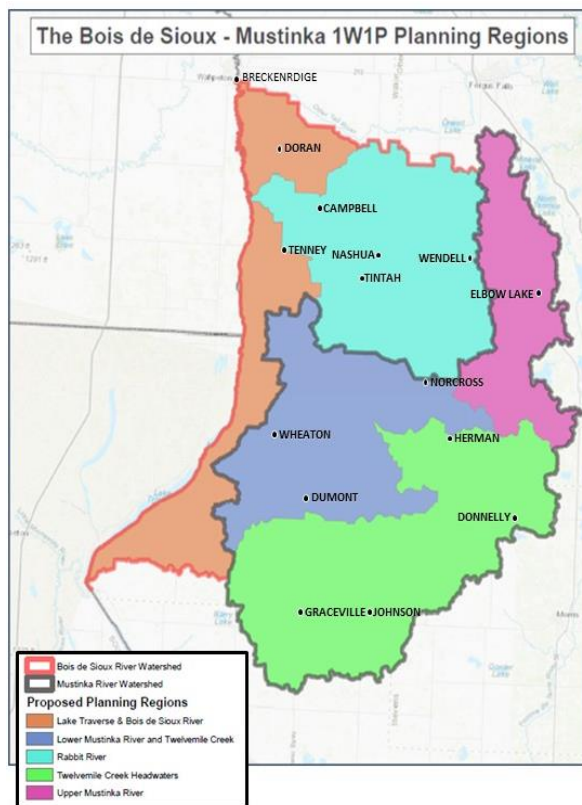


Plan Annual Update

IMPLEMENTATION YEAR TWO

On January 27, 2021, partners for Bois de Sioux and Mustinka River Watersheds published the Bois de Sioux – Mustinka Comprehensive Watershed Management Plan (2021 – 2030), with Appendices A - P. Following approval of the plan by the Board of Water and Soil Resources, all thirteen LGU partners adopted the plan by resolution, and Bois de Sioux Watershed District offered to serve as the watershed based implementation grant fund fiscal host. A portion of implementation has been facilitated by two Legacy Amendment BWSR Clean Water Fund Watershed Based Implementation Fund Grants (WBIF #1 2020 – 2023 & WBIF #2 2022 – 2025)

OTHER ADMINISTRATIVE TASKS: The Steering Committee continued to meet monthly, and the Policy Committee transitioned to a 3-to-4 meetings per year schedule. Documents and records continue to be shared on a Sharepoint website.



Water and Sediment Control Basins Installed by Grant SWCD



Plan Measureable Goals (Projects & Practices)

10-YEAR SHORT-TERM GOALS

These short-term measureable goals describe the interim conditions to accomplish during the 10-year timeframe of this plan.

EROSION & SEDIMENTATION	LAND USE MANAGEMENT			
Reduce Sediment by 3,770 tons/year	Soil Health Practices on 2,321 acres			
SURFACE WATER QUALITY	GROUNDWATER	ALTERED HYDROLOGY	FLOODING	DRAINAGE
Reduce Total Phosphorus by 1,255 lbs/year	Maintain 86 Wells with Safe Arsenic Levels	Install 34,505 acre-feet of Storage	Define Flood Risk for 3 Priority Communities	Stabilize 75 Miles of Public Ditches
Assess and Stabilize 23 Miles of Priority River or Stream Channels	Maintain 396 Wells with Safe Nitrate/Nitrogen Levels		Provide Flood Risk Reduction for 1-2 of At-Risk Priority Communities	Repair/Improve 75 Miles of Public Ditches
Install 3.66 Miles of Fencing 3 Priority Municipalities have a Stormwater Management Plan	Seal 240 Wells		Identify and Prioritize Most At-Risk Farmsteads Private Infrastructure and 50% are Protected with Ring Dikes	

WBIF Grant #1: C21-9685 - \$1,064,522

BWSR AGREEMENT: 2021 – 2023 (IN PROGRESS)

