Agenda

Vermillion River Watershed Joint Powers Board Meeting
December 3, 2020, 1 p.m.
Teleconference using Zoom

1.	Call to Order		
1a.	Statement of Need to Change Format of Meeting Due to Health Pandemic		
2.	Roll Call		
3.	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 22, 2020, Meeting		Page 3
	c. Acceptance of Treasurer's Report		Page 7
	d. Approval of Expenses		Page 8
	e. Approval of Dates for 2021 Vermillion River Watershed Joint Powers Board Meetings		Page 9
5.	Business Items		
	a. Adoption of VRWJPO 2021 Final Draft Budget and Watershed Management Tax District Levy	Action	Page 11
	b. Approval of Submittal of an Amendment and Schedule a Public Hearing of the Vermillion River Watershed Joint Powers Organization Watershed Management Plan to the Board of Water & Soil Resources	Action	Page 23
6.	Staff Reports		
7.	Adjourn	Action	

* Draft minutes from the November 18, 2020 Watershed Planning Commission Meeting are included at the end of the packet as information for the Vermillion River Watershed Joint Powers Board.

Please note, the December 3, 2020, Joint Powers Board meeting will take place **via teleconference by phone and/or the web-based application, Zoom.** In response to COVID-19 no in-person meeting will be available. We are following provisions in Minnesota Open Meeting Law addressing meetings in the case of pandemic.

Join Zoom Meeting
https://dakotacountymn.zoom.us/j/97685761400?pwd=Rm9ZLytKNldWdlpLVjJKeWZOVXJPZz09

Meeting ID: 976 8576 1400
Passcode: 901315

One tap mobile
+16513728299,,97685761400#,,,,,,0#,,901315# US (St. Paul)

Dial by your location
+1 651 372 8299 US (St. Paul)
Meeting ID: 976 8576 1400
Passcode: 901315
Find your local number: https://dakotacountymn.zoom.us/u/abYGHqkqDW

Other Information

Next Meeting Date**: January 28, 2021,** 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 22, 2020, 1 p.m.
teleconference using Zoom and in person at conference room 1 & 2, Dakota County Extension and Conservation Center, 4100 220th Street West, Farmington, MN

Board Members in Attendance
Dakota County Commissioner Mike Slavik, Chair
Dakota County Commissioner Mary Liz Holberg, Vice Chair
Dakota County Commissioner Tom Wolf, Secretary/Treasurer

Others in Attendance
Mark Zabel, Watershed Administrator
Melissa Bokman Ermer, Watershed Co-administrator
Travis Thiel, Dakota County, Senior Watershed Specialist
Paula Liepold, Dakota County, Water Resources Outreach and Communications
Mark Ryan, VRWJPO Watershed Engineer
Jen Dullum, Dakota County, Public Outreach and Communication
Helen Brosnahan, Dakota County, Assistant County Attorney
Brian Watson, Dakota County Soil and Water Conservation District Manager

1. Call to Order
Meeting was called to order by Commissioner Slavik at 12:59 p.m.

2. Roll Call
All Board members were in attendance.

3. Audience Comments on Items Not on the Agenda
There were no comments from the audience.

4. Approval of Consent Agenda
a. Approval of Agenda
b. Approval of Minutes from the August 27, 2020, meeting
c. Acceptance of Treasurer's Report
d. Approval of Expenses
e. Authorization to Execute a Joint Powers Agreement with Dakota County for the Wetland Health Evaluation Program (WHEP)

f. Authorization to Execute a Joint Powers Agreement with the City of Lakeville for the Jaguar Avenue Stormwater Basin Enhancement Project

Res. No. VRW 20-16: Motion by Commissioner Holberg, Second by Commissioner Wolf, and passed on a 3-0 roll call vote to approve the consent agenda.

5. Business Items

5a. Report on Measurable Outcomes as identified in the 2016-2025 Vermillion River Watershed Management Plan

Mark Zabel introduced this item. A series of outcome measurements is used to track the impact of the implementation of the Vermillion River Watershed Plan. Jen Dullum coordinates compiling data and reporting. Jen noted these measures will be tracked and reported annually. She highlighted one to two outcomes for each Watershed goal.

Goal A: Protect or restore water quality in lakes, streams, and wetlands
Since 2016, Vermillion River Watershed Joint Powers Organization (VRWJPO) projects have stopped over 2,000 tons of suspended solids and 795 pounds of total phosphorous from entering water resources.

Goal B: Protect and restore groundwater quality
Since 2018, over 435 acres have been enrolled into the Dakota County Soil and Water Conservation District's (SWCD) cover crop program, which is supported, in-part, with VRWJPO funds.

Goal C: Maintain a sustainable water supply
The VRWJPO completed six irrigation efficiency audits in 2018 and 2019, combined. This has led three townhome associations to apply and receive cost share funds for retrofit projects.

Goal D: Address more intense fluctuations (up and down) in river flow rate and volume
Since 2016, eight stormwater retrofits projects have been completed to address river rate and volume.

Goal E: Improve public awareness and stewardship of water resources
Since 2016, the VRWJPO website has seen an increase of 5,358 users. In 2019, over 2,000 people participated in events, programs, and training.

GOAL F: Improve watershed resilience to changing precipitation and temperature patterns
Since 2016, 35 VRWJPO Standards compliance evaluations have been completed with local municipalities. The Landscaping for Clean Water program, which is in-part funded through the VRWJPO, has installed 56 rain gardens, 30 native gardens, and 2 shoreline plantings in the Watershed since 2016.

GOAL G: Protect or restore sensitive biological resources, such as plants, fish, insects, and wildlife
Nine of 18 biological monitoring sites are showing positive trend for macroinvertebrate health.

Commissioner Slavik thanked staff for the update. Commissioner Holberg appreciated the report readability, which she feels is appropriate for public consumption.

6. Staff Reports

Jen Dullum informed the Commissioners the VRWJPO is currently promoting the Minnesota Water Stewards (MWS) program for the 2021 program year. This past week, our 2020 stewards graduated

after completing several months of course work and a capstone project. Mark Zabel asked the Commissioners for direction on accepting a 2021 steward candidate that does not live in the Watershed or Dakota County because VRWJPO funds are used to support the MWS program. Commissioner Holberg questioned if the VRWJPO has ever had more applicants than available spots. Mark Zabel respond that has never happened. Commissioner Holberg stated if the VRWJPO has space for this steward candidate, and if they do volunteer work in the Vermillion River Watershed, accepting them into the program is acceptable to her. Mark Zabel noted the fee per steward is $1,500. Commissioner Wolf agreed with Commissioner Holberg's position. Commissioner Slavik stated that volunteer work completed within the Watershed should factor more heavily into eligibility than where a candidate lives.

Travis Thiel noted that the Records Trail project has been completed. The bulk of the 78-10 denitrification project has been constructed, but is still waiting to have some minor grading, seeding, and stabilization done, but the snow has slowed things down. The Hastings 21st Street project, which consists of three separate projects, is progressing. For the three parts: stabilization of the ravine basin is complete; the filtration basin at 21st Street and a Cemstone business property driveways is partially complete; and the hydrodynamic separator location is currently being excavated. This project will hopefully be complete in next couple weeks pending resolution of utility conflicts.

Mark Ryan stated that the 78-06 woodchip wetland had a new outlet added in October and the project will be closed out pending seeding. Travis Thiel and Mark Ryan presented this week at the Minnesota Water Resources Conference on the South Branch subwatershed's increasing nitrate trend and the two projects installed to address the nitrate issue in this subwatershed.

Mark Zabel showed the Commissioners water quality nitrate monitoring information from the South Branch station. Mark presented charts of data from 2005-2017 showing nitrate loading in the South Branch. One graph showed annual open water season load trend, and the other graph depicts when nitrate peaks (at snow melt, after planting, mid-summer, late summer, and late winter). Mark believes the peaks occur from shallow return flow and surface runoff coming into the river.

