increase to the stream resulting from the proposed development. The responsibility for maintenance shall be addressed according to Section 8.4 of these standards. Any proposed off-site trade must be approved by the VRWJPO before implementation.
- 6.12 <u>Required Submittals</u>. All construction activities required to meet Stormwater Management requirements shall submit a stormwater management memo or plan that covers the following design components at a minimum:
 - A. The following additional information shall be submitted along with the SWPPP.
 - 1. Drainage maps for the existing and proposed conditions.

- 2. A detailed breakdown of existing and proposed curve numbers.
- 3. Map identifying soil types.
- 4. A drainage report, certified by a professional engineer, identifying existing and proposed peak runoff rates and volumes flowing off-site to adjacent watersheds for the 2, 10 and 100-year events.
- 5. All calculations and information used in determining peak discharge rates and volumes utilizing the Soil Conservation Service TR-55/TR-20, or other approved programs/models.
- 6. First floor and lowest opening elevations for all existing and proposed buildings.
- 7. Delineation of existing wetlands, as defined in the Wetland Conservation Act.
- 8. Lakes, streams, shoreland and floodplains shall also be shown on the plans.
- 9. Locations of the normal and high water elevations for all water bodies on the plans.
- 10. Locations of any well locations within 500 feet of the site.
- 11. Additional details required in the VRWJPO Rules for any land disturbance required to be referred to the VRWJPO for review.

SECTION 7. WETLAND MANAGEMENT

- 7.01 <u>Wetland Alteration Approval Required</u>. No person or political subdivision shall drain, fill, excavate, or otherwise alter a wetland or public waters wetland without completing a wetland application provided by the Minnesota Board of Water and Soil Resources (BWSR), consistent with the requirements of the Wetland Conservation Act (WCA). The application may be referred to the technical evaluation panel appointed by the Community, BWSR, and the Dakota County SWCD for technical findings and recommendations prior to any action on the application by the Community. The Community is the LGU for all WCA review and permitting.
- Wetland Determinations and Delineations. The Community shall refer to all maps and resources available in determining whether a land disturbing activity may impact a wetland. The Community has the authority and responsibility to carefully evaluate all potential wetland impacts. In instances when a potential wetland area is not illustrated on any maps or other resources and its existence is questioned, the Community shall contact the Dakota County SWCD and request a determination as to whether a wetland may in fact exist. If the SWCD determines that a wetland may exist, the Community shall require the person proposing the land disturbing activity to conduct a field evaluation and delineation of the potential wetland. The SWCD shall approve the evaluation and delineation. The Community shall reimburse the SWCD for its determination and evaluations, according to fees established by the SWCD. Nothing shall prevent the Community from requiring the person engaged in a land disturbing activity to reimburse the Community for its out-of-pocket expenses incurred in the wetland determination and delineation procedure.
- 7.03 <u>Wetland Management Priorities</u>. The Community establishes the following priorities in managing wetlands:
 - A. Work to achieve no net loss of wetlands.
 - B. Replace lost wetlands in the same subwatershed whenever possible.
 - C. Provide equal or greater functions and values for lost wetlands at the replacement ratios dictated by the WCA.

- D. Avoid direct or indirect wetland disturbance in accordance with State and Federal requirements and approved local wetland management plans.
- E. Limit the use of high-quality wetlands for stormwater management where other alternatives exist.
- F. Prevent direct discharge of stormwater runoff facilities into wetlands.
- G. Avoid fragmentation of natural areas and corridors when feasible and mitigate when unavoidable.

7.04 Wetland Alteration/Mitigation Standards.

- A. Any drainage, filling, excavation, or other alteration of a public waters wetland or wetland shall be conducted in compliance with Minnesota Statutes Section 103G.245, the WCA, Minnesota Rule Chapter 8420, Minnesota Rule Chapter 7050.0186, and regulations established herein.
- B. In order to preserve WCA exemption or no loss determination, projects involving excavation in Types 1, 2, 6, and 7 wetlands must demonstrate a beneficial purpose, such as habitat or water quality improvements, and minimize loss of wetland function as determined by the LGU.
- C. A high quality (or equivalent value) public waters wetland or wetland, as determined using the Minnesota Routine Assessment Method (MNRAM 3.0 as amended) or other state accepted functional assessment method for vegetative diversity, may not be used for stormwater management and treatment unless the use will not adversely affect the function and public value of the wetland and other alternatives do not exist.
- D. Wetland replacement/mitigation siting must follow the priority order below:
 - 1. Mitigation on-site.
 - 2. Mitigation within the same minor subwatershed as established by the Minnesota Department of Natural Resources for the "1979 Watershed Mapping Project" pursuant to Minnesota Laws 1977, chapter 455, section33, subdivision 7, paragraph (a).
 - 3. Mitigation within the VRWJPO boundary.
 - 4. Mitigation within Dakota County.
- E. Transportation projects shall pursue wetland mitigation projects to the extent practical using the standards above; however, this does not preclude the use of the BWSR Replacement Program.
- F. When seeking to achieve wetland mitigation through the acquisition of wetland credits through Wetland Banking (Minnesota Rules part 8420.0522), replacement credits are required to occur within the Vermillion River Watershed for wetland impacts occurring in the Vermillion River Watershed as long as there are wetland bank replacement credits available from a wetland bank within the Vermillion River Watershed.
- 7.05 <u>Required Submittals</u>. When wetlands are present on a new development or redevelopment site, the following information shall be submitted to the community:
 - A. Maps showing delineated boundaries of wetlands located on or adjacent to the subject property. Boundaries shall be established by a field wetland delineation in accordance

- with Wetland Conservation Act (WCA) approved methods. In some cases, particularly those where wetlands are intended to be avoided, the WCA LGU may be able to work with a contracted partner (e.g., the Dakota SWCD) to delineate the wetland boundaries based on a field visit or available mapping data.
- B. Construction plans showing the project boundaries and location of the project relative to on-site wetlands.
- C. For sites with impacts to wetlands, submittals needed to satisfy the needs of the WCA permit program will be required by the Community. This includes, but is not limited to, a full "Joint Application for Activities Affecting Water Resources in Minnesota" and complete wetland delineation reports.