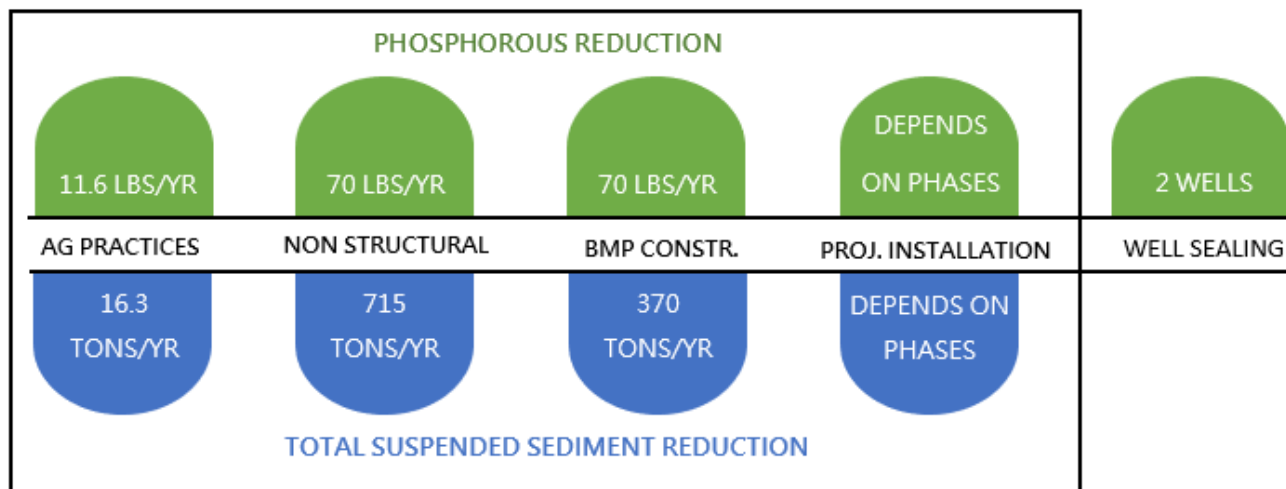
The first watershed based implementation funds grant agreement was signed by the Board of Water and Soils Resources on March 18, 2021.

PRIMARY GRANT SPONSORED ACTIVITIES

AGRICULTURAL PRACTICES	Fund approximately 19 filtration practice and 1 storage or protection practice. TARGET: Rabbit River and Lake Traverse Planning Regions; Contributing catchments, laterals, or private systems for TCD #52, JD #6
BMP CONSTN (JD #6)	Funds used to construct grade stabilization structures (side inlets) and continuous berms. TARGET: JD #6
PROJECT DEVELOPMENT (DORAN CREEK)	Funds used for Doran Creek restoration project development such as, but not limited to, sediment transport analysis to determine upland contributing areas for additional structural BMPs, consultation w/DNR to finalize the fluvial geomorphology design, development of engineer preliminary plans and cost estimate.
NON STRUCTURAL	Funds will be used to enroll acres in soil health and agricultural management practices such as, but not limited to, tillage reduction practices and cover crop utilization. TARGET: Rabbit River and Lake Traverse Planning Regions; Contributing catchments, laterals, or private systems for TCD #52, JD #6
PROJECT INSTALLATION (LTWQIP)	Funds used for phase 2 of 3 of the Lake Traverse Water Quality Improvement Project No. 1, stabilizing 1600' of a manmade channel adjacent to MN Highway 27. TARGET: Lake Traverse Planning Region
WELL SEALING	Funds used to provide well sealing according to locally adopted cost share policies.



Anticipated Measureable Outcomes for this Grant



WBIF #1 C21-9685 ACTIVITY As of December 31, 2021

The full matching funds for this grant were committed and spent by the Bois de Sioux Watershed District.

WBIF GRANT ACTIVITY	6/22 AMENDED GRANT BUDGET	SUM OF ACTUAL		REQUIRED MATCH	BUDGET REMAINING	
		EXPENDITURES PAID TO DATE				
Agricultural Practices	\$118,722.00	\$ 20,551.47	\$ -	\$ -	\$ 69,693.18	
BMP Construction (JD #6)	\$148,000.00	\$ 148,000.00	\$ -	\$ -	\$ -	DONE
Project Development (Doran Creek)	\$115,000.00	\$ 115,000.00	\$ -	\$ -	\$ -	DONE
Administration/Coordination*	\$25,000.00	\$ 11,622.00	\$ -	\$ -	\$ 13,378.00	
Non-Structural Management Practices	\$87,000.00	\$ 28,671.95	\$ -	\$ -	\$ 33,440.05	
Progress Tracking and Evaluation	\$10,000.00	\$ 3,260.00	\$ -	\$ -	\$ 6,740.00	
Project Development	\$194,000.00	\$ 71,652.78	\$ -	\$ -	\$ 122,347.22	
Project Installation/Const. (LTWQIP)	\$325,000.00	\$ -	\$ -	\$ -	\$ 325,000.00	
Project Installation/Const. (LTWQIP Cost Share)	\$106,452.00	\$ -	\$106,452.00	\$ -	\$ -	DONE
Technical/Engineering	\$41,000.00	\$ 9,658.91	\$ -	\$ -	\$ 31,341.09	
Well Sealing	\$800.00	\$ 800.00	\$ -	\$ -	\$ -	DONE
TOTAL WITHOUT MATCH	\$ 1,064,522.00	\$ 409,217.11	\$106,452.00	\$ -	\$ 601,939.54	