Mark Zabel received a letter of interest for internal grant program from the Water Resources Center at the University of Minnesota (U of M). The grant program has project priorities for studying agricultural inputs to groundwater and surface water. The VRWJPO and Dakota County have been interested in determining the effectiveness of nitrate reduction projects on the water quality in the drinking water wells in Hastings and in the South Branch of the Vermillion River. If the grant is successful, the U of M would conduct work within Dakota County and the VRWJPO researching nitrate in surface and ground water. The grant could provide research support equivalent to up to $210,000 in funding. This is a grant program internal to the U of M that directs research and graduate student work through the UM Water Resources Center. No cash contribution is required from the VRWJPO and local partners, but there may be some collaborative roles including water sample collection, for example.

Mark Zabel noted that the Watershed Based Implementation Funding (WBIF) work group will meet next week to discuss the proposed projects for potential funding. The group will discuss scoring and ranking for the proposed projects and possibly select the projects that will be recommended for grant funding.

Mark Zabel, Mark Ryan and Melissa Bokman Ermer met at the Bemis Wetland with Troy Kuphal of the Scott Soil and Water Conservation District to discuss repair or reconstruction of a berm that controls the current wetland outlet, for potential WBIF funding and discussed other possible funding alternatives.

Adjourn
Motion by Commissioner Holberg, Second by Commissioner Wolf, and passed on a 3-0 roll call vote to adjourn the meeting at 1:33 p.m.

Next Meeting Date: December 3, 2020, at 1 p.m. Location to be determined.

Respectfully submitted:

Jen Dullum
Vermillion River Watershed Joint Powers Organization

Mark Zabel
Administrator for the Vermillion River Watershed Joint Powers Organization

Attest

_____ _____
Commissioner Tom Wolf Secretary/ Treasurer Date

2020 Vermillion River Watershed Joint Powers Organization
Treasurer's Report
November, 2020 - Vermillion River Watershed Joint Powers Board Meeting

		Budget Amounts	Expenses to Date	Expenses Pending	Account Balance
I.	Administration & Operations (217002-0000)	$ 233,500.00	$ 189,675.53	$ 17,264.34	$ 26,560.13
II.	Research & Planning (217002-0130)	$ 65,600.00	$ 12,095.20	$ 3,064.09	$ 50,440.71
III.	Monitoring & Assessment (217002-0230)	$ 160,600.00	$ 45,993.23	$ 27,913.30	$ 86,693.47
IV.	Public Communications & Outreach (217002-0330)	$ 212,050.00	$ 106,643.81	$ 18,181.79	$ 87,224.40
V.	Regulation (217002-0530)	$ 65,900.00	$ 23,749.66	$ 2,078.86	$ 40,071.48
VI.	Coordination & Collaboration (217002-0531)	$ 20,000.00	$ 18,742.44	$ 3,762.41	$ (2,504.85)
VIII.	Feasibilty/Preliminary Studies (217002-0631)	$ 200,000.00	$ 146,527.05	$ 38,665.08	$ 14,807.87
X.	Capital Improvement Projects (217092-0130)	$ 504,300.00	$ 114,383.03	$ 110,748.81	$ 279,168.16
XI.	Met Council Grant (217002-0832)	$ -	$ 1,300.00	$ -	$ (1,300.00)
XII.	CWF Grant - Alimagnet (217002-0836)	$ 6,060.00	$ 6,053.71	$ -	$ 6.29
XIII.	CWF Grant - County Road 50 (217002-0837)	$ -	$ -	$ -	$ -
XIV.	CWF Grant - South Branch (217002-0838)	$ 80,000.00	$ 4,307.63	$ 3,738.93	$ 71,953.44
XV.	CWF Grant - Lakeville (217002-0839)	$ -	$ -	$ -	$ -
XVI.	CWF Grant - South Creek (217002-0840)	$ -	$ -	$ -	$ -
XVII.	CWF Grant - Erickson Park St (217002-0841)	$ 164,300.00	$ -	$ -	$ 164,300.00
XVIII.	CWF Grant - Farmington Street (217002-0842)	$ -	$ -	$ -	$ -
XIX.	CWF Grant - Aronson Park Storm (217002-0843)	$ 100,100.00	$ -	$ -	$ 100,100.00
XX.	CWF Grant - Webster Wetland (217002-0844)	$ 67,000.00	$ -	$ -	$ 67,000.00
XXI.	CWF Grant - Technical Assistance (217002-0845)	$ 19,500.00	$ -	$ -	$ 19,500.00
XXII.	CWF Grant - Imminet Health T (217002-0846)	$ 8,000.00	$ -	$ -	$ 8,000.00
XXIII.	CPL Grant - South Creek at Hamburg (217002-0847)	$ 26,000.00	$ 395.37	$ -	$ 25,604.63
XXIX.	FY2019 - Watershed Funding Grant (217002-0848)	$ 5,000.00	$ 2,649.59	$ 1,294.79	$ 1,055.62
XXX.	CWF Grant - Records Trail/Grade (217002-0849)	$ 105,000.00	$ -	$ 89,672.88	$ 15,327.12
XXXI.	CWF Grant - 21st Street Ravine Outlet (217002-0850)	$ 147,600.00	$ -	$ 73,800.00	$ 73,800.00
XXXII.	CWF Grant - Vermillion Falls Bio (217002-0851)	$ 37,000.00	$ -	$ 18,500.00	$ 18,500.00
XXXIII.	CWF Grant - Middle Creak Restoration (217002-0852)	$ 430,000.00	$ 1,403.48	$ 415.67	$ 428,180.85
	VRW JPO Revised Budget Expense TOTAL	**$ 2,657,510.00**	**$ 672,516.25**	**$ 409,100.95**	**$ 1,574,489.32**

Budget Funding Sources	
Scott County Levy	***$ 34,000.00***
Dakota County Levy	***$ 966,000.00***
Expected 2019 Carryover (Fund Balance)	***$ 569,240.00***
Special Use Permit	***$ 2,500.00***
2019 CWF Grants (BWSR)	***$ 440,000.00***
2019 CWF Grant 1W1P (BWSR)	***$ 159,400.00***
CPL Grant South Creek at Hamburg	***$ 25,000.00***
Met Council Grant	***$ -***
Expected CIP	***$ 549,660.00***
Investment Earnings	***$ 20,000.00***
	$ 2,765,800.00

Vermillion River Watershed Joint Powers Organization
4100 220th St. W., Suite 103, Farmington, MN 55024

Date: December 3, 2020 **Agenda Item 5**
To: Vermillion River Watershed Joint Powers Board
From: Staff
Subject: Joint Powers Organization Expenses

Expenses from the invoices submitted between September 17, 2020 and October 12, 2020 totalled $66,560.73
The invoices submitted between October 13, 2020 and November 20, 2020 are listed below:

Invoice	Vendor		Amount
October	Dakota County Staff Time	$	43,172.16
September	Dakota County Legal	$	1,264.17
IN26398	Scott County	$	602.54
2010726258	U of M	$	1,726.19
1RD4-6RM7-1FMP	Amazon	$	11.19
11PK-VDD7-RM69	Amazon	$	21.98
90851444	USGS	$	8,615.00
44138	WHEP	$	3,000.00
3032	Dakota County Soil and Water Conservation District	$	56,252.74
13916.00-2	SRF	$	12,362.10
2019-01	Standard Contracting	$	89,672.88
202010123760	City of Hastings	$	92,300.00
7298	City of Apple Valley	$	100,000.00
2020-2964	MPARS Water Permit	$	100.00
Total expense as approved on December 3, 2020		**$**	**409,100.95**

Action Requested: Approve all above expenses as presented on December 3, 2020

4e. Approval of Dates for 2021 Vermillion River Watershed Joint Powers Board Meetings

Meeting Date: 12/3/2020
Item Type: Consent-Action
Contact: Jennifer Dullum
Telephone: 952-891-7086
Prepared by: Jennifer Dullum
Reviewed by: N/A

PURPOSE/ACTION REQUESTED

- Approval of dates for 2021 Vermillion River Watershed Joint Powers Board (VRWJPB) meetings

SUMMARY

The VRWJPB 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. The meetings will also be held via teleconference for as long as necessary due to the COVID-19 pandemic. It is proposed that the 2021 VRWJPB meetings continue the same basis, according to the following schedule:

- January 28
- February 25
- March 25
- April 22
- May 27
- June 24
- July 22
- August 26
- September 23
- October 28
- December 2

EXPLANATION OF FISCAL/FTE IMPACT

None

Supporting Documents: **Previous Board Action(s):**

- ;

RESOLUTION

4e. Approval of Dates for 2021 Vermillion River Watershed Joint Powers Board (VRWJPB) Meetings

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

WHEREAS, regularly scheduled meetings of the VRWJPB are required to complete its business in a timely and responsible manner.

