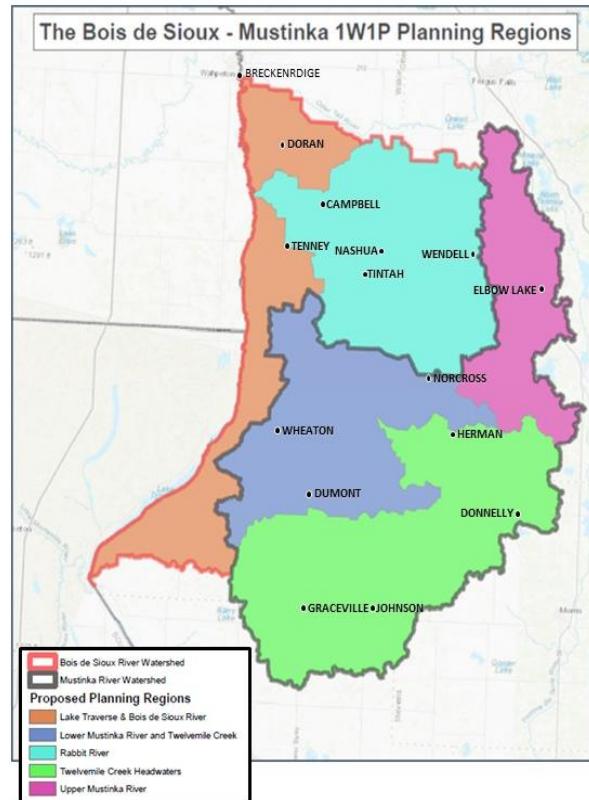


Plan Annual Update

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 three Legacy Amendment BWSR Clean Water Fund Watershed Based Implementation Fund Grants (WBIF #1 2020 – 2023, WBIF #2 2022 – 2026, WBIF #3 2024 - 2027).

OTHER ADMINISTRATIVE TASKS: The Steering Committee continued to meet monthly, and the Policy Committee met twice. Documents and records continue to be shared on a Sharepoint website.



BWSR CLEAN WATER WATERSHED BASED IMPLEMENTATION FUND GRANTS:



TERM	TOTAL
3/2021 – 12/2023	\$1,064,522.00
9/2022 – 12/2026*	\$1,488,685.00
9/2024 – 12/2027	\$1,594,226.00
9/2026 – 12/2029	TBD
9/2028 – 12/2031	TBD

* This date includes an approved one-year extension

The Board of Water and Soil Resource is a sponsoring agency.



Plan Measurable Goals (Projects & Practices)

10-YEAR SHORT-TERM GOALS

These short-term measurable 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	DONE	DONE	
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
DONE				
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	Seal 240 Wells		Identify and Prioritize Most At-Risk Farmsteads	
			Private Infrastructure and 50% are Protected with Ring Dikes	
3 Priority Municipalities have a Stormwater Management Plan				



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

BWSR AGREEMENT: 2021 – 2023 (EXPIRED 12/31/2022, CLOSED)

