



## Grant All-Detail Report Watershed Based Implementation JAN 2021

**Grant Title** - 2021 Metro WBIF - Vermillion River (Dakota SWCD)

**Grant ID** - C21-3345

**Organization** - Dakota SWCD

<b>Original Awarded Amount</b>	<b>\$84,915.00</b>	<b>Grant Execution Date</b>	<b>3/18/2021</b>
<b>Required Match Amount</b>	\$8,491.50	<b>Original Grant End Date</b>	12/31/2023
<b>Required Match %</b>	10%	<b>Grant Day To Day Contact</b>	Lana Rotty
<b>Current Awarded Amount</b>	\$84,915.00	<b>Current End Date</b>	12/31/2023

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$84,915.00	\$3,402.15	\$81,512.85
Total Match Amount	\$8,492.00	\$0.00	\$8,492.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$93,407.00</b>	<b>\$3,402.15</b>	<b>\$90,004.85</b>

\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Administration	Administration /Coordination	Current State Grant	2021 Metro WBIF - Vermillion River (Dakota SWCD)	\$3,915.00	\$150.92	12/31/2021	N
Ag BMPs in the Upper Mainstem and South Branch subwatersheds	Agricultural Practices	Current State Grant	2021 Metro WBIF - Vermillion River (Dakota SWCD)	\$9,000.00			N
Landowner Contributions	Agricultural Practices	Landowner Fund	Landowner Fund	\$2,250.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Local Funds	Administration /Coordination	Local Fund	Local Fund	\$6,242.00			Y
Nitrate Reduction BMPs	Non-Structural Management Practices	Current State Grant	2021 Metro WBIF - Vermillion River (Dakota SWCD)	\$13,000.00			N
Project Development	Project Development	Current State Grant	2021 Metro WBIF - Vermillion River (Dakota SWCD)	\$25,000.00	\$2,133.18	12/31/2021	N
Subwatershed Analysis (SWA)	Planning and Assessment	Current State Grant	2021 Metro WBIF - Vermillion River (Dakota SWCD)	\$27,000.00	\$1,118.05	12/31/2021	N
Technical Assistance and Engineering	Technical/Engineering Assistance	Current State Grant	2021 Metro WBIF - Vermillion River (Dakota SWCD)	\$7,000.00			N

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
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### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
<b>Ag BMPs in the Upper Mainstem and South Branch subwatersheds</b>	SEDIMENT (TSS)	9 TONS/YR	Vermillion River, Upper Mainstem and South Branch	BWSR CALC (GULLY STABILIZATION)	

### Final Indicators Summary

Indicator Name	Total Value	Unit
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## Grant Activity

Grant Activity - Administration		
Description	SWCD staff will manage the grant funds and local match to include budgeting, tracking employee time and billable rates, referencing BWSR Grants Administration Manual, providing interim and final eLINK reports, financial record keeping and communication on grant status and achievements.	
Category	ADMINISTRATION/COORDINATION	
Start Date	18-Mar-21	End Date
Has Rates and Hours?	Yes	
Actual Results	This grant was executed on March 18, 2021. Grant funds were paid on March 23, 2021. Grant activity is reported.	

**Grant Activity - Ag BMPs in the Upper Mainstem and South Branch subwatersheds**

<p><b>Description</b></p>	<p>Installation of Ag BMPs targeted based on locations identified in SWAs for the Vermillion River Upper Main Stem and South Branch subwatershed in the metro WBIF Vermillion River watershed. Funds will be used to provide installation cost share and annual incentive payments to landowners. Prioritization and funding for projects will be provided through Dakota SWCD’s established cost share programs according to SWCD adopted Cost Share policy and BWSRs grant administration manual. BMPs would include structural practices and nonstructural practices when that BMP type was identified within the completed SWA. Potential practices in SWA include: cover crop, critical area planting, filter strip (portions exceeding Buffer Law requirements), grade stabilization structure, grassed waterway, and water and sediment control basin. Structural BMPs will have a lifespan of 10 years. Non-structural BMPs such as cover crops will have a lifespan of 3 years. Landowners will be responsible for O&amp;M on practices.</p> <p>Year 1 Milestone: Survey and developing final designs and contracts will be completed through project development activity.</p> <p>Practices are estimated to reduce sediment loading by 9 tons each year.</p> <p>Year 2 Milestones: Complete designs, finalize contracts and cost share approval by SWCD board, implement practices, and certify projects.</p> <p>Year 3 Milestone: Continue to implement practices. Finalize projects and landowner payments.</p>	
<p><b>Category</b></p>	<p>AGRICULTURAL PRACTICES</p>	
<p><b>Start Date</b></p>	<p>18-Mar-21</p>	<p><b>End Date</b></p>
<p><b>Has Rates and Hours?</b></p>	<p>No</p>	
<p><b>Actual Results</b></p>		