NOW, THEREFORE, BE IT RESOLVED, that in calendar year 2021, the VRWJPB will meet on the fourth Thursday of the month (except in November and December) at 1 p.m., according to the following schedule:

- January 28
- February 25
- March 25
- April 22
- May 27
- June 24
- July 22
- August 26
- September 23
- October 28
- December 2

5a. Adoption of the Vermillion River Watershed Joint Powers Organization 2021 Final Budget and Watershed Management Tax District Levy

Meeting Date:	12/3/2020	
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) 2021 Final Budget and Watershed Management Tax District Levy

SUMMARY

The proposed VRWJPO 2021 Final Budget (Attachment A) is $2,507,400 including cash reserves, Clean Water Fund Competitive grant, and Clean Water Fund Watershed Based Implementation Funding grant. The proposed VRWJPO 2021 Final Budget recommends a Watershed Management Tax District Levy of $1,000,000; $33,350 in the Scott County portion of the watershed and $966,650 in the Dakota County portion of the watershed. This amount represents no change from the overall Watershed Management Tax District levy compared to 2020. 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 2021 Budget
Attachment B: Vermillion River Watershed Tax District Estimated 2021 Taxes DC
Attachment C: 2021 Vermillion WMO Impact SC

RESOLUTION

5a. Adopt the Vermillion River Watershed Joint Powers Organization 2021 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 2021 Final Budget and Watershed Management Tax District Levy, and

WHEREAS, the Vermillion River Watershed Joint Powers Board has reviewed and discussed the VRWJPO 2021 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 2021 Final Budget totaling $2,507,400 and recommends a Vermillion River Watershed Management Tax District Levy of $1,000,000 ($33,350 in the Scott County portion of the watershed and $966,650 in the Dakota County portion of the watershed).

VRWJPO Final Draft 2021 Budget

Category		Budget Items	2021 Draft Budget Amount	Budget % of Total	2020 Revised Budget Amount	Budget % of Total
EXPENSES						
Administration and Operations	1	Dakota County VRW Staff	$175,000	7.0%	$175,000	6.3%
-2170020000	2	Scott County VRW Staff	$13,500	0.5%	$13,500	0.5%
	3	Other Dakota County Staff Time	$12,000	0.5%	$12,000	0.4%
	4	Legal Support	$25,000	1.0%	$25,000	0.9%
	5	Miscellaneous Expenses (per diems, mileage, postage, etc.)	$6,000	0.2%	$6,000	0.2%
	6	Training, Conferences, and Certifications	$2,000	0.1%	$2,000	0.1%
		Subtotal Administrative	**$233,500**	**9.3%**	**$233,500**	**8.4%**
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	0.5%	$12,000	0.4%
	4	Conservation Attitudes and Behaviors Survey	$50,000	2.0%	$50,000	
		Subtotal Research and Planning	**$65,600**	**2.6%**	**$65,600**	**2.4%**
Monitoring and Assessment	1	Vermillion River Monitoring Network in Dakota Co.				
-2170020230	1a	Staff Time for Sample Collection, Equipment Installation, Maintenance, Downloading	$39,000	1.6%	$39,000	1.4%
	1b	Data analysis, database management, data reporting, FLUX modeling, reporting	$17,000	0.7%	$17,000	0.6%
	1c	Water Quality Sample Analysis and QA/QC samples	$19,000	0.8%	$19,000	0.7%
	1d	Equipment and Supplies	$8,000	0.3%	$8,000	0.3%
	2	Vermillion River Monitoring Network in Scott Co	$9,800	0.4%	$9,800	0.4%
	3	USGS Cost Share for Blaine Ave. Station	$8,900	0.4%	$8,900	0.3%
	4	DNR Flow Gaging Assistance	$9,700	0.4%	$9,700	0.4%
	5a	Biological and Habitat Assessments	$7,000	0.3%	$7,000	0.3%
	5b	Electrofishing	$16,000	0.6%	$16,000	0.6%
	7	Monitoring Programs Review and Evaluation	$15,000	0.6%	$15,000	0.5%

VRWJPO Final Draft 2021 Budget

Category		Budget Items	2021 Draft Budget Amount	Budget % of Total	2020 Revised Budget Amount	Budget % of Total
	8	General GIS support (Dakota SWCD)	$5,000	0.2%	$5,000	0.2%
	9	Nitrate Treatment Practice Sampling	$1,000	0.0%	$1,000	0.0%
	10	Iron Enhanced Sand Filter Performance Sampling	$2,000	0.1%	$2,000	0.1%
	11	East Lake Carp Assessment	$3,200	0.1%	$3,200	0.1%
		Subtotal Monitoring and Data Analysis	**$160,600**	**6.4%**	**$160,600**	**5.8%**
Public Communications and Outreach	1	Communication and Outreach Staff	$110,000	4.4%	$110,000	4.0%
	2	Wetland Health Evaluation Program Cost Share	$3,000	0.1%	$3,000	0.1%
-2170020330	3	Vermillion River Watch Program	$6,000	0.2%	$6,000	0.2%
	4	Vermillion River Stewards	$20,000	0.8%	$20,000	0.7%
	5	Scott County Outreach Efforts	$2,050	0.1%	$2,050	0.1%
	6	Vermillion River Watershed Projects Signage and Map Updates	$5,000	0.2%	$5,000	0.2%
	7	Newsletter, Mailings, Website, General Communication Materials	$10,000	0.4%	$10,000	0.4%
	9	Landscaping for Clean Water Workshop Program (Dakota SWCD)	$30,400	1.2%	$30,400	1.1%
	10	K-12 Classroom Presentations (Dakota SWCD)	$4,000	0.2%	$4,000	0.1%
	11	Children's Water Festival Support	$600	0.0%	$600	0.0%
	12	Watershed Partners	$5,000	0.2%	$5,000	0.2%
	13	Watershed Tours	$1,500	0.1%	$0	0.0%
	14	Master Water Stewards	$12,500	0.5%	$12,500	0.5%
	15	Local Standards/ Ordinance and Turf/ Salt Workshops	$3,500	0.1%	$3,500	0.1%
		Subtotal Public Outreach and Communication	**$213,550**	**8.5%**	**$212,050**	**7.7%**
Regulation	2	Scott SWCD Assistance with Plan Review	$900	0.0%	$900	0.0%
-2170020530	3	Engineering Assistance and Review	$45,000	1.8%	$45,000	1.6%
	4	VRW Staff Local Program Assistance	$20,000	0.8%	$20,000	0.7%
		Subtotal Regulation	**$65,900**	**2.6%**	**$65,900**	**2.4%**