GRANT IS CLOSED

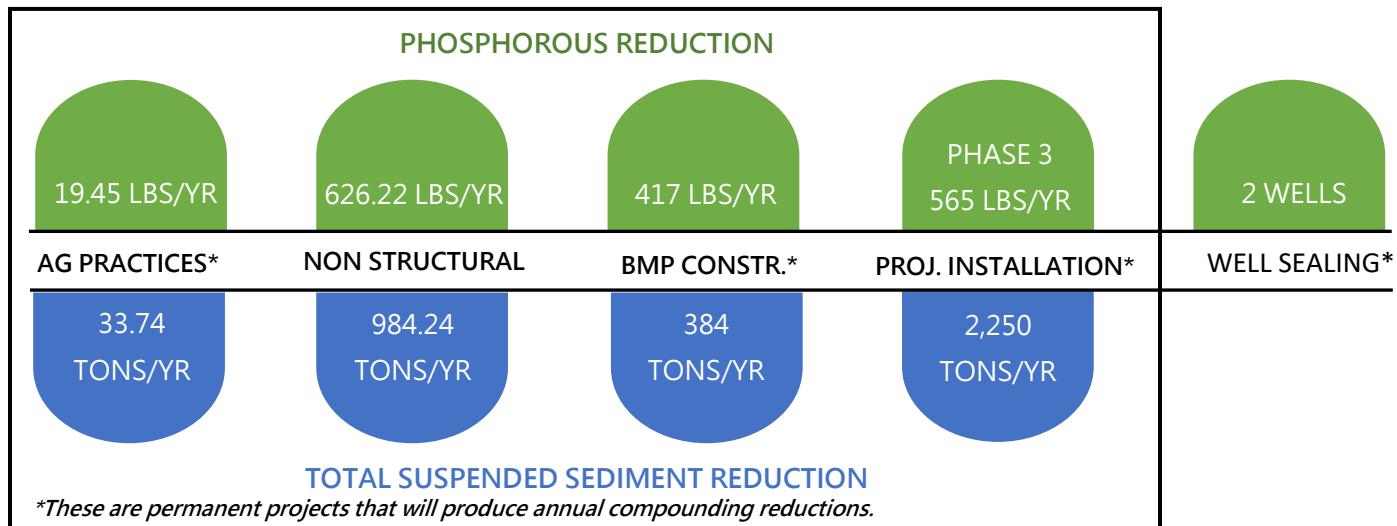
The first watershed based implementation funds grant agreement was signed by the Board of Water and Soils Resources on March 18, 2021.

PRIMARY GRANT SPONSORED ACTIVITIES

AGRICULTURAL PRACTICES	DONE. Funded 2 WASCOB Storage Practices; 7 Grade Stabilization Protect Practices; 28 Lined Waterway Outlet Protection Practices (original plan was to install 19 filtration practice and 1 storage or protection practice).
BMP CONSTN (JD #6)	DONE. Funds used to construct grade stabilization structures (side inlets) and continuous berms. TARGET: JD #6
PROJECT DEVELOPMENT (DORAN CREEK)	DONE. 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	DONE. Funds used to install cover crops: 469 acres Rabbit River; 1182 acres Lake Traverse & Bois de Sioux. All other planning regions: 846 acres; Total acres: 2497. Original plan was to install 335 acres Rabbit River; 165 acres Lake Traverse & Bois de Sioux.
PROJECT INSTALLATION (LTWQIP)	DONE. Funds used for phase 2 of 3 of the Lake Traverse Water Quality Improvement Project No. 1, stabilizing 1600' of a manmade channel (6400') adjacent to MN Highway 27. Phase 3 was completed without contributing funds. TARGET: Lake Traverse Planning Region
WELL SEALING	DONE. Funds used to provide 2 well sealings according to locally adopted cost share policies.
OTHER CATEGORIES	DONE. Administration/Coordination, Progress Tracking and Evaluation, Project Development, Technical/Engineering, Project Installation/Cons (Match)



Measurable Outcomes for this Grant



WBIF #1 C21-9685 ACTIVITY

GRANT CLOSED

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

WBIF GRANT ACTIVITY	SOURCE	ACTUAL		REQUIRED MATCH
		4/20 & 5/23 AMENDME	EXPENDITURES	
Agricultural Practices	WBIF State Grant	\$118,722.00	\$ 118,722.00	\$ -
BMP Construction (JD #6)	WBIF State Grant	\$148,000.00	\$ 148,000.00	\$ -
Project Development (Doran Creek)	WBIF State Grant	\$126,000.00	\$ 126,000.00	\$ -
Administration/Coordination*	WBIF State Grant	\$14,000.00	\$ 14,000.00	\$ -
Non-Structural Management Practices	WBIF State Grant	\$87,000.00	\$ 86,999.97	\$ -
Progress Tracking and Evaluation	WBIF State Grant	\$10,000.00	\$ 10,000.00	\$ -
Project Development	WBIF State Grant	\$194,000.00	\$ 194,000.00	\$ -
Project Installation/Const. (LTWQIP)	WBIF State Grant	\$325,000.00	\$ 325,000.00	\$ -
Project Installation/Const. (LTWQIP Cost Share)	Local Fund Match	\$106,452.00	\$ -	\$106,452.00
Technical/Engineering	WBIF State Grant	\$41,000.00	\$ 41,000.00	\$ -
Well Sealing	WBIF State Grant	\$800.00	\$ 800.00	\$ -
TOTAL		\$ 1,064,522.00	\$ 1,064,521.97	\$106,452.00