WATERSHED BASED IMPLEMENTATION FUNDS #1

C21-9685

3/19/21 - 12/31/23

RABBIT RIVER REDUCTIONS	
Sediment	484.98 tons/yr
Phosph Loading	478.92 lbs/yr
Permanent Easement	44.96 acres
Ditch Stabilized	9 miles
Ditch Adequacy	9 miles
Wells Sealed	0 wells
Soil Health	165.8 acres
Alt. Hydrology	12.71 acres

Retrofit & Cover Crops

LAKE TRAVERSE & BOIS DE SIOUX REDUCTIONS	
Sediment	249.83 tons/yr
Phosph Loading	77.5 lbs/yr
Permanent Easement	0 acres
Ditch Stabilized	0 miles
Ditch Adequacy	0 miles
Wells Sealed	2 wells
Soil Health	293.92 acres
Alt. Hydrology	41.15 acre-ft

Wells Sealed & Cover Crops

UPPER MUSTINKA REDUCTIONS	
Sediment	1.62 tons/yr
Phosph Loading	2.08 lbs/yr
Permanent Easement	0 acres
Ditch Stabilized	0 miles
Ditch Adequacy	0 miles
Wells Sealed	0 wells
Soil Health	0 acres
Alt. Hydrology	0 acre-ft

WASCOB

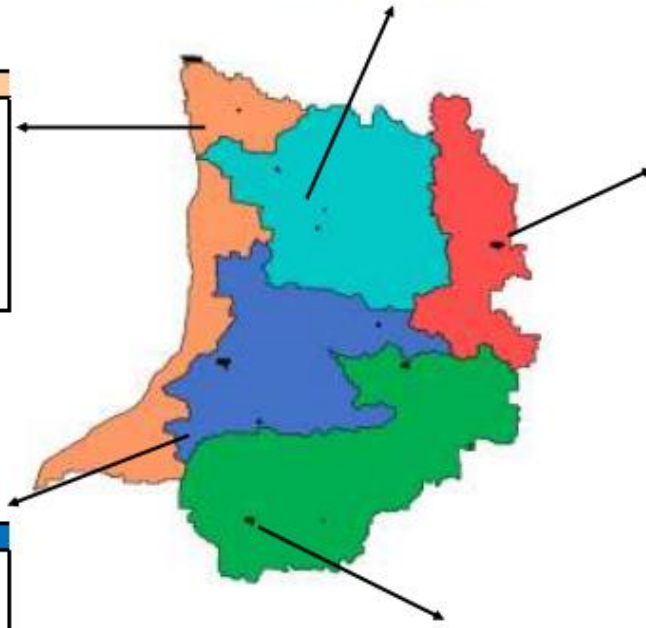
TOTAL REDUCTIONS	
Sediment	819.79 tons/yr
Phosph Loading	627.47 lbs/yr
Permanent Easement	44.96 acres
Ditch Stabilized	9 miles
Ditch Adequacy	9 miles
Wells Sealed	2 wells
Soil Health	741.72 acres
Alt. Hydrology	93.34 acre-ft

LOWER MUSTINKA & TWELVEMILE CREEK	
Sediment	76.27 tons/yr
Phosph Loading	64.86 lbs/yr
Permanent Easement	0 acres
Ditch Stabilized	0 miles
Ditch Adequacy	0 miles
Wells Sealed	0 wells
Soil Health	282 acres
Alt. Hydrology	39.48 acre-ft

Cover Crops

TWELVEMILE CREEK REDUCTIONS	
Sediment	7.09 tons/yr
Phosph Loading	4.11 lbs/yr
Permanent Easement	0 acres
Ditch Stabilized	0 miles
Ditch Adequacy	0 miles
Wells Sealed	0 wells
Soil Health	0 acres
Alt. Hydrology	0 acre-ft