VRWJPO Final Draft 2021 Budget

Category		Budget Items	2021 Draft Budget Amount	Budget % of Total	2020 Revised Budget Amount	Budget % of Total
Coordination and Collaboration -2170020531	1	Coordination VRW Staff	$25,000	1.0%	$20,000	0.7%
		Subtotal Coordination and Collaboration	**$25,000**	**1.0%**	**$20,000**	**0.7%**
Land and Water Treatment						
Capital Improvement Projects -2170920130	1	Rosemount Cost Share JPA	$58,000	2.3%	$58,000	2.1%
	2	Cost Share Programs in Dakota County (SWCD)	$80,000	3.2%	$80,000	2.9%
	3	Cost Share Programs in Scott County (SWCD)	$41,300	1.6%	$41,300	1.5%
	4	Cost-share	$325,000	13.0%	$170,000	6.1%
		WBIF Grant match	$34,100	1.4%		
	5	Johnny Cake Ridge Road Stormwater Improvements	$0	0.0%	$100,000	3.6%
		Subtotal Capital Improvement Projects	**$538,400**	**21.5%**	**$449,300**	**16.2%**
Maintenance -2170920130	1	Past projects maintenance/ repair	$25,000	1.0%	$55,000	2.0%
	2	CIP construction oversight, maintenance/ repair staff costs	$25,000	1.0%		
		Subtotal Maintenance	**$50,000**	**2.0%**	**$55,000**	**2.0%**
Feasibility/Preliminary Studies -2170020631	1	Preliminary Design, Technical Assistance and Marketing for Capital Improvements (Dakota SWCD)	$40,000	1.6%	$40,000	1.4%
	2	Preliminary Design, Technical Assistance and Marketing for Capital Improvements	$100,000	4.0%	$70,000	2.5%
		Irrigation Audits 2020			$10,000	0.4%
		Subtotal Feasibility/Preliminary Studies	**$140,000**	**$0**	**$120,000**	**4.3%**
Irrigation Audit and Cost Share Program	1	Irrigation Audits	$5,000			
	2	Irrigation Cost-Share	$5,000			
		Subtotal Irrigation Audit and Cost Share	**$10,000**			

VRWJPO Final Draft 2021 Budget

Category		Budget Items	2021 Draft Budget Amount	Budget % of Total	2020 Revised Budget Amount	Budget % of Total
Met Council Grant	1	Tropics Building Stormwater Reuse (grant)	$0	0.0%	$0	0.0%
-2170020832	2	Tropics Building Stormwater Reuse (VRWJPO match)	$0	0.0%	$0	0.0%
		Subtotal Met Council Grant	**$0**	**$0**	**$0**	**0.0%**
CWF Grant (BWSR) Middle Creek Highview	1	Middle Creek Restoration	$380,000	15.2%	$380,000	13.7%
-2170020852	2	VRWJPO cash match	$50,000	2.0%	$50,000	1.8%
		Subtotal CPL Grant Middle Creek/ Pinnacle Reserve	**$430,000**	**$0**	**$430,000**	**15.5%**
CWF Grant (BWSR) Alimagnet Lake	1	Alimagnet Lake Stormwater Improvement Projects	$0	0.0%	$0	0.0%
-2170020836	2	VRWJPO cash match	$0	0.0%	$6,060	0.2%
		Subtotal CWF Grant Alimagnet	**$0**	**$0**	**$6,060**	**0.2%**
CWF Grant (BWSR) Phosphorus Treatment Cty Rd 50	1	Phosphorus Treatment County Road 50	$0	0.0%	$0	0.0%
-2170020837	2	VRWJPO cash match	$0	0.0%	$0	0.0%
		Subtotal CWF Grant Cty Rd 50	**$0**	**$0**	**$0**	**0.0%**
CWF Grant (BWSR) South Branch Nitrate Treatment	1	South Branch Nitrate Treatment (Phase II)	$0	0.0%	$60,000	2.2%
-2170020838	2	VRWJPO cash match	$0	0.0%	$20,000	0.7%
		Subtotal CWF Grant South Branch Nitrate	**$0**	**$0**	**$80,000**	**2.9%**
CWF Grant (BWSR) Lakeville Hydrodynamic Separator	1	Lakeville Hydrodynamic Separator	$0	0.0%	$0	0.0%
-2170020839	2	VRWJPO cash match	$0	0.0%	$0	0.0%
		Subtotal CWF Grant Hydrodynamic Separator	**$0**	**$0**	**$0**	**0.0%**

VRWJPO Final Draft 2021 Budget

Category		Budget Items	2021 Draft Budget Amount	Budget % of Total	2020 Revised Budget Amount	Budget % of Total
CWF Grant (BWSR) South Creek Temperature Reduction	1	South Creek Temperature Reduction	$0	0.0%	$0	0.0%
-2170020840	2	VRWJPO cash match	$0	0.0%	$0	0.0%
		Subtotal CWF Grant South Creek Temperature Reduction	**$0**	**$0**	**$0**	**0.0%**
CWF Grant (BWSR) Erickson Park Stormwater Improvement	1	Erickson Park Stormwater Improvement	$114,300	4.6%	$100,000	3.6%
-2170020841	2	VRWJPO cash match	$50,000	2.0%	$30,000	1.1%
		Subtotal CWF Grant Erickson Park Stormwater Improvement	**$164,300**	**$0**	**$130,000**	**4.7%**
CWF Grant (BWSR) Farmington Street Project	1	Farmington Street Project	$0	0.0%	$44,300	1.6%
-2170020842	2	VRWJPO cash match	$0	0.0%	$55,000	2.0%
		Subtotal CWF Grant Farmington Street Retrofit	**$0**	**$0**	**$99,300**	**3.6%**
CWF Grant (BWSR) Aronson Park Stormwater Reuse	1	Aronson Park Stormwater Reuse Project	$7,050	0.3%	$70,600	2.6%
-2170020843	2	VRWJPO cash match	$2,950	0.1%	$29,500	1.1%
		Subtotal CWF Grant Aronson Park Stormwater Reuse	**$10,000**	**$0**	**$100,100**	**3.6%**
CWF Grant (BWSR) Webster Wetland Restoration	1	Webster Wetland Restoration	$67,000	2.7%	$67,000	2.4%
-2170020844	2	VRWJPO cash match	$0	0.0%	$0	0.0%
		Subtotal CWF Grant Webster Wetland Restoration	**$67,000**	**2.7%**	**$67,000**	**2.4%**
CWF Grant (BWSR) Technical Assistance and Cost Share	1	Technical Assistance and Cost Share (TACS)	$17,700	0.7%	$17,700	0.6%
-2170020845	2	VRWJPO cash match	$1,800	0.1%	$1,800	0.1%
		Subtotal CWF Grant Technical Assistance and Cost Share Program	**$19,500**	**0.8%**	**$19,500**	**0.7%**

VRWJPO Final Draft 2021 Budget

Category		Budget Items	2021 Draft Budget Amount	Budget % of Total	2020 Revised Budget Amount	Budget % of Total
CWF Grant (BWSR) Imminent Health Threat Septic Upgrades	1	Imminent Health Threat Septic Upgrades	$8,000	0.3%	$8,000	0.3%
-2170020846	2	VRWJPO cash match	$0	0.0%	$0	0.0%
		Subtotal CWF Grant Imminent Health Threat Septic Upgrades	**$8,000**	**0.3%**	**$8,000**	**0.3%**
CWF Grant (BWSR) Records Trail/ Grade Control	1	Records Trail/ Grade Control Structures	$0	0.0%	$30,000	
-2170020849	2	VRWJPO cash match	$0	0.0%	$10,000	
		Subtotal CWF Grant Records Trail/ Grade Control	**$0**	**0.0%**	**$40,000**	
CWF Grant (BWSR) 21st Street Ravine Outlet	1	21st Street (Hastings) Ravine Outlet Modification	$36,900	1.5%	$73,800	
-2170020850	2	VRWJPO cash match	$36,900	1.5%	$73,800	
		Subtotal CWF Grant 21st Street Ravine Outlet	**$73,800**	**2.9%**	**$147,600**	
CWF Grant (BWSR) Vermillion Falls Park Bioretention	1	Vermillion Falls Park Bioretention Basin	$7,475	0.3%	$14,950	
-2170020851	2	VRWJPO cash match	$11,025	0.4%	$22,050	
		Subtotal CWF Grant Vermillion Falls Park Bioretention	**$18,500**	**0.7%**	**$37,000**	
CPL Grant (DNR) South Creek at Hamburg	1	South Creek Restoration at Hamburg Ave (Buddy's Kitchen)	$0	0.0%	$25,000	0.9%
-2170020847	2	VRWJPO in-kind	$0	0.0%	$1,000	0.0%
		Subtotal CPL Grant South Creek Restoration at Hamburg Avenue	**$0**	**0.0%**	**$26,000**	**0.9%**
CWF Grant (BWSR)	1	WBF Grant Admin	$12,500	0.5%	$5,000	0.2%
-2170020848				0.0%		0.0%
		Subtotal WBF Grant Admin	**$12,500**	**0.5%**	**$5,000**	**0.2%**