WATERSHED BASED IMPLEMENTATION FUNDS #1
C21-9685
3/19/21 - 12/31/23

LAKE TRAVERSE & BOIS DE SIOUX REDUCTIONS	
Sediment	2795.72 tons/yr
Phosph Loading	858.18 lbs/yr
Permanent Easement	35.37 acres
Ditch Stabilized	1.2 miles
Ditch Adequacy	0 miles
Wells Sealed	2 wells
Soil Health	1181.92 acres
Alt. Hydrology	41.15 acre-ft
Proj & Practices	\$ 532,241.59
Stream Restoration	\$ 126,000.00

Wells Sealed, Cover Crops, Grade Stabilization
CIP LTWQIP No. 1 Phase 3 and Doran Creek Development

LOWER MUSTINKA & TWELVEMILE CREEK	
Sediment	231.37 tons/yr
Phosph Loading	197.96 lbs/yr
Permanent Easement	0 acres
Ditch Stabilized	0 miles
Ditch Adequacy	0 miles
Wells Sealed	0 wells
Soil Health	846 acres
Alt. Hydrology	118.44 acre-ft
Proj & Practices	\$ 64,341.37
Stream Restoration	\$ -

Cover Crops, 2 WASCOBs, 12 Lined Waterways

RABBIT RIVER REDUCTIONS	
Sediment	616.18 tons/yr
Phosph Loading	565.34 lbs/yr
Permanent Easement	44.96 acres
Ditch Stabilized	9 miles
Ditch Adequacy	9 miles
Wells Sealed	0 wells
Soil Health	468.96 acres
Alt. Hydrology	34.35 acre-ft
Proj & Practices	\$ 303,797.86
Stream Restoration	

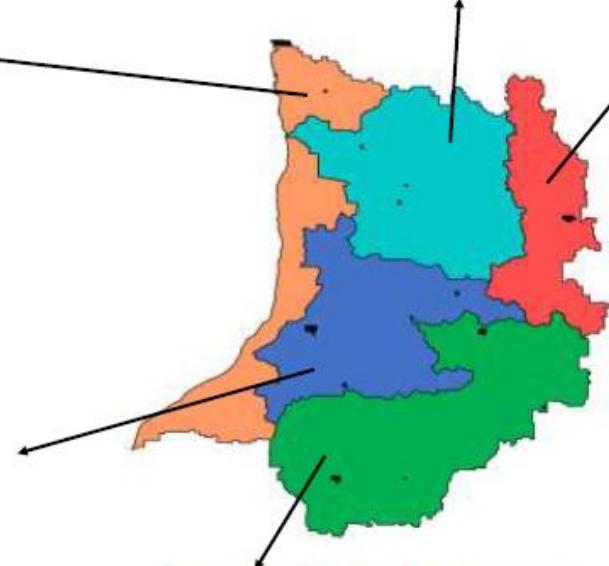
Retrofit, Cover Crops, 3 Grade Stabilizations, CIP JD #6 Retrofit

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
Proj & Practices	\$ 75,283.66
Stream Restoration	\$ -

WASCOB

TOTAL REDUCTIONS	
Sediment	4651.98 tons/yr
Phosph Loading	1627.67 lbs/yr
Permanent Easement	80.33 acres
Ditch Stabilized	10.2 miles
Ditch Adequacy	9 miles
Wells Sealed	2 wells
Soil Health	2496.88 acres
Alt. Hydrology	193.94 acre-ft
Proj & Practices	\$ 1,044,973.97
Stream Restoration	\$ 126,000.00
Total	\$ 1,170,973.97

*SWCD Project Dev & Tech/Eng



FIVEMILE & 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
Proj & Practices	\$ 69,309.50
Stream Restoration	\$ -

WASCOB

IMPLEMENTATION PROGRAMS



TARGETED IMPLEMENTATION



MEASURABLE GOALS



ISSUE PRIORITIZATION



INTRO



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

GRANT IS OPEN

BWSR GRANT AGREEMENT: 2022 – 2025 (IN PROGRESS)