### Grant Activity - Landowner Contributions

Description	Landowners will contribute funds to complete projects based on cost share amounts established in local policy. Landowner match is from the Ag BMPs in the Upper Mainstem and South Branch subwatersheds activity.		
Category	AGRICULTURAL PRACTICES		
Start Date	18-Mar-21	End Date	
Has Rates and Hours?	No		
Actual Results			

### Grant Activity - Local Funds

Description	Dakota County staff will provide in kind time. Direct funds will also be provided by Dakota County and the Vermillion River Watershed Joint Powers organization for items such as the Irrigation Water Management web-based tool development and incentives, outreach, planning, and certification of nitrate reduction BMPs and Ag BMPs in the Upper Mainstem and South Branch subwatersheds.		
Category	ADMINISTRATION/COORDINATION		
Start Date	18-Mar-21	End Date	
Has Rates and Hours?	No		
Actual Results			

**Grant Activity - Nitrate Reduction BMPs**

<p><b>Description</b></p>	<p>Install nitrate reduction agriculture BMPs including cover crops and perennial vegetation targeted to areas with high or very high groundwater sensitivity in the metro WBIF Vermillion River watershed.</p> <p>Perennial vegetation may include perennial native vegetation and non-native perennial crops. Non-native perennial crops will require prior approval by BWSR.</p> <p>Funds will be used to provide installation cost share and annual incentive payments to landowners. Prioritization and funding for projects will be provided through Dakota SWCD’s established cost share programs according to SWCD adopted Cost Share policy and BWSRs grant administration manual. Practices will be implemented for 3 years and landowners will be responsible for O&amp;M. Other lifespans will vary depending on practice type. An estimated 100 acres will be implemented and 368 lb of N will be prevented from leaching.</p> <p>Year 1 Milestone: Targeted outreach to landowners in high to very-high GW sensitivity areas and developing of plans and contracts will be completed through the project development activity.</p> <p>Year 2 Milestone: Implement practices.</p> <p>Year 3 Milestone: Continue to implement practices. Track acres/reductions and share with partners.</p>	
<p><b>Category</b></p>	<p>NON-STRUCTURAL MANAGEMENT PRACTICES</p>	
<p><b>Start Date</b></p>	<p>18-Mar-21</p>	<p><b>End Date</b></p>
<p><b>Has Rates and Hours?</b></p>	<p>No</p>	
<p><b>Actual Results</b></p>		

## Grant Activity - Project Development

<b>Description</b>	<p>Three activities require project development, including Ag BMPs in the Upper Mainstem and South Branch subwatersheds, irrigation water management (IWM), and implementing nitrate reduction BMPs.</p> <p>SWCD will coordinate with landowners to solicit and discuss BMP projects, conduct initial site assessments and field surveys, and develop designs prior to SWCD Board contract approval. SWCD staff with proper JAA will develop BMP recommendations that consider site specific opportunities and constraints, estimated project costs, pollutant reduction, installation timing, and available funding. Increase IWM by promoting tools and practices while also providing technical assistance. Tools may include the checkbook method and a new Irrigation Management Assistant (IMA) online tool. A private consultant may be hired for work on IWM tools. Irrigation work will be targeted in high to very-high groundwater sensitivity areas. Irrigation work will result in outreach to at least 30 irrigation operators.</p> <p>Project development is estimated at \$5,000 for developing Ag BMPs in the Upper Mainstem and South Branch, \$18,000 for Irrigation management, and \$2,000 for developing nitrate reduction BMPs. Broad estimate of this category is 40% marketing, 40% education, and 20% reporting.</p> <p>Year 1 Milestones: Build IWM outreach plan off past meetings and research. Initiate contract for irrigation scheduling web based tool development. For ag BMPs and nitrate BMPs, work with landowners to develop project plans and contracts.</p> <p>Year 2 Milestones: Promote IWM to producers especially in high to very-high GW sensitivity areas. Finish development of scheduling tool. Provide support for finding and using scheduling tools. Continue to work with landowners to develop project plans and contracts.</p> <p>Year 3 Milestones: Continue to promote and support IWM efforts. Continue to work with landowners to develop project plans and contracts. Track acres/reductions and share results with partners.</p>	
<b>Category</b>	PROJECT DEVELOPMENT	
<b>Start Date</b>	18-Mar-21	<b>End Date</b>
<b>Has Rates and Hours?</b>	Yes	
<b>Actual Results</b>	Consultant was hired to develop the Irrigation Management Assistant (IMA) tool. Meetings with consultant and partners to provide ideas/review. Tool is approximately 75% complete and is on schedule to launch by March 2022.	