SECTION 8. WETLAND AND WATERWAY BUFFERS

- 8.01 <u>Wetland and Waterway Protection</u>. It is a stated purpose of this Ordinance to protect and preserve the function and value of water resources in the Community. The provisions of this Section identify requirements for land preservation adjacent to wetlands and waterways for the purpose of protecting the function and value of water resources.
- - A. A division of land exempt from local subdivision regulation as defined in Minnesota Statutes.
 - B. A court-ordered division of land that precludes the Community from establishing these regulations.
 - C. A division of land, where the resulting lots qualify for Green Acres or Rural Preserves agricultural tax classification.
 - D. An authorized division of land enrolled in an Agricultural Preserve.
- 8.04 Wetland Buffer Criteria and Dimensions. For all wetlands and public waters wetlands requiring buffers according to this Ordinance, a wetlands delineation shall be required and a wetlands functional assessment using the Minnesota Routine Assessment Method (MNRAM 3.0 as amended) or other state accepted functional assessment method for vegetative diversity shall be completed by the person required to establish the buffer, unless such assessment has been completed by the Dakota County SWCD. The functional assessment shall be consistent with standards established or recommended by the SWCD. Buffer dimensions shall be established, based on the value of wetlands, identified as follows:

Buffer Dimension	Exceptional Quality (Preserve)	High Quality (Manage 1)	Medium Quality (Manage 2)	Low Quality (Manage 3)
Average Width	50 feet	40 feet	30 feet	25 feet
Minimum Width	30 feet	30 feet	25 feet	16.5 feet

8.05 <u>Major Waterways Buffer Criteria and Dimensions</u>. Major Waterways in the Community are identified by the VRWJPO, as illustrated on Map 1, October 26, 2006, attached to this Ordinance as Appendix A. At any point in time that Map 1 is updated and formally adopted by the VRWJPO, and the updated map of Major Waterways is formally transmitted to the Community by the VRWJPO, the Community shall replace Map 1 with the updated map. For all Major Waterways requiring buffers according to this Ordinance, required buffers shall meet the following dimensions, based upon the following classifications of the waterways:

Waterway Classification	Buffer Dimensions and Standards		
	Lower Reach (Vermillion River downstream		
Conservation Corridor	of Biscayne Avenue): 150-feet average, 100-		
	feet minimum, measured from the edge of		
	the meander belt of the river		
	Upper Reach (Vermillion River upstream of		
Conservation Corridor	Biscayne Avenue and South Branch		
Conservation Corridor	Vermillion River): 150-feet average, 100-feet		
	minimum, measured from the edge of the		
	meander belt of the river		
Aquatic Corridor Principal Connector	100-feet average, 65 feet minimum, measured		
	from the edge of the meander belt of the river		
Aquatic Corridor Principal Connector	100-feet minimum, no averaging, measured from		
with Trout Stream Designation	the edge of the meander belt of the river		
Aquatia Carridar Tributary	50-feet average, 35-feet minimum: plus 2 feet		
Aquatic Corridor Tributary Connector	for every 1 percent of slope,		
Connector			
	30-feet average, 20-feet minimum where there is a flow path for concentrated surface runoff,		
Water Quality Corridor	measured from the center line of the flow path		
	measured from the center line of the flow path		

8.06 <u>Buffer Standards</u>. The following standards shall apply to all buffers established in this Section.

- A. Where acceptable natural vegetation exists in buffer areas, the retention of such vegetation in an undisturbed state is required unless approval to replace such vegetation is received. A buffer has acceptable vegetation if it:
 - 1. Has a continuous, dense layer of perennial grasses that has been uncultivated or

- unbroken for at least 5 consecutive years, or
- 2. Has an overstory of trees and/or shrubs that has been uncultivated or unbroken for at least 5 consecutive years, or
- 3. Contains a mixture of the plant communities in 1 and 2 above that has been uncultivated or unbroken for at least 5 years.
- B. Buffers shall be staked and protected in the field prior to construction unless the vegetation and the condition of the buffer are considered inadequate. Existing conditions vegetation will be considered unacceptable if:
 - 1. Physical condition of the buffer tends to channelize the flow of surface water, or
 - 2. Vegetative cover is less than 90%.
- C. Where buffer vegetation and conditions are unacceptable, or where approval has been obtained to replant, buffers shall be replanted and maintained according to the following standards:
 - 1. Buffers shall be planted with a native seed mix approved by the State of Minnesota, NRCS, or the Dakota SWCD, with the exception of a one-time planting with an annual nurse or cover crop. Plantings of native forbs and grasses may be substituted for seeding. All substitutions must be approved by the Community. Groupings/clusters of native trees and shrubs, of species and at densities appropriate to site conditions, shall also be planted throughout the buffer area.
 - The seed mix and planting shall be broadcast/installed according to State of Minnesota, NRCS, or Dakota SWCD specifications. The selected seed mixes and plantings for permanent cover shall be appropriate for the soil site conditions and free of invasive species.
 - 3. Buffer vegetation (both natural and created) shall be protected by erosion and sediment control measures during construction.
 - 4. During the first five full growing seasons, except where the Community has determined vegetation establishment is acceptable, the owner or applicant must replant buffer vegetation where the vegetative cover is less than 90%. The owner or applicant must assure reseeding or replanting if the buffer changes at any time through human intervention or activities.
- D. Where a buffer is required, the Community shall require the protection of the buffer under a conservation easement, or include the buffer in a dedicated outlot as part of platting and subdivision approval, except where the buffer is located in a public transportation right-of-way. Buffers shall also be monumented to clearly designate the boundaries of all new buffers within new residential subdivisions. A monument shall consist of a post and a buffer strip sign approved by the LGU.
- E. Alterations, including building, storage, paving, routine mowing, burning, plowing, introduction of noxious vegetation, cutting, dredging, filling, mining, dumping, grazing livestock, agricultural production, yard waste disposal, or fertilizer application are prohibited within any buffer. Periodic mowing or burning, or the use of fertilizers and pesticides for the purpose of managing and maintaining native vegetation is allowed with approval of the Community. Noxious weeds may be removed and mechanical or spot herbicide treatments may be used to control noxious weeds, but aerial or broadcast spraying is not acceptable. Prohibited alterations would not include plantings that enhance the natural vegetation or selective clearing or pruning of trees or vegetation that