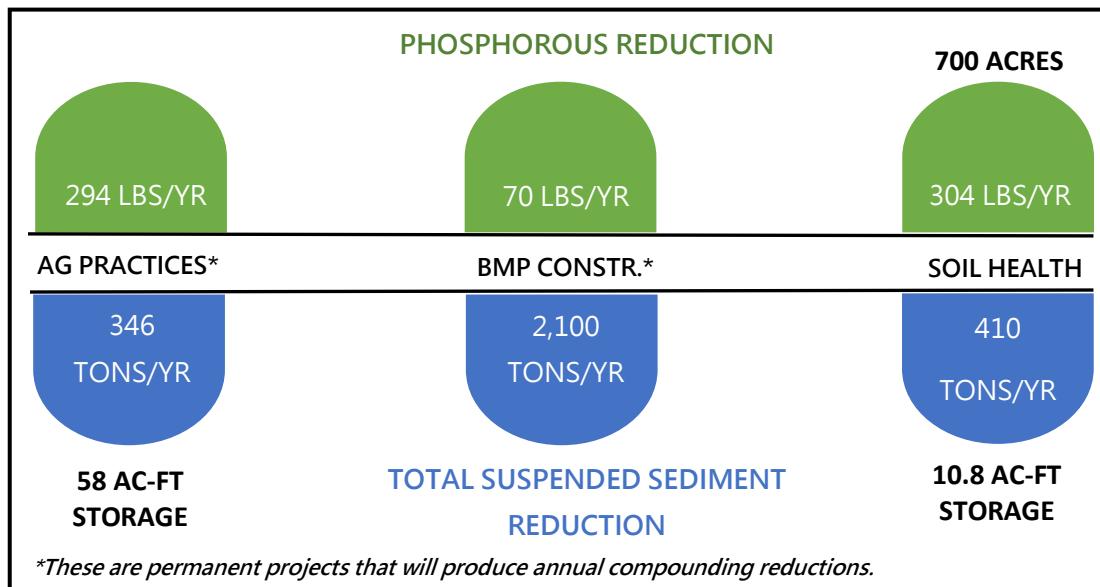
The second watershed based implementation funds grant agreement was signed by the Board of Water and Soils Resources on September 28, 2022. Anticipated measurable outcomes for this grant include:

PRIMARY GRANT SPONSORED ACTIVITIES

AGRICULTURAL FILTRATION, STORAGE AND PROTECTION PRACTICES	Fund approximately 8 filtration practices and 1 storage or protection practice. TARGET: Upper Mustinka & Fivemile and Twelvemile Creek
PROJECT CONSTRUCTION	DONE. Funds used to pursue activities leading to the construction of channel stabilization CIP projects. TARGET: Doran Creek & Twelvemile Creek.
DITCH RETROFIT BMP CONSTRUCTION	DONE. 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	DONE. 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
OTHER CATEGORIES	Grant Admin and Plan Coord, Technical Assistance & Engineering, Project Development, Channel Stabilization Match



Measurable Outcomes for this Grant, to Date



WBIF #2 C23-5729 ACTIVITY

September 28, 2022 - December 31, 2025

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

WBIF GRANT ACTIVITY	SOURCE	SUM OF ACTUAL		BUDGET REMAINING
		SUPPLEMENTAL & GRANT BUDGET	EXPENDITURES PAID TO DATE	
Ag Filtration, Storage, and Protection	WBIF State Grant	\$439,695.00	\$196,738.20	\$242,956.80
Project Construction (Twelvemile)	WBIF State Grant	\$100,000.00	\$15,217.68	\$84,782.32
Project Construction (Doran Creek)	WBIF State Grant	\$95,468.00	\$95,468.00	\$0.00
Ditch Retrofit BMP Construction	WBIF State Grant	\$370,000.00	\$370,000.00	\$0.00
Fivemile Creek Feasibility Study	WBIF State Grant	\$100,000.00	\$100,000.00	\$0.00
Grant Admin and Plan Coordination	WBIF State Grant	\$24,722.00	\$11,189.65	\$13,532.35
Project Development	WBIF State Grant	\$120,000.00	\$90,356.88	\$29,643.12
Soil Health Management Practices	WBIF State Grant	\$121,800.00	\$64,737.28	\$57,062.72
Technical Assistance & Engineering	WBIF State Grant	\$117,000.00	\$94,100.13	\$22,899.87
Ditch Retrofit BMP Construction (Match)	Match	\$148,416.00	\$148,416.00	\$0.00
TOTAL WITHOUT MATCH		\$ 1,488,685.00	\$1,037,807.82	\$ 450,877.18