## Grant Activity - Subwatershed Analysis (SWA)

<b>Description</b>	<p>The SWCD will complete one Subwatershed Analysis (SWA) including desktop analysis, field reconnaissance, cost-benefit ranking, and a final report. The SWA will identify and rank potential water quality improvement BMP opportunities within a subwatershed of the Lower Mainstem of the Vermillion River.</p> <p>Year 1 Milestone: Consult partners and select sub-watershed. Develop templates and maps.</p> <p>Year 2 Milestone: Complete desktop review and field work, meet with landowners, document projects, estimated costs, and potential pollutant reductions.</p> <p>Year 3 Milestone: Finalize report. Post and share with partners.</p>		
<b>Category</b>	PLANNING AND ASSESSMENT		
<b>Start Date</b>	18-Mar-21	<b>End Date</b>	
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>	Project coordination and scoping was started and involved meeting with staff from partnering organizations (VRWJPO) to prioritize subwatershed and pollutants of focus within the subwatershed. GIS data was gathered to start the desktop analysis and prepare maps for field reconnaissance.		



## Grant Activity - Technical Assistance and Engineering

<b>Description</b>	<p>Technical assistance and engineering includes staff time for project staking, final design, construction oversight, and final certification. This is applicable to Upper Mainstem and South Branch BMPs and to Nitrate Reduction BMPs. SWCD staff will provide technical assistance and engineering to include, but not limited to, construction staking, construction oversight, contractor coordination, construction inspections, and project certification. This activity will also include tasks needed to bring documentation to the SWCD Board for final payment approval and inspections needed to evaluate status of the project after project completion but within the grant term. District Technical Standards include, but are not limited to, the most current: USDA Field Office Technical Guide, MPCA Stormwater Manual, MPCA Protecting Water Quality in Urban Areas, NPDES General Stormwater Permit for Construction Activity, Minnesota Urban Small Sites BMP Manual, Dakota County Low Impact Development Standards, and applicable local, state and federal regulations. Dakota SWCD staff with proper JAA will review and approve projects. When a PE is required for practices above current technical capacity, the District will use PEs from our various partners or those with appropriate job approval authority. Grant funds for engineering are estimated at \$4,000 for Ag BMPs in the Upper Mainstem and South Branch subwatersheds and \$3,000 for nitrate reduction BMPs. It is anticipated 100% of this category will be completed by SWCD technical staff, but if JAA exceeds current JAA levels, some of this category may be used for professional engineering.</p> <p>Year 1 Milestones: Outreach, determining project locations, surveys, and design development will be completed through the project development activity.</p> <p>Year 2 Milestones: Provide construction oversight, project management, and certification for practices during installation.</p> <p>Year 3 Milestones: Construct and complete remaining practices.</p>		
<b>Category</b>	TECHNICAL/ENGINEERING ASSISTANCE		
<b>Start Date</b>	18-Mar-21	<b>End Date</b>	
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>			

## Grant Attachments

Document Name	Document Type	Description
<b>2021 Dakota County SWCD Cost Share Policy</b>	Grant	2021 Metro WBIF - Vermillion River (Dakota SWCD)

Document Name	Document Type	Description
<b>2021 Watershed Based Implementation Funding</b>	Grant Agreement	2021 Watershed Implementation Funding - Dakota SWCD
<b>2021 Watershed Based Implementation Funding EXECUTED</b>	Grant Agreement	2021 Watershed Implementation Funding - Dakota SWCD
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 01/25/2021
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 02/02/2021
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 03/10/2021