- are dead, diseased or pose similar hazards, or as otherwise clarified in Standard F.
- F. The following activities shall be permitted within any buffer, and shall not constitute prohibited alterations:
 - 1. The following activities are allowed within both the minimum and average buffer width areas:
 - a. Use and maintenance of an unimproved access strip through the buffer, not more than 10 feet in width, for recreational access to the major waterway or wetland and the exercise of riparian rights.
 - b. Structures that exist when the buffer is created.
 - c. Placement, maintenance, repair, or replacement of public roads and utility and drainage systems that exist on creation of the buffer or are required to comply with any subdivision approval or building permit obtained from the Community, so long as any adverse impacts of public road, utility, or drainage systems on the function of the buffer have been avoided or minimized to the extent practical.
 - d. Clearing, grading, and seeding is allowed if part of an approved Wetland Replacement Plan, or approved Stream Restoration Plan.
 - e. A multipurpose trail through an area protected by conservation easement or in a dedicated outlot is allowed, provided it is designed and constructed to minimize erosion and new impervious surfaces, maintains an absolute minimum distance of at least fifteen feet as measured from the edge of the trail nearest the water resource to the wetland or public waters wetland edge, the bank of the watercourse, or the meander belt, and averages at least one-half the total VRWJPO identified buffer width. Where needed to cross the watercourse, the minimum impact alignment shall be used. The area between the trail and the water resource must be maintained in perennial vegetation in an undisturbed state excepting regular required maintenance of the buffer. Boardwalks and pedestrian bridges associated with a multipurpose trail must be approved by the Community or the VRWJPO.
 - f. The construction of underground utilities such as water, stormwater, and sanitary sewers and pipelines provided the minimum impact alignment is used, the area is stabilized in accordance with Standard 8.06B above, and setbacks established in the Floodplain Alterations Standard 9.03D are met.
 - 2. The following activities are allowed within those portions of the average buffer width that exceed the minimum buffer width:
 - a. Stormwater management facilities, provided the land areas are stabilized in accordance with Standard 8.06B above, and alterations prohibited in Standard 8.06E above are upheld.
 - b. The area of shallow vegetated infiltration and biofiltration facilities, and water quality ponds not to exceed 50 percent of the pond area, adjacent to wetlands and major waterways may be included in buffer averaging provided the facilities do not encroach into the minimum buffer width, and the land areas are stabilized in accordance with Standard 8.06C above, and alterations prohibited in Standard 8.06E above are upheld.

8.07 <u>Exceptions</u>.

A. The Buffer Standards do not apply to any wetland or public waters wetland with an

- applicable exemption listed under the WCA, and to those portions of wetlands that will be filled under approved wetland replacement plans per the WCA.
- B. Community Comprehensive Wetland Management Plans which prescribe required buffer widths shall be compliant with standards set by the VRWJPO; applicable ordinances governing widths, restrictions, allowable uses, and monumentation must meet or exceed the requirements set by the VRWJPO.
- C. The Buffer Standards for Water Quality Corridors do not apply to lots of record as of the date of the published VRWJPO Rules, October 8, 2007, that are less than one acre in size.
- D. The Buffer Standards do not apply to existing outlots that received preliminary plat approval in the two year period (or more if the preliminary plat approval was extended by the Community) preceding the date of the published VRWJPO Rules, October 8, 2007.
- E. Where a stream meandering project has been completed, the buffer width shall be established by the Community and shall be no less than the minimum.
- F. The Buffer Standards do not apply to lots created that are enrolled in Green Acres, Rural Preserves, Agricultural Preserves, or similar agricultural or rural preservation programs controlling or limiting the potential for future lot subdivision or development, as part of the subdivision process. In areas where land use zoning provides for agricultural zoning with one building eligibility per every quarter of a quarter section (40 acres) of property, the buffer requirement will not be exercised until such time as the land use zoning is changed to an alternate use zoning or a higher density of residential building eligibilities. At that time, the buffer requirement will be fully implemented. For all properties seeking a permit under this exemption, the permit will require that structure setbacks are met which allow the future implementation of the buffer requirement with no impact to permanent structural elements. This exemption does not include transfer of building eligibilities for purposes of clustering.
- 8.08 <u>Required Submittals</u>. When buffers are established as required in Section 8.02, the following information shall be submitted to the community:
 - A. Construction plans and specifications showing the delineated wetland edge, buffer strip location(s), the location of buffer monuments and the location of any temporary fencing required.
 - B. A narrative description of each buffer strip identifying its current condition.
 - C. A legal description and drawing of each buffer strip, signed forms for conservation easements; or record of an administrative land split, preliminary plat or final plat demonstrating that the buffer area is contained in a dedicated outlot.
 - D. A landscaping and vegetation management plan according to Criteria 3 below, including a compliance monitoring and certification plan and a cost estimate, for buffer strips with unacceptable vegetation as defined by Criteria 2 below or where grading in a buffer strip is proposed.