WATERSHED BASED IMPLEMENTATION FUNDS #2

C23-5729

Budget & Expense Report

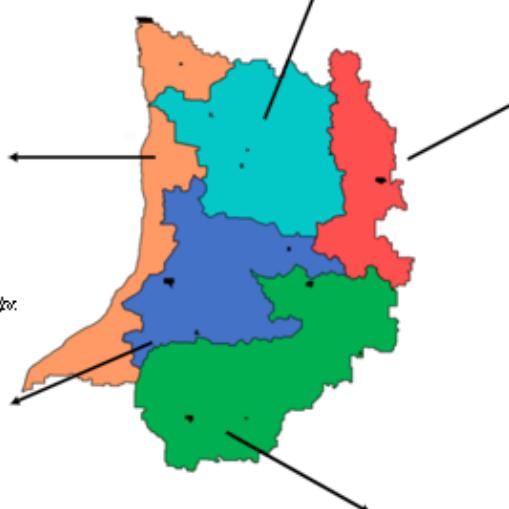
9/28/22 - 12/31/26

LAKE TRAVERSE & BDS RED.	
Sediment	807 tons/yr
Phosph Loading	424 lbs/yr
Permanent Easement	46.15 acres
Ditch Stabilized	8 miles
Ditch Adequacy	8 miles
Wells Sealed	wells
Soil Health	253 acres
Alt. Hydrology	62.8 acre-ft
Grant & Match Proj & Practices	\$ 557,418.00
Grant & Match Stream Restoration	\$ 95,468.00

Grade Stabilization; Ditch Retrofit; Stream Restoration Develop.

LOWER MUST & TWOMILE CREEK RED	
Sediment	10 tons/yr
Phosph Loading	14 lbs/yr
Permanent Easement	acres
Ditch Stabilized	miles
Ditch Adequacy	miles
Wells Sealed	wells
Soil Health	76 acres
Alt. Hydrology	2.1 acre-ft
Grant & Match Proj & Practices	\$ 3,648.00
Grant & Match Stream Restoration	\$ 15,217.68

Cover Crop; Stream Restoration Development



RABBIT RIVER REDUCTIONS

Sediment	311 tons/yr
Phosph Loading	193.33 lbs/yr
Permanent Easement	acres
Ditch Stabilized	miles
Ditch Adequacy	miles
Wells Sealed	wells
Soil Health	823.58 acres
Alt. Hydrology	acre-ft
Grant & Match Proj & Practices	\$ 27,157.28
Grant & Match Stream Restorati	\$ -

Cover Crops

UPPER MUSTINKA REDUCTIONS

Sediment	72.15 tons/yr
Phosph Loading	56.57 lbs/yr
Permanent Easement	acres
Ditch Stabilized	miles
Ditch Adequacy	miles
Wells Sealed	wells
Soil Health	495 acres
Alt. Hydrology	1 acre-ft
Grant & Match Proj & Practice	\$ 166,755.45
Grant & Match Stream Restor	\$ -

Cover Crops, WASCORE

TOTAL REDUCTIONS

Sediment	1207.24 tons/yr
Phosph Loading	692.01 lbs/yr
Permanent Easement	46.15 acres
Ditch Stabilized	8 miles
Ditch Adequacy	8 miles
Wells Sealed	wells
Soil Health	1647.58 acres
Alt. Hydrology	65.9 acre-ft
Grant & Match Proj & Practice	\$ 779,891.48
Grant & Match Stream Restor	\$ 210,685.68
Need to Divide by 5 End of Gra	\$ 195,646.66
Total	\$ 1,186,223.82

FIVEMILE & TWELVEMILE CREEK REDUCTIONS

Sediment	7.09 tons/yr
Phosph Loading	4.11 lbs/yr
Permanent Easement	acres
Ditch Stabilized	miles
Ditch Adequacy	miles
Wells Sealed	wells
Soil Health	acres
Alt. Hydrology	acre-ft
Grant & Match Proj & Practices	\$ 24,912.75
Grant & Match Stream Restorati	\$ 100,000.00