VRWJPO Final Draft 2021 Budget

Category	Budget Items	2021 Draft Budget Amount	Budget % of Total	2020 Revised Budget Amount	Budget % of Total
	Subtotal of Expenditures	**$2,306,150**	**92.0%**	**$2,577,510**	**93.2%**
	Cash Reserve	**$201,250**	**8.0%**	**$188,290**	**6.8%**
	TOTAL Annual Expenses	**$2,507,400**	**100.0%**	**$2,765,800**	**100.0%**

VRWJPO Final Draft 2021 Budget

Category	Budget Items	2021 Draft Budget Amount	Budget % of Total	2020 Revised Budget Amount	Budget % of Total
REVENUE					
	MetC Grant	$0	0.0%	$0	0.0%
	CIP Reserve	$220,000	8.8%	$257,250	9.3%
	CIP Reserve Grant Match	$152,950	6.1%	$292,410	
	Fund Balance from Underspending in Previous Year	$225,000	9.0%	$569,240	20.6%
	CPL Grant (DNR) South Creek at Hamburg	$0	0.0%	$25,000	0.9%
	CPL Grant (DNR) Flagstaff	$0	0.0%	$0	0.0%
	CWF Grant (BWSR)	$380,000	15.2%	$440,000	15.9%
	CWF Grant WBIF (BWSR) 2019-2021	$263,350	10.5%	$159,400	5.8%
	CWF Grant WBIF (BWSR) 2020-2023	$243,600	9.7%		
	Dakota County AIS Grant	$0	0.0%	$0	0.0%
	City of Lakeville AIS grant match	$0	0.0%	$0	0.0%
	Fees for Permitting Activities	$2,500	0.1%	$2,500	0.1%
	Dakota County Levy	$966,650	38.6%	$966,000	34.9%
	Scott County Levy	$33,350	1.3%	$34,000	1.2%
	Investment Earnings	$20,000	0.8%	$20,000	0.7%
	TOTAL Annual Revenue	**$2,507,400**	**100.0%**	**$2,765,800**	**100.0%**

Vermillion River Watershed Management Tax District
Estimated Pay 2021 Taxes * (Dakota County)

Attachment B

Residential Property

Market	Tax	Proposed 2021 Levy								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	$966,650	$1,000,000	$1,250,000	$1,500,000	$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		0.0848%	0.1280%	0.1713%	0.2794%	0.3731%	0.3875%	0.4957%	0.6038%	0.3990%	0.4030%	0.4290%	0.4490%	0.4490%	0.4660%	0.5450%	0.5430%	0.5410%	0.5550%	0.5660%	0.4323%
Various Values																					
$150,000	1,263	$1.07	$1.62	$2.16	$3.53	$4.71	$4.89	$6.26	$7.62	$5.04	$5.09	$5.42	$5.67	$5.67	$5.88	$6.88	$6.86	$6.83	$7.01	$7.15	$5.46
$170,514	1,486	$1.26	$1.90	$2.55	$4.15	$5.55	$5.76	$7.37	$8.97	$5.93	$5.99	$6.38	$6.67	$6.67	$6.93	$8.10	$8.07	$8.04	$8.25	$8.41	$6.42
$185,000	1,644	$1.39	$2.10	$2.82	$4.59	$6.13	$6.37	$8.15	$9.93	$6.56	$6.63	$7.05	$7.38	$7.38	$7.66	$8.96	$8.93	$8.89	$9.12	$9.31	$7.11
$190,000	1,699	$1.44	$2.17	$2.91	$4.75	$6.34	$6.58	$8.42	$10.26	$6.78	$6.85	$7.29	$7.63	$7.63	$7.92	$9.26	$9.22	$9.19	$9.43	$9.61	$7.34
$200,000	1,808	$1.53	$2.31	$3.10	$5.05	$6.74	$7.00	$8.96	$10.91	$7.21	$7.28	$7.75	$8.12	$8.12	$8.42	$9.85	$9.82	$9.78	$10.03	$10.23	$7.81
$210,000	1,917	$1.62	$2.45	$3.28	$5.35	$7.15	$7.43	$9.50	$11.57	$7.65	$7.72	$8.22	$8.61	$8.61	$8.93	$10.45	$10.41	$10.37	$10.64	$10.85	$8.29
$225,000	2,080	$1.76	$2.66	$3.56	$5.81	$7.76	$8.06	$10.31	$12.56	$8.30	$8.38	$8.92	$9.34	$9.34	$9.69	$11.34	$11.29	$11.25	$11.54	$11.77	$8.99
$275,000	2,625	$2.23	$3.36	$4.50	$7.33	$9.79	$10.17	$13.01	$15.85	$10.47	$10.58	$11.26	$11.79	$11.79	$12.23	$14.31	$14.25	$14.20	$14.57	$14.86	$11.35
$279,600	2,675	$2.27	$3.42	$4.58	$7.47	$9.98	$10.37	$13.26	$16.15	$10.67	$10.78	$11.48	$12.01	$12.01	$12.47	$14.58	$14.53	$14.47	$14.85	$15.14	$11.57
$292,100	2,811	$2.38	$3.60	$4.82	$7.86	$10.49	$10.90	$13.94	$16.98	$11.22	$11.33	$12.06	$12.62	$12.62	$13.10	$15.32	$15.27	$15.21	$15.60	$15.91	$12.15
$300,000	2,898	$2.46	$3.71	$4.96	$8.10	$10.81	$11.23	$14.36	$17.50	$11.56	$11.68	$12.43	$13.01	$13.01	$13.50	$15.79	$15.73	$15.68	$16.08	$16.40	$12.53
$325,000	3,170	$2.69	$4.06	$5.43	$8.86	$11.83	$12.28	$15.71	$19.14	$12.65	$12.78	$13.60	$14.23	$14.23	$14.77	$17.28	$17.21	$17.15	$17.59	$17.94	$13.70
$350,000	3,443	$2.92	$4.41	$5.90	$9.62	$12.84	$13.34	$17.06	$20.79	$13.74	$13.87	$14.77	$15.46	$15.46	$16.04	$18.76	$18.69	$18.62	$19.11	$19.49	$14.88
$375,000	3,715	$3.15	$4.76	$6.36	$10.38	$13.86	$14.40	$18.41	$22.43	$14.82	$14.97	$15.94	$16.68	$16.68	$17.31	$20.25	$20.17	$20.10	$20.62	$21.03	$16.06
$400,000	3,988	$3.38	$5.11	$6.83	$11.14	$14.88	$15.45	$19.76	$24.08	$15.91	$16.07	$17.11	$17.90	$17.90	$18.58	$21.73	$21.65	$21.57	$22.13	$22.57	$17.24
$425,000	4,250	$3.60	$5.44	$7.28	$11.87	$15.86	$16.47	$21.07	$25.66	$16.96	$17.13	$18.23	$19.08	$19.08	$19.81	$23.16	$23.08	$22.99	$23.59	$24.06	$18.37
$450,000	4,500	$3.81	$5.76	$7.71	$12.57	$16.79	$17.44	$22.30	$27.17	$17.96	$18.14	$19.31	$20.21	$20.21	$20.97	$24.53	$24.44	$24.35	$24.98	$25.47	$19.45
$475,000	4,750	$4.03	$6.08	$8.14	$13.27	$17.72	$18.41	$23.54	$28.68	$18.95	$19.14	$20.38	$21.33	$21.33	$22.14	$25.89	$25.79	$25.70	$26.36	$26.89	$20.53
$500,000	5,000	$4.24	$6.40	$8.56	$13.97	$18.66	$19.38	$24.78	$30.19	$19.95	$20.15	$21.45	$22.45	$22.45	$23.30	$27.25	$27.15	$27.05	$27.75	$28.30	$21.62