SECTION 9. FLOODPLAIN ALTERATION

9.01 <u>Floodplain Alteration Approval Required</u>. No person or political subdivision shall alter or fill land, or build a structure or infrastructure below the 100-year base flood elevation of any major waterway, public waters, public waters wetland, or other wetland without first obtaining a

permit from the Community or Dakota County, acting as the LGU. Where Dakota County has floodplain management jurisdiction, the provisions of this Section and Dakota County Ordinance No. 50 Shoreland and Floodplain Management Ordinance shall apply.

- 9.02 <u>Floodplain Management Priorities</u>. The Community establishes the following priorities in managing floodplains:
 - A. Protect the natural function of the floodplain storage areas from encroachment.
 - B. Manage floodplains to maintain critical 100-year storage volumes.
 - C. Limit floodplain alterations in order to obtain "no net loss" of floodplain storage, including the preservation, restoration, and management of floodplain wetlands.
 - D. Require compensatory storage for new developments within the floodplain.
- 9.03 <u>Floodplain Management Standards</u>. Land disturbing activities in or near the 100-year critical flood elevation shall be subject to the following standards.
 - A. Floodplain alteration or filling shall not cause a net decrease in flood storage capacity below the projected 100-year critical flood elevation unless it is shown that the proposed alteration or filling, together with the alteration or filling of all other land on the affected reach of the waterbody to the same degree of encroachment as proposed by the applicant, will not cause high water or aggravate flooding on other land and will not unduly restrict flood flows.
 - B. Where 100-year flood critical elevations have been established, all new structures shall be constructed with the low floor consistent with the minimum elevations as specified in State of Minn. R. Ch. 6120 Shoreland and Floodplain Management, and Dakota County Ordinance No. 50 Shoreland and Floodplain Ordinance, as applicable.
 - C. Projects involving development, redevelopment, or the subdivision of land, shall establish flood storage, flowage, and drainage easements over areas below the 100-year critical flood elevation of any public water, public waters wetland, or wetland.
 - D. Setbacks for floodplain alterations, fill, and new underground utilities, such as water, sanitary and storm sewers and interceptors, gas lines, phone lines, and pipelines; shall be established and used along major waterways. These setbacks shall be established as follows: (the exception is for utilities that need to reach or cross the major waterway, provided the minimum impact alignment is used)
 - 1. Where a major waterway has a sinuous flow pattern and a meander belt can be identified, the setback for new underground utilities shall be setback 15 feet from the outer edge of the meander belt.
 - 2. Where a sinuous flow pattern and meander belt are not readily identifiable because of past channel alterations and/or the geomorphology of the channel, the setback established for new underground utilities shall provide for the potential for restoration and a sinuous flow pattern as follows:
 - a. Where there are existing encroachments that limit full restoration of the stream to the meander widths appropriate for the stream type, the setback shall be 15 feet from the reasonably achievable restoration width for the meander belt given the

- existing encroachments.
- b. Where full restoration is possible, the setback shall be 15 feet from a meander belt width established along the stream reach that has a width 10 times the bankfull channel width. An assessment of the stream type may be completed, and meander belt widths established according to the stream type, in place of using the above 10x formula. Note: the 1999 Vermillion River Assessment Report, as amended, available at the Dakota County SWCD or the Dakota County offices of the VRWJPO, provides assessment of stream type for many reaches of the Vermillion River.
- 3. Where buffers are required, above ground encroachments, alterations, and fill shall be consistent with the prohibited and allowed uses and widths specified in the Buffer Standard.
- E. Projects that alter floodplain boundaries, such as bridge crossings and regional ponds that increase upstream high water levels are allowed provided that:
 - 1. The applicant submits easements or other documentation in a form acceptable to the LGU or the VRWJPO demonstrating and recording the consent of the owner of any land affected by the increased high water levels,
 - 2. The action is consistent with other portions of these Standards; and Local, State and Federal Regulations, and
 - 3. The upstream impacts, riparian impacts and habitat impacts of the proposed action are analyzed and no detrimental impacts result, or adverse impacts are mitigated.
- 9.04 <u>Required Submittals</u>. For any permit required in this Section, the following information shall be submitted to the Community and/or Dakota County:
 - A. Site plan showing boundary lines, delineation and existing elevation contours of the work area, ordinary high-water level, and 100-year critical flood elevation. All elevations shall be referenced to NGVD, 1929 datum.
 - B. Grading plan showing any proposed elevation changes.
 - C. Draft preliminary plat of any proposed subdivision.
 - D. Determination by a registered professional engineer of the 100-year critical flood elevation before and after the proposed activity.
 - E. Computation of the change in flood storage capacity as a result of the proposed alteration or fill.
 - F. Erosion control and sediment plan, or Stormwater Pollution Prevention Plan, which complies with the Stormwater Management Rule.
 - G. Soil boring results if available.

SECTION 10. DRAINAGE ALTERATION

10.01 <u>Drainage Alteration Approval Required</u>. No person or political subdivision shall artificially drain surface water, or obstruct or divert the natural flow of runoff so as to affect a drainage system, or harm the public health, safety, or general welfare of the Community, without first obtaining a permit from the Community.