WASCOB



WBIF Grant #2: C23-5729 - \$1,064,522

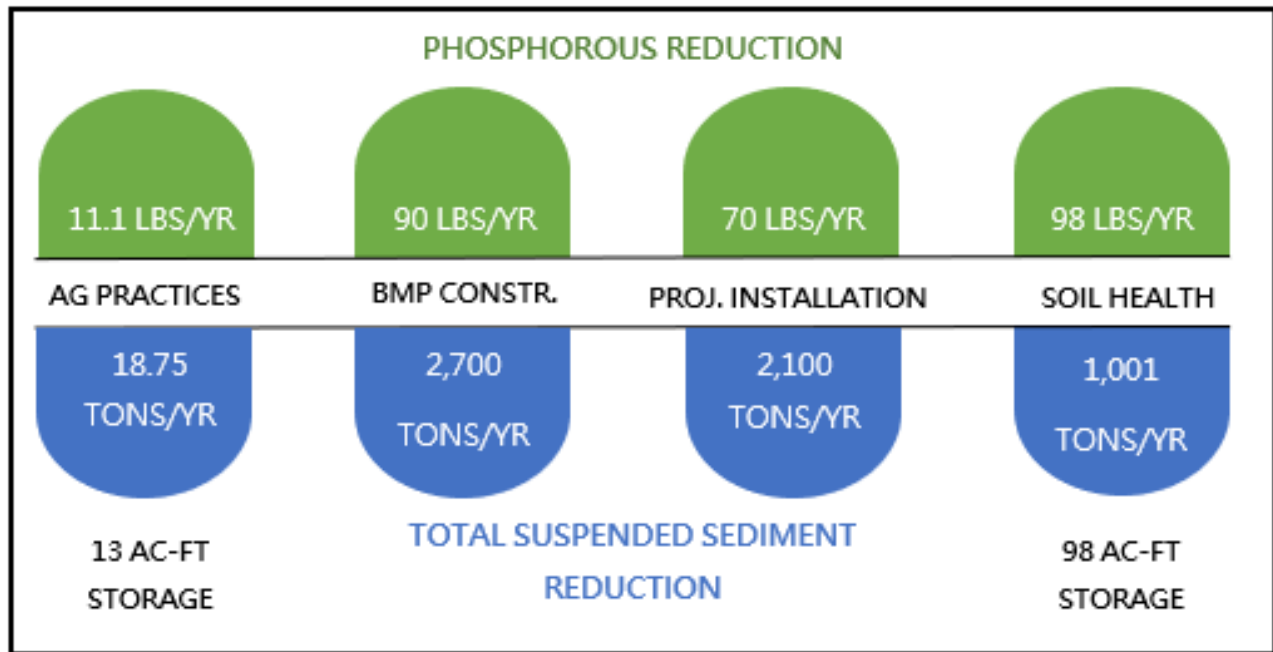
BWSR GRANT AGREEMENT: 2022 – 2025 (IN PROGRESS)

The second watershed based implementation funds grant agreement was signed by the Board of Water and Soils Resources on September 28, 2022. Anticipated measureable outcomes for this grant include:

PRIMARY GRANT SPONSORED ACTIVITIES

AGRICULTURAL FILTRATION, STORAGE AND PROTECTION PRACTICES	Fund approximately 8 filtration practice and 1 storage or protection practice. TARGET: Upper Mustinka & Fivemile Creek
CHANNEL STABILIZATION PROJECT CONSTRUCTION	Funds used to pursue activities leading to the construction of channel stabilization CIP projects. TARGET: Lake Traverse Water Quality Improvement Project No. 1 Phase 3
DITCH RETROFIT BMP CONSTRUCTION	Complete 103E drainage system repairs to address erosion and sedimentation issues (funding used for construction of eligible water quality practices). TARGET: WCD #Sub-1
FIVEMILE CREEK FEASIBILITY STUDY	Conduct a feasibility study in order to pursue a stream rehabilitation project. TARGET: Fivemile Creek Rehabilitation Project
SOIL HEALTH	Implementation of non-structural practices meeting 3-year contracting requirement to include, but not limited to: tillage reduction, cover crop utilization, nutrient management, MAWQCP. TARGET: Mustinka River contributing catchments

Anticipated Measureable Outcomes for this Grant



WATERSHED BASED IMPLEMENTATION FUNDS #2

C23-5729

Budget & Expense Report

9/28/22 - 12/31/25

WBIF GRANT ACTIVITY	SOURCE	GRANT BUDGET	SUM OF ACTUAL EXPENDITURES PAID TO DATE	BUDGET REMAINING
Ag Filtration, Storage, and Protection	WBIF State Grant	\$111,000.00	\$0.00	\$111,000.00
Project Construction (LTWQIP #3)	WBIF State Grant	\$100,000.00	\$0.00	\$100,000.00
Channel Stabilization Match (LTWQIP #3)	Match	\$106,000.00		\$106,000.00
Ditch Retrofit BMP Construction	WBIF State Grant	\$370,000.00	\$0.00	\$370,000.00
Fivemile Creek Feasibility Study	WBIF State Grant	\$100,000.00	\$170.00	\$99,830.00
Grant Admin and Plan Coordination	WBIF State Grant	\$24,722.00	\$184.07	\$24,537.93
Project Development	WBIF State Grant	\$120,000.00	\$0.00	\$120,000.00
Soil Health Management Practices	WBIF State Grant	\$121,800.00	\$0.00	\$121,800.00
Technical Assistance & Engineering	WBIF State Grant	\$117,000.00	\$0.00	\$117,000.00
TOTAL WITHOUT MATCH		\$ 1,064,522.00	\$ -	\$ 1,064,167.93