*Estimated TCAP (as of 06/23/2020)	231,210,466
Pay 2020 Median Value: 279,600	
Pay 2021 Median Value: 292,100	

WHAT IF TAX COMPARISON PAY 2020 vs Pay 2021

Attachment C

FISCAL YEAR 2020			
8,048,460	TAX CAPACITY	$ 34,000	**FINAL CERTIFIED LEVY**
(8,785)	10% KV TRANS LINE (-)		
(375,742)	FISCAL DISPARITY (-)	$ (3,289)	FISCAL DISPARITY (-)
7,663,933	NET TAX CAPACITY	$ 30,711	TAX LEVY OR SPREAD LEVY
	Tax Rate	**0.401%**	

FISCAL YEAR 2021			
8,414,302	TAX CAPACITY	$ 33,350	**PROPOSED LEVY OR CERTIFIED LEVY**
(8,785)	10% KV TRANS LINE (-)		
(414,046)	FISCAL DISPARITY (-)	$ (3,289)	FISCAL DISPARITY (-)
7,991,471	NET TAX CAPACITY	$ 30,061	TAX LEVY OR SPREAD LEVY
as of 6/24/2020	**Tax Rate**	**0.376%**	

RESIDENTIAL IMPACTS

											Pay 2020	Pay 2021			Median & Average Values			
	% Value Range Inc/Dec	# of affected Properties	Average Market Value 2020	Average Market Value 2021	Value Exclusion 2020	Taxable Market Value 2020	Value Exclusion 2021	Taxable Market Value 2021	Taxable % Chg 20-21	Net Payable 2020	Net Payable 2021	Net Inc/Dec 2020 vs 2021	Net Difference % Change	2020 Median Values	2021 Median Values	2021 Average Values	2021 Value % Change
Elko New Mrkt City	+15.01+%	25	$ 294,400	$ 338,560	$ 10,744	$ 283,656	$ 6,770	$ 331,790	16.97%	$ 11.37	$ 12.48	$ 1.11	9.801%	$ 298,800	$ 307,400	$ 301,300	2.9%
1498	+10.01-15.00%	28	$ 294,400	$ 331,200	$ 10,744	$ 283,656	$ 7,432	$ 323,768	14.14%	$ 11.37	$ 12.18	$ 0.81	7.146%				
	+5.01-10.00%	175	$ 294,400	$ 316,480	$ 10,744	$ 283,656	$ 8,757	$ 307,723	8.48%	$ 11.37	$ 11.58	$ 0.21	1.836%				
	+0.01-5.00%	995	$ 294,400	$ 301,760	$ 10,744	$ 283,656	$ 10,082	$ 291,678	2.83%	$ 11.37	$ 10.97	$ (0.39)	-3.473%				
	No Change	26	$ 294,400	$ 294,400	$ 10,744	$ 283,656	$ 10,744	$ 283,656	0.00%	$ 11.37	$ 10.67	$ (0.70)	-6.128%				
	-0.01-5.00%	236	$ 294,400	$ 287,040	$ 10,744	$ 283,656	$ 11,406	$ 275,634	-2.83%	$ 11.37	$ 10.37	$ (1.00)	-8.783%				
	-5.01-10%	12	$ 294,400	$ 272,320	$ 10,744	$ 283,656	$ 12,731	$ 259,589	-8.48%	$ 11.37	$ 9.76	$ (1.60)	-14.093%				
	-10.01-15%	0	$ 294,400	$ 257,600	$ 10,744	$ 283,656	$ 14,056	$ 243,544	-14.14%	$ 11.37	$ 9.16	$ (2.21)	-19.403%				
	-15.01+	1	$ 294,400	$ 250,240	$ 10,744	$ 283,656	$ 14,718	$ 235,522	-16.97%	$ 11.37	$ 8.86	$ (2.51)	-22.058%				
New Market Twp	+15.01+%	18	$ 464,000	$ 533,600	$ -	$ 464,000	$ -	$ 533,600	15.00%	$ 18.59	$ 20.39	$ 1.79	9.652%	$ 443,300	$ 452,300	$ 472,000	2.0%
1125	+10.01-15.00%	16	$ 464,000	$ 522,000	$ -	$ 464,000	$ -	$ 522,000	12.50%	$ 18.59	$ 19.84	$ 1.25	6.718%				
	+5.01-10.00%	150	$ 464,000	$ 498,800	$ -	$ 464,000	$ -	$ 498,800	7.50%	$ 18.59	$ 18.76	$ 0.17	0.912%				
	+0.01-5.00%	638	$ 464,000	$ 475,600	$ -	$ 464,000	$ -	$ 475,600	2.50%	$ 18.59	$ 17.89	$ (0.70)	-3.782%				
	No Change	14	$ 464,000	$ 464,000	$ -	$ 464,000	$ -	$ 464,000	0.00%	$ 18.59	$ 17.45	$ (1.14)	-6.128%				
	-0.01-5.00%	223	$ 464,000	$ 452,400	$ -	$ 464,000	$ -	$ 452,400	-2.50%	$ 18.59	$ 17.02	$ (1.58)	-8.475%				
	-5.01-10%	42	$ 464,000	$ 429,200	$ -	$ 464,000	$ -	$ 429,200	-7.50%	$ 18.59	$ 16.14	$ (2.45)	-13.169%				
	-10.01-15%	16	$ 464,000	$ 406,000	$ -	$ 464,000	$ 700	$ 405,300	-12.65%	$ 18.59	$ 15.25	$ (3.35)	-18.004%				
	-15.01+	8	$ 464,000	$ 394,400	$ -	$ 464,000	$ 1,744	$ 392,656	-15.38%	$ 18.59	$ 14.77	$ (3.82)	-20.562%				
County Wide		**45,527**	**$ 326,500**	**$ 339,400**	**$ 7,855**	**$ 318,645**	**$ 6,694**	**$ 332,706**	**4.41%**	**$ 12.77**	**$ 12.52**	**$ (0.25)**	**-1.986%**	**$ 289,700**	**$ 303,800**	**$ 339,400**	**4.9%**

5b. Approval of Submittal of an Amendment and Schedule a Public Hearing of the Vermillion River Watershed Joint Powers Organization Watershed Management Plan to the Board of Water & Soil Resources

Meeting Date:	12/3/2020	
Item Type:	Regular-Action	
Contact:	Mark Zabel	
Telephone:	952-891-7011	
Prepared by:	Melissa Bokman Ermer	
Reviewed by:	N/A	N/A

PURPOSE/ACTION REQUESTED

- Approval of Submittal of an Amendment and Schedule a Public Hearing of the Vermillion River Watershed Joint Powers Organization Watershed Management Plan to the Board of Water & Soil Resources (BWSR)

SUMMARY

The BWSR has facilitated meetings of representatives from eligible participating watershed organizations, counties, soil and water conservation districts, and municipalities within the Vermillion River Watershed regarding the Watershed Based Implementation Funding Program (WBIF). The WBIF work group representatives submitted projects for review and ranking for potential funding for the FY21-2022 Funding Biennium. The Scott Soil & Water Conservation District submitted a project for the Bemis Wetland restoration to reconstruct the dam and water level controls to ensure the function of the structure.