<u>10.02 Drainage System Priorities</u>. The Community establishes the following priorities in managing existing drainage systems:

- A. Use existing natural retention and detention areas for stormwater management to maintain or improve existing water quality.
- B. Manage stormwater to minimize erosion.
- C. Allow outlets from landlocked basins, provided such outlets are consistent with State and Federal regulations, and the downstream impacts, riparian impacts, and habitat impacts of such outlets have been analyzed and no detrimental impacts result.
- D. Mitigate and reduce the impact of past increase in stormwater discharge on downstream conveyance systems.
- E. Address known flooding/erosion problems that cross jurisdictional boundaries and address other boundary issues and the diversion/alteration of watershed flows in local water plans.
- F. Address gully erosion problems in the watershed.
- G. Maximize upstream floodwater storage.
- <u>10.03</u> <u>Drainage Alteration Standards.</u> Land disturbing activities affecting existing drainage systems shall be subject to the following standards.
 - A. Outlets from landlocked basins with a tributary drainage area of 100 acres or more will be allowed, provided such outlets are consistent with other portions of these Standards, State and Federal regulations, and the downstream impacts, riparian impacts, and habitat impacts of such outlets have been analyzed and no detrimental impacts result. The analysis and determination of detrimental impacts shall:
 - 1. Use a hydrograph method based on sound hydrologic theory to analyze runoff for the design or analysis of flows and water levels,
 - 2. Ensure a hydrologic regime consistent with the Peak Runoff Rate Control Standards and the Runoff Volume Control Standards of this Ordinance,
 - 3. Ensure the outlet does not create adverse downstream flooding or water quality conditions, or materially affect stability of downstream major waterways,
 - 4. Maintain dead storage within the basin to the extent possible while preventing damage to property adjacent to the basin,
 - 5. Ensure that the low floors of new structures adjacent to the basin are set consistent with the Floodplain Alterations Standards, and
 - 6. Ensure that proposed development tributary to the land-locked basin has incorporated runoff volume control practices to the extent practical.
 - B. Artificial drainage, flow obstruction, and diversions involving waterways, public waters, public water wetland, wetlands with drainage areas of 640 acres or more will be allowed provided such alterations or diversions are consistent with other portions of these Standards, State and Federal regulations, and the downstream impacts, riparian impacts and habitat impacts of such alterations or diversions have been analyzed and no detrimental impacts result. Proposals for drainage alterations and diversions shall demonstrate that:
 - 1. There is a reasonable necessity for such drainage alteration or diversion to improve or protect human health and safety, or to improve or protect aquatic resources;
 - 2. Reasonable care has been taken to avoid unnecessary injury to upstream and downstream land:

- 3. The utility or benefit accruing to the land on which the drainage will be altered reasonable outweighs the gravity of the harm resulting to the land receiving the burden; and
- 4. The drainage alteration or diversion is being accomplished by reasonably improving and aiding the normal and natural system of drainage according to its reasonable carrying capacity, or in the absence of a practicable natural drain, a reasonable and feasible artificial drainage system is being adopted.
- C. Drainage alterations, diversions, and landlocked basin outlets shall be provided with stable channels and outfall.

10.04 Exceptions.

- A. No permit shall be required where it is demonstrated that the proposed drainage alteration or diversion does not cause off-site erosion, sedimentation, flooding, or other damage.
- B. The Community may waive the requirements regarding upstream and downstream flooding impacts if the applicant submits easements or other documentation in form acceptable to the Community, demonstrating and recording the consent of the owner of any burdened land to the proposed alteration.
- 10.05 Required Submittals. For any permit required in this Section, the following information shall be submitted to the Community, the VRWJPO, and Dakota County if the LGU:
 - A. Map showing location of proposed alteration and tributary area.
 - B. Existing and proposed cross sections and profile of affected drainage area.
 - C. Description of bridges or culverts required.
 - D. Narrative and calculations verifying compliance with the above criteria.

SECTION 11. APPLICATIONS, PERMIT FEES, ESCROWS, AND SURETY

- <u>11.01 Applications</u>. All requests for approvals required by this Ordinance shall be made on application forms or by procedures prescribed by the Community, and reviewed and acted upon through procedures established by the Community, and according to timeframes established by state law.
- 11.02 Permit Fees. All requests for approvals required in this Ordinance shall be obligated to pay applicable permit fees established by the Community and review procedure fees, including the reimbursement of out-of-pocket expenses incurred by the Community in the review and approval process. Out-of-pocket expenses include but are not limited to consulting fees, other agency review fees, public hearing publications, mailings, and similar expenses.
- <u>11.03</u> <u>Escrow Fund</u>. The Community may require a cash escrow fund, in amounts established by the Community, for the anticipated out-of-pocket expenses incurred by the Community identified in Section 10.02 above. A person seeking approvals from the Community shall be obligated to pay all out-of-pocket expenses regardless of the existence of an escrow fund or the amount required in an escrow fund.
- <u>11.04</u> <u>Financial Surety</u>. The Community may require cash, a letter of credit, performance bond, or other surety, in a form and amount determined by the Community, to guarantee

satisfactory completion of any land disturbing activities and to protect the public health, safety and welfare.

SECTION 12. APPEALS AND VARIANCES

Appeals for the interpretation of any provision of this Ordinance and variances from the literal application of the provisions in this Ordinance may be appropriate in certain circumstances. The appeals and variance procedures to consider interpretations or relief from the provisions of this Ordinance shall follow the procedures and requirements, and shall require the same findings and considerations for granting appeals or variances, as are prescribed in the Community Zoning Ordinance. In addition to the Community's appeals and variance procedures, written notification shall be made by the Community to the VRWJPO of any proposed appeal or variance proceeding no later than at the time notice of the proceeding is delivered to the official newspaper for publication. The Community must take into consideration any comments from the VRWJPO before acting on any appeal or variance.

SECTION 13. AMENDMENTS

Amendments to this ordinance may be initiated by petition of any person or by direction of the Community. Any consideration for an amendment to this Ordinance shall require a public hearing, including publication of the public hearing according to law. The public hearing may be held by the Planning Commission or the governing body, as determined by the Community. Prior to action on any amendment to this Ordinance by the governing body, the Community must forward a notice of the public hearing to the VRWJPO at the time notice of the proceeding is delivered to the official newspaper for publication. The Community must review and consider any comments from the VRWJPO prior to acting on any amendment.

SECTION 14. ABROGATION AND STRICTER PROVISIONS

It is not intended by this Ordinance to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. Where any provision of this Ordinance conflicts with a provision of other Community ordinances, the stricter provisions shall prevail.

SECTION 15. VIOLATIONS AND PENALTIES

- <u>15.01</u> <u>Civil Remedy</u>. In the event of a violation of this Ordinance, the Community may institute appropriate actions or proceedings to include injunctive relief to prevent, restrain, correct or abate such violations or threatened violations, and the Community Attorney may institute such action.
- <u>15.02</u> <u>Criminal Remedy.</u> Any person, who violates any of the provision of this Ordinance or who fails to comply with any provision of this Ordinance or who makes any false statement in any document submitted under this Ordinance, shall be guilty of a misdemeanor and, upon conviction thereof, shall be punished as provided by law. Each day that a violation continues shall constitute a separate offense.

SECTION 16. SEVERABILITY

If any section, clause, provision or portion of this ordinance is adjudged unconstitutional or

invalid by a court of law, the remainder of this Ordinance shall not be affected and shall remain in full force.

SECTION 17.	REPEAL ANI	O REPLACEME	CNT		
This Ordinance rep	eals and replaces (Ordinance No	, adopted on	, 2009.	
SECTION 18.	EFFECTIVE 1	DATE			
This Ordinance sha according to law.	all be in full force a	and effect from an	nd after its passage an	d publication	
Adopted this	day of	2010 by the	Board of Supervisors	s of	_ Township, M
ATTEST:					
				, Chair	
	, Clerk				
Official summary p			on	, 2021.	

APPENDIX A

 $\label{eq:map-1-Stream} \textbf{Map 1-Stream Classifications and Buffer Standards}$



Minutes

Vermillion River Watershed Planning Commission Meeting

November 17, 2021 – 4:00 p.m. In-person and Zoom Videoconference

WPC Members in Attendance

Mark Henry Chuck Clanton
Josh Borton James Kotz
Ken Betzold Stephen Hamrick
Andy Riesgraf Tony Wotzka

Staff in Attendance

Mark Ryan, VRWJPO Brita Moore-Kutz, VRWJPO Travis Thiel, VRWJPO Paula Liepold, Dakota County Mark Zabel, VRWJPO Others in Attendance

Call to Order and Pledge of Allegiance

The meeting was called to order by Chair Henry at 4:02 p.m.

2. Roll Call

All members present except Carolyn Miller. Tony Wotzka and Stephen Hamrick were observing via teleconference and not voting.

3. Audience Comments on Items Not on the Agenda

None.

4. Approval of Agenda

Chair Henry asked for approval of the agenda.

Motion by Commissioner Borton, second by Commissioner Betzold, to approve the agenda. The agenda was approved by a 6-0 vote.

5. Approval of Minutes

Chair Henry requested any adjustments to the minutes as presented. Commissioner Betzold noted that Chair Henry convened the October 13, 2021 meeting not Vice-Chair Betzold and asked the minutes be corrected. Chair Henry called for a motion to approve the minutes of the October 13, 2021 meeting of the WPC, as corrected.

Motion by Commissioner Clanton, second by Commissioner Kotz, to approve the minutes of the October 13, 2021, meeting, as corrected. The minutes were approved by a 6-0 vote.

6. Business Items

a. Presentation of Riparian Landowner Survey Report

Amit Pradhananga shared his screen for presentation of the "Landowner conservation beliefs and behaviors in the Vermillion River watershed" report. Amit is with the University of Minnesota Forestry Department, Center for Changing Landscapes. There was a survey of landowners in 2011 and now again in 2021. Amit is presenting the findings from the 2021 survey but also some comparison to the 2011 survey.

The purpose of the study is to try to understand landowner beliefs, norms, and behaviors associated with water resource conservation. This study was performed through a survey mailed to a randomly selected list of one-thousand riparian landowners in the Vermillion River Watershed. Two hundred fifty-three landowners responded (approximately 25% response rate). The survey inquired about water resource protection, perspectives on conservation practices, and current and potential future conservation practices. Unlike in 2011, researchers also asked questions about how landowners used or valued water. Most respondents identified that water resources need better protection and that conservation practices link to water quality and habitat benefits. Amit presented some specific responses about buffers referencing their habitat value and potential impacts on land values.

Commissioner Clanton asked if this information indicated whether the respondent was an agricultural or residential user. Amit stated about 20% of the landowners surveyed identified as farmers. Commissioner Riesgraf inquired about the process for selecting who received the survey. Amit responded that it was a random sample of one thousand. Mark Zabel explained the VRWJPO supplied a list of riparian landowners developed using the Counties' geographical information systems (GIS) applying a buffer along Vermillion River streams and tributaries from which the random sample was drawn.

The survey asked who respondents think should be responsible for protecting water quality. Most respondents indicated personal, landowner, or local government responsibility, i.e. a local responsibility, but that responsibility is distributed among locals.

Overall, the findings reflect that landowners value clean water, they are concerned about water quality and pollution, and they believe there is a personal obligation and responsibility to protect water. Landowners generally see the benefits of conservation and knowing more about practice benefits may motivate practice adoption.