Project Description

An existing dam structure in Section 10, New Market Township, is in imminent threat of failure. Built 50 years ago, the structure converted a pastured, Type 1/2 wetland into a Type 4/5 open water wetland with a 24-acre pool area. This pool serves to improve water quality in the Vermillion River by providing increased storage and retention of runoff from its 238-acre watershed. Increased retention time allows settling and immobilization of sediment and nutrients. It also serves to reduce runoff volumes and peak discharge rates, which reduces potential for scouring and erosion of downstream channels. The original construction details are unknown; it is reasonable to assume, however, that neither the berm nor the outlet pipe meet current practice standards and specifications.

If the berm and outlet structure are not reconstructed, catastrophic failure is imminent. An estimated 53 acre-feet of water will be released instantly, likely resulting in significant scouring of the receiving outlet ditch and the Vermillion River approximately 2500 feet downstream. The primary purpose of this project is to not only maintain but also enhance the water quality benefits provided by the structure. Enhancement will result from replacement of the existing, single-stage outlet structure with a new, multi-stage water level control structure. The earthen berm will also be reconstructed, either completely or just the section where the new outlet structure will be placed, depending on what is discovered during the yet-to-be-completed geotechnical/engineering assessment.

Water quality benefits will result from enhanced storage capacity of the wetland basin resulting in increased capture, settling and immobilization of sediment (TSS) and associated nutrients (N and P). Modeling is being completed using BWSR's Prioritize, Target, and Measure (PTM) Application.

The reduction of runoff volumes and peak flows will further improve water quality by increasing geomorphic stability of the downstream system, thus reducing potential for near-channel erosion. The occurrence of these

benefits is widely accepted, but from a practical perspective cannot be calculated. Instead, a flood routing analysis was completed using HydroCAD. There are three different feasible construction options that result in increased storage, therefore increased water quality. Additional Minnesota Department of Natural Resources requirements depending on the design option would require flowage easements or approval by affected landowners.

This waterbody is a public water wetland #70-293W. On October 16, 2020, Mark Zabel and Melissa Bokman Ermer met at the Bemis Wetland with the Scott Soil and Water Conservation District to discuss repair or reinstallation of the berm and outlet structure using WBIF funding.

The total cost estimate of the project is $30,000. The grant fund request is $22,500 with $7,500 in non-state match.

Projects submitted to BWSR for final approval for the FY21-22 WBIF need to be in the implementation section of an eligible plan. The VRWJPO Watershed Management Plan is an eligible plan. We are requesting a recommendation to submit an amendment of the Watershed Plan to BWSR to include the Bemis Wetland into the implementation section and to schedule a public hearing on the amendment. There is no other funding source for the project.

EXPLANATION OF FISCAL/FTE IMPACT

There is no fiscal impact from this action.

Supporting Documents: **Previous Board Action(s):**

RESOLUTION

5f. Approve Submittal of an Amendment and Schedule a Public Hearing of the Vermillion River Watershed Joint Powers Organization Watershed Management Plan to the Board of Water & Soil Resources

WHEREAS, the Vermillion River Watershed Joint Powers Board adopted the 2016-2025 Vermillion River Watershed Management Plan in June 2016. The plan includes actions to protect and improve surface water and groundwater quality in the watershed, and;

WHEREAS, Watershed Plan amendments must adhere to a review process provided in Minn. Statutes 103B.231, subdivision 11, unless determined to be "minor" amendment. A minor amendment is one that; 1.) the Board of Water and Soil Resources (BWSR) has agreed are minor, 2.) Plan review authorities have had a 30-day comment period and consider the amendment minor, 3.) no county board has an objection to the amendment, 4.) the watershed management organization has issued a public notice and held a public meeting to explain the amendment, or 5.) the amendment has nothing to do with an approved and adopted county groundwater plan; and

WHEREAS, the Minnesota Legislature authorized BWSR to provide funding to local units of government for developing and implementing water management plans and making improvements on a watershed basis, also known as the Watershed Based Implementation Funding Program (WBIF), and;

WHEREAS, The BWSR has facilitated meetings of representatives from eligible participating watershed organizations, counties, soil and water conservation districts, and municipalities within the Vermillion River watershed, and;

WHEREAS, the WBIF representatives submitted local project ideas for ranking and scoring for the FY21-2022 Vermillion watershed funding allocation, and;

WHEREAS, the Scott Soil & Water Conservation District submitted the Bemis Wetland Restoration Project that is in imminent threat of failure, and staff feels this is a good project for the WBIF funding;

WHEREAS, Projects submitted to BWSR for final approval for the FY21-22 WBIF need to be in the implementation section of an eligible plan. The VRWJPO Watershed Management Plan is an eligible plan, and;

WHEREAS, the current Vermillion River Watershed Management Plan needs to be amended to add the Bemis Wetland project in the Implementation Section of its plan.

NOW, THEREFORE, BE IT RESOLVED, that the Vermillion River Watershed Joint Powers Board approves submittal of the Watershed Management Plan amendment to the Board of Water and Soil Resources and Watershed Plan Reviewers for a 30-day comment period.

RESOLVED FURTHER, that the Vermillion River Watershed Joint Powers Board schedule a public hearing on the proposed amendment to include the Bemis Wetland Restoration in the Implementation section of the Vermillion Watershed Management Plan.

Minutes

Vermillion River Watershed Planning Commission Meeting
November 18, 2020 - 3:30 p.m.
Zoom Videoconference

WPC Members in Attendance		Staff in Attendance	Others in Attendance
Josh Borton	Chuck Clanton	Mark Zabel, VRWJPO	Curt Coudron, Dakota County SWCD
Carolyn Miller	Mark Henry	Mark Ryan, VRWJPO	Joe Beattie, Hastings High School
Bruce Rydeen	Steve Hamrick	Jen Dullum, VRWJPO	Gabe Sanchez, Hastings HS Student
Tony Wotzka	Ken Betzold	Travis Thiel, VRWJPO	Carter Pechacek, Hastings HS Student
		Melissa Bokman Ermer, VRWJPO	

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1. Call to Order
The meeting was called to order by Commissioner Henry at 3:32 p.m. Roll call was taken.

2. Audience Comments on Items Not on the Agenda
None

3. Approval of Agenda

Motion by Commissioner Clanton, second by Commissioner Borton, to approve the agenda. The agenda was unanimously approved by 7-0 roll call.

Commissioner Hamrick joined the meeting.

4. Approval of Minutes

Motion by Commissioner Clanton, second by Commissioner Rydeen*, to approve the minutes of the August 12, 2020, meeting. The minutes were unanimously approved by 8-0 roll call vote.*

5. Business Items
5a. Joe Beattie's Field Biology Class
Commissioners and meeting participants introduced themselves for the benefit of the students present. Joe Beattie introduced two of his high school field biology students and their presentation. High School seniors Carter Pechacek and Gabe Sanchez gave a presentation on their benthic macroinvertebrate study. Data gathered from their research can be used to interpret the health of the river ecosystem of the Vermillion River. Generally, the macroinvertebrates collected show diversity and mix of tolerant and

sensitive species, suggesting the Vermillion River is in good condition. Joe Beattie has nearly 20 years' worth of data that suggest generally stable or increasing trends in the river health.

Commissioner Henry thanked the students for the great work. He feels the South Branch is still considered the coldest stream in the Vermillion. Species sampling has proved successful for important macroinvertebrates and minnows. Joe Beattie sees brown trout which is very hopeful. Mark Zabel asks what the students plans are after high school. Gabe will be attending the University of Minnesota as a biology major with thoughts of graduate school to become optometrist. Carter will likely be a biological science major with thoughts of either a medical school path or something more specific in biology. Commissioner Miller thanked the students for their presentation.

Presentation attached.