After concluding his presentation, Amit asked if there were any additional questions. Commissioner Riesgraf asked how many respondents were repeat respondents from the 2011 survey. Amit stated that the researchers had not analyzed for that. It would require additional work with name and address matching to determine repeat responders. Commissioner Riesgraf offered that if there were enough of those there would be some opportunity for direct change comparison between 2011 and 2021 responses, which could be interesting. Commissioner Henry asked if there was significant change between 2011 and 2021 in perceptions of buffer requirements. Commissioner Henry noted that Dakota County had begun enforcing its ordinance provisions and later the State of Minnesota initiated buffer

provision requirements that may have had an influence of perceptions about buffers. Amit acknowledged that it could have changed some perceptions, but the survey did not ask about the State mandates themselves. The survey did ask about perceptions about buffers but did not see significant changes between 2011 and 2021 in answers to those questions. Mark Ryan asked if there was a breakout of land ownership that could be compared between 2011 and 2021. Travis Thiel added that it would also be interesting to evaluate not only the ownership but also the size of ownership and there might be an interest in differences for large farmland holdings versus small land holdings. It might be a comparison on a per acre basis. Amit will consider some of these suggestions for further analysis.

Amit offered to receive any follow-up suggestions after the meeting.

b. Final Draft VRWJPO Budget

Chair Henry introduced the item and referred to Mark Zabel for the presentation of the Final Draft 2022 VRWJPO Budget. Mark Zabel pointed out changes that had occurred to the budget compared to the original draft presented in August of 2021. Some funds have been allocated from the general CIP cost-share line item to supplement cash match to several grant and partner funded projects. These allocations are necessary as final project costs become firm in comparison to original estimates. An additional \$31,250 was allocated to match for the North Creek Stabilization Project and an additional \$20,000 was allocated to match for the Ravenna Basins Restoration Project. \$15,000 was reallocated to CIP from Vermillion Stewards. These reallocations do not affect the total expenses and thus do not impact the overall budget for the year. That means the levy remains the same as well.

Motion by Commissioner Borton, second by Commissioner Kotz, to recommend approval of the Final Draft 2022 VRWJPO Budget. Passed on a 6-0 vote.

c. Wetland Health Evaluation Program

Chair Henry introduced the item and referred to Paula Liepold for presentation. Paula noted that the VRWJPO has been contributing funds to the Wetland Health Evaluation Program (WHEP) over several years. Paula asked members if they had any questions about the WHEP. Commissioner Riesgraf asked what information has been reported from the collection of data over the years. Paula responded that the data is collected and reported annually by Fortin Consulting. The goals of the program are to engage and train volunteers in implementing the program and engaging them with the resources. Paula identified the term of the agreement as a five-year agreement. Participation is determined annually. Each Spring Paula reaches out to all communities who have entered into the agreement informing them of the fees and requirements to determine if and to what level they want to participate. Mark Zabel noted that the agreement enables the VRWJPO to participate in the program but does not necessarily commit the VRWJPO to form teams and allocate funds as part of this agreement. If the VRWJPO were to choose to identify wetlands and form a team for the program, funds would then need to be allocated to support the team's participation. Chair Henry asked what staff were requesting of the WPC. Mark Zabel stated that staff were requesting the WPC recommend to the VRWJPB to enter into the WHEP agreement.

Commissioner Clanton asked if Paula or Fortin Consulting could provide a presentation on the conditions of wetlands reported through WHEP. Paula indicated that a presentation on the wetlands evaluated within the participating communities in the watershed would be possible. Commissioner Riesgraf expressed an interest in trends over time for wetlands that have been evaluated. Paula commented that the annual report does show trends for individual wetlands that have been monitored more than once

as well as the scoring for the wetland for the program year. To view the report online you can go to MNWHEP.org to access the reports.

Motion by Commissioner Botzold, second by Commissioner Clanton to recommend approval of the Joint Powers Agreement for the Wetland Health Evaluation Program. Passed on a 6-0 vote.

d. Meeting Schedule for 2022

Chair Henry introduced the item and referred to Mark Zabel for presentation. Mark Zabel presented the proposed meeting schedule for 2022, which matches with the traditional schedule for the Vermillion River Watershed Planning Commission (WPC) as applied in the past as shown here:

- January 12
- February 9
- March 9
- April 13
- May 11
- June 8
- July 13
- August 10
- September 14
- October 12
- November 16

The WPC regularly meets the second Wednesday of the month with the exceptions of November and December. The WPC holds its last meeting of the year in November two weeks before the last meeting of the year for the Vermillion River Watershed Joint Powers Board.

Motion by Commissioner Clanton, Second by Commissioner Riesgraf to approve the meeting schedule for 2022 as presented. Passed on a 6-0 vote.

e. Model Ordinance Update

Chair Henry introduced the item and referred to Mark Ryan for presentation. Mark Ryan commented that VRWJPO staff have been working on developing a model ordinance to guide local communities in updating their local ordinances to implement the updated VRWJPO Standards. Staff will be working with the local units of government who implement the VRWJPO Standards through their local ordinances to update their ordinances to ensure current VRWJPO Standards are included. To help with this, staff began developing a model ordinance based on the one that was developed in 2010 for the Dakota County Rural Collaborative Towns and Townships updating it to match the current VRWJPO Standards. Staff are hoping this will help streamline the updating and adoption of changes to local ordinances.

Commissioner Clanton commented that within the VRWJPO Standards and the model ordinance we refer to storm events for purposes of design of practices. Commissioner Clanton suggests that we simply list the rainfall amount as opposed to the design storm event as the watershed is small enough that there is little difference across the watershed. Mark Ryan commented that it is something we could consider in future Standards updates. Travis Thiel looked up the Atlas 14 information for the 100-year, 24-hour rain event; the difference across the watershed between Elko-New Market and Hastings is 0.10 inches of rainfall, with 7.29 inches in Elko-New Market and 7.39 inches in Hastings. Mark Zabel added that Atlas 14 applied probability mapping around the gaging stations to establish the rainfall values for

design storm events. Travis Thiel mentioned that someone who would perform the modeling of these storm events would either have a model that pulls the correct design storm information based on the location of the project or would look directly on the Atlas 14 website to identify the design storm for the specific location.

f. Vermillion River Watershed Planning Commission Member Terms and Status

Chair Henry introduced the item and referred to Mark Zabel for presentation. Mark Zabel displayed a table showing the terms and eligibility for member's service on the WPC. Mark Zabel acknowledged that Commissioner Betzold's eligibility ends at the end of the year, so this is his last meeting. Brita then presented Commissioner Betzold with a rain gage in recognition of his long-time service as a member of the WPC. Mark Zabel then went through the list of members noting when their individual terms end and the extent of their eligibilities. Mark Zabel also noted that Carolyn Miller's term and Tony Wotzka's term end at the end of this year. Both have chosen not to continue. Chair Henry acknowledged Ken Betzold's service on the WPC and his commitment to conservation. Chair Henry also acknowledged the need to recruit new members. Mark Zabel noted the challenge of only having six current active members and five members are needed for a quorum for a meeting. Chair Henry encouraged members to encourage others to serve. Chair Henry also acknowledged the service of Carolyn and Tony.

7. Updates

a. Chairperson's Report

Chair Henry reported there are several monitoring wells being drilled locally. Chair Henry hopes the VRWJPO will be able to access data collected from those wells. Mark Ryan commented that much of that activity is coordinated between the Minnesota Department of Agriculture and Dakota County Environmental Resources Groundwater Unit, and so the information will be available to the VRWJPO.

Commissioner Clanton reported there had been a meeting on the Agricultural Chemical Reduction Effort (ACRE) program by Dakota County. The County is providing financial incentives to support what the Soil and Water Conservation District and United States Department of Agriculture through the Natural Resource Conservation Service and the Farm Service Agency are doing to encourage reduced agricultural chemical applications. The morning's session was something of a brainstorming to address issues. The group discussed rewarding those who are currently implementing practices rather than providing incentives to correct poor practices. If doing carbon sequestering, you should be rewarded for it. Most programs don't address small operations of less than 40 acres, and the County targeting some of these small acreages. They also discussed multiple topics for improvement:

- How to improve irrigation water management.
- Getting more plant tissue testing used for managing nitrogen.
- Testing crops and finding efficiencies.
- Getting more varying crops into the landscape like small grains and forage crops.
- How to handle absentee landowners.
- Possible limited land retirement programs like CRP.

Commissioner Clanton suggested possibly having County and/or SWCD staff associated with the ACRE program give a presentation to the WPC.

b. Staff Updates

Brita Moore-Kutz reported going through the landowner survey report and incorporating strategies into the VRWJPO Communications Plan based on information provided. Brita noted that she had done some tabling at events. Brita attended the Minnesota Water Resources Conference and BWSR Academy

trainings. Brita and Mark Zabel met with staff from Friends of the Mississippi River to discuss how we might coordinate and collaborate on efforts of mutual benefit and interest.

Travis Thiel reported that the Minnesota Pollution Control Agency (MPCA) has released their final impaired waters draft listings for 2022. There are thirteen new impairments listed for the Vermillion River Watershed. Twelve of those on stream reaches and one on Lake Rebecca in the City of Hastings. Lake Rebecca has a new impairment listing for PFOS, a "forever chemical" used in non-stick cookware and fabric treatments by companies like 3M and Dupont. Many of the stream impairments aren't really new as they have been discussed but MPCA needed to collect more information. The South Branch has three new impairments but those are mainly a result of the reclassification of the stream from 2B warmwater stream to 2A coldwater stream. Commissioner Kotz asked to clarify that there are 13 new impairments. Travis confirmed that there are 13 new impairments for the watershed. Commissioner Riesgraf commented that Lake Rebecca is really a backwater of the Mississippi River. Mark Zabel confirmed that conditions for Lake Rebecca are directly influenced by conditions within the Mississippi River. Travis commented that staff are drafting comments to the specific draft listings for the watershed. Some of the changes leading to listings are due to changes in classifications for the stream, changes in the standard, or new additional sampling. There was a great deal of discussion around the draft listing for Aluminum and what the source of Aluminum leading to a listing might be. Commissioner Kotz asked if the VRWJPO has implemented projects that could benefit the areas where these impairments occur. Mark Zabel replied that the work of the VRWJPO has been focused on partnering on projects that address impairments or that try to protect waters from becoming impaired. The VRWJPO has participated in projects to reduce total suspended solids (TSS) in various reaches of the stream, has done projects to reduce delivery of phosphorus to lakes with Total Maximum Daily Load requirements, etc. Mark Zabel noted that staff have talked about conditions in the stream and the concept of a site specific standard as the South Branch now has a draft listing for fish when Chair Henry reported just last month about talking with a fisherman on the South Branch who had just caught a 24 inch brown trout. Chair Henry asked what the draft impairments were for the South Branch. Travis responded that draft listing for the South Branch are TSS, Fish, and Macroinvertebrates. Chair Henry commented that historical modifications in the upper watershed of the South Branch may have had, and continue to have, a negative impact. Mark Zabel commented that when the public sees thirteen new draft listings for impairments in the Vermillion River watershed, they are likely to think that water quality is significantly degrading when that is really not the case. Commissioners discussed how we might best communicate about this.

Paula Liepold messaged that she has been appointed to serve on the Advisory Committee for the North Cannon River Watershed Management Organization for their Plan development effort.

8. Adjourn

Motion by Commissioner Betzold, second by Commissioner Kotz, to adjourn the meeting at 5:43 p.m. The motion passed on an 6-0 vote.