5b. Recommendation to Adopt the VRWJPO 2021 Final Draft Budget
Mark Zabel presented the final draft budget and discussed any changes since the August preliminary budget meeting. Changes occurred with the Watershed Based Implementation Funding and Capital Improvement Projects. For the 2020-2023 Watershed Based Implementation Funding, some of the grant funding will be managed directly by project partners, so the amount of grant funding in the VRWJPO budget has been reduced accordingly.

Motion by Commissioner Borton, second by Commissioner Clanton, to recommend adoption of the Vermillion River Watershed 2021 Final Draft Budget. The motion passed on an 8-0 roll-call vote.

5c. Chuck Clanton – Where Are They Now? (Student Update)
Commissioner Clanton gave a presentation on past University of Minnesota students that have attended student tours that the Dakota County Soil and Water Conservation District (SWCD) and the Vermillion River Watershed Joint Powers Organization (VRWJPO) have participated in. These students all have interests in water resources. Commissioner Clanton explained where these students are now and how they are advancing all aspects of ecological engineering in their careers. Commissioner Clanton thanked Curt Coudron, Travis Thiel, Mark Ryan, and Brian Watson. Commissioner Henry thanked Commissioner Clanton for his work.

Presentation attached.

5d. Progress Update on Recent Construction Projects
Mark Ryan went over three recent projects within the Vermillion River Watershed. The first project was completed by Dakota County. This stream bank restoration project on the Vermillion Park Conservation Area (PCA) in Empire Township took place this summer. The VRWJPO provided funding for the project design and construction oversight as well as staff time for project management and coordination. Construction began in May but was primarily done from late July through early September due to early summer rains. Eight bank improvement projects were completed on reaches of the river in the PCA and on adjacent private landowner property to stabilize the stream and eliminate a meander cut-off. Live staking of the banks was finished in late October to provide additional vegetation and stabilization.

Commissioner Wotzka asked about the bank planting. Fast growing oats have already come up, but native seed has been added. Live willow and red osier dogwood stakes were also used for stabilization.

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Next, the VRWJPO worked with the SWCD to complete the Records Trail Grade Stabilization project in September. Erosion in a waterway in Ravenna Township (draining to Etter Creek) caused a more than 10-foot deep ravine/head-cut to occur. The project involved removal of brush and overgrowth trees and the grading of more than 1,000 feet of waterway. Three rock chute drop structures were installed in the waterway to provide stable drops in elevation. A grass mix including natives and agricultural grass types was used for stabilization to keep it stabilized and manageable for the landowner to maintain.

Commissioner Clanton asked about the slope and steep slopes in the area. Mark Ryan noted that the finished grade is between 1% and 6% depending on the section of channel and if it is a rock chute portion. There are very steep slopes on the surrounding hillsides adjacent to the project. 2019-2021 Watershed Based Funding was used for this project.

Lastly, Mark Ryan went through the Aronson Park stormwater reuse project in Lakeville. This project was started as part of the Dakota County 50-23 roadway project in 2019, but irrigation lines and other components were not done until 2020 due to the frequent heavy rains that impacted the entire project. The project involved regrading of a developer's wet pond to maximize storage for reuse, construction of a pump house with filtration system, and installation of irrigation lines. 2019-2021 Watershed Based Funding was used for this project.

Commissioner Clanton asked if any engineered erosion control products, including geosynthetics (plastic grid materials) for steep slopes, were used in the Records Trail project. Mark Ryan noted that none of the slopes were steep enough to warrant the use of engineered products. Travis Thiel mentioned another project area that might need additional stabilization where geosynthetics could be used, but that it is still to be determined. Commissioner Henry thanked Mark Ryan and Travis Thiel for their work on the recent nitrate treatment practice in Castle Rock Township.

5e. Approve the 2021 Vermillion River Watershed Planning Commission meeting dates
Mark Zabel shared the 2021 Watershed Planning Commission (WPC) meeting dates. Mark Zabel mentioned that there is one Dakota County WPC seat available and suggested discussing WPC meeting times at the January meeting. Reinstating later meeting times might help with recruitment of WPC members.

Motion by Commissioner Miller, second by Commissioner Rydeen, to approve the 2021 Vermillion River Watershed Planning Commission meeting dates. The motion passed on an 8-0 roll-call vote.

Commissioners Rydeen and Hamrick left the meeting.

5f. Recommendation to Approve Submittal of an Amendment of the Vermillion River Watershed Joint Powers Organization Watershed Management Plan to the Board of Water & Soil Resources
Mark Zabel began by noting that this project applied for Watershed Based Implementation Funding. For the project to be eligible it must be in an eligible plan. Currently it is not in the VRWJPO Watershed Plan (Plan). The project will need to be put in the Plan and the Board of Water and Soil Resources (BWSR) will have to approve it.

Melissa Bokman Ermer went over project location and description. Currently an existing dam structure in New Market Township, is in imminent threat of failure. Built 50 years ago, the structure converted a pastured wetland into an open water wetland with a 24-acre pool area. This pool serves to improve water quality in the Vermillion River by providing increased storage and retention of runoff from its 238-

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acre subwatershed. Increased retention time allows settling and immobilization of sediment and nutrients. It also serves to reduce runoff volumes and peak discharge rates, which reduces potential for scouring and erosion of downstream channels.

If the berm and outlet structure are not reconstructed, catastrophic failure is believed to be imminent. An estimated 53 acre-feet of water will be released instantly, likely resulting in significant scouring of the receiving outlet ditch and the Vermillion River approximately 2,500 feet downstream. The primary purpose of this project is to not only maintain but enhance the water quality benefits provided by the structure. Enhancement will result from replacement of the existing, single-stage outlet structure with a new, multi-stage water level control structure. The earthen berm will be also be reconstructed, either completely or just the section where the new outlet structure will be placed, depending on what is discovered during the yet-to-be-completed geotechnical/engineering assessment.

Water quality benefits will result from enhanced storage capacity of the wetland basin resulting in increased capture, settling and immobilization of sediment (TSS) and associated nutrients (N and P).

Commissioner Miller questioned where the current outlet connects to the Vermillion River. Melissa Bokman Ermer noted that the open water wetland is connect toed a drainage ditch which flows to the Vermillion River. Commissioner Henry asked if this is a case of long-term degradation or a sudden issue. Melissa Bokman Ermer thinks this is a recent development. Mark Ryan accompanied Scott County staff on a recent site visit. He believes it is a case of a 50-60+ year project that needs repairs / replacement. Commissioner Clanton asked why there is no fiscal impact to the budget. Mark Zabel noted that there is no fiscal impact due to match money being applied from monies already allocated to Scott SWCD in the budget. There would be no change to VRWJPO budget for this project.

Motion by Commissioner Clanton, second by Commissioner Betzold, to recommend approval to submit an Amendment of the Vermillion River Watershed Joint Powers Organization Watershed Management Plan to the Board of Water & Soil Resources. The motion passed on an 6-0 roll-call vote.

6. Updates

6a. Chairperson's Report

Commissioner Henry mentioned a well permit submittal by the Minnesota Department of Agriculture for monitoring wells that will further investigate nitrates in the South Branch Vermillion River. He also noted that the Dakota County Fairgrounds secured a Conservation Partners Legacy (CPL) grant for tree and buckthorn removal that started last week.

Commissioner Clanton asked if the newly planned 72-acre Amazon distribution center will have an impact on the Vermillion River or surrounding tributaries. Mark Zabel stated that the company will have to meet VRWJPO standards, though the review will be done by the City of Lakeville. The VRWJPO will likely be able to review and comment on plans through the City.

6b. Staff Updates

Mark Ryan will give a more formal Watershed Based Implementation Funding presentation when the projects that will be funded by the BWSR are confirmed.

7. Adjourn

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Motion by Commissioner Clanton, second by Commissioner Betzold, to adjourn the meeting at 5:27p.m. The motion passed on an 6-0 roll-call vote.

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