Grade Stabilization; Feasibility & Hydraulic Study

IMPLEMENTATION PROGRAMS



TARGETED IMPLEMENTATION



MEASURABLE GOALS



ISSUE PRIORITIZATION



INTRO



WBIF Grant #3: C25-0156 - \$1,594,226

GRANT IS OPEN

BWSR GRANT AGREEMENT: 2024 – 2027 (IN PROGRESS)

The second watershed based implementation funds grant agreement was signed by the Board of Water and Soils Resources on August 27, 2024. Anticipated measurable outcomes for this grant include:

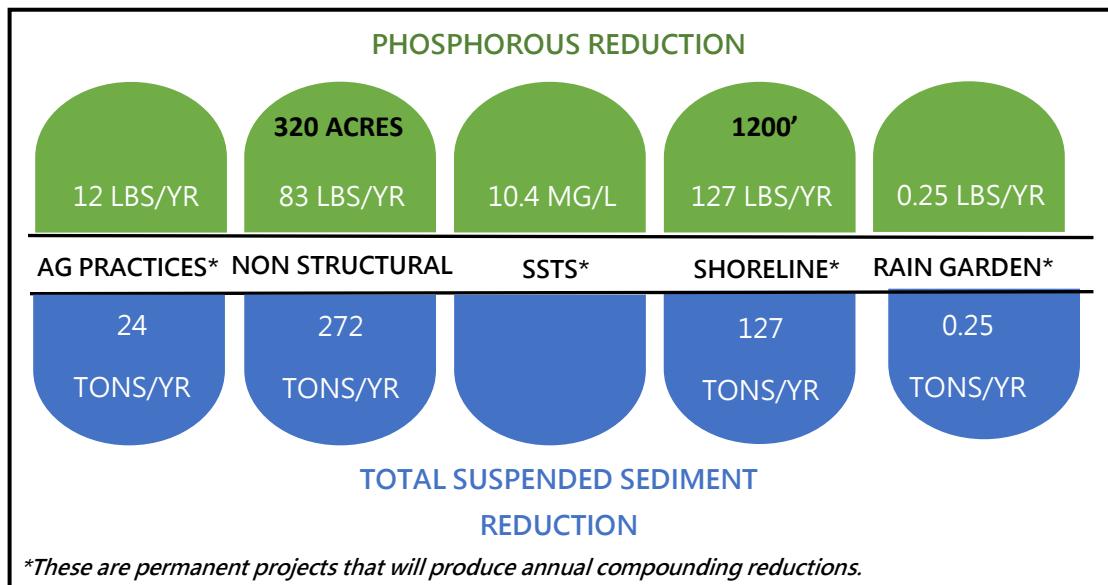
PRIMARY GRANT SPONSORED ACTIVITIES

NON-STRUCTURAL & SOIL HEALTH	Fund 320 acres of cover crops. TARGET: Lake Traverse & Bois de Sioux Planning Region
AGRICULTURAL FILTRATION, STORAGE AND PROTECTION PRACTICES	Fund approximately 3 storage practices (WASCOBS and/or drainage water management) and 3 protection practices (grade stabilization, streambank protection and/or side water inlets). TARGET: Planning Regions where projects are rated as "High" or "Medium"
SHORELINE STABILIZATION	Stabilization of 1,200' of shoreline to reduce erosion, sedimentation, and nutrient loading. TARGET: Fivemile and Twelvemile Creek Headwaters Planning Region
RAIN GARDEN/URBAN STORMWATER	Fund 1 rain garden installation; TARGET: Fivemile and Twelvemile Creek Headwaters Planning Region
SUBSURFACE SEWAGE TREATMENT SYSTEM	For 4 subsurface sewage treatment systems, fund: repair, replacement, address inadequacy, and/or address non-compliance. TARGET: Upper Mustinka River or Rabbit River Planning Regions
WELL SEALING	Budget placeholder (\$0 allocation at onset). Seal abandoned wells, if opportunities arise. TARGET: "Medium" or "High" priority projects.
MDM STABILIZATION & PROTECTION	Complete 103E drainage system repairs to address erosion and sedimentation issues (funding used for construction of eligible water quality practices). TARGET: 103E Drainage Systems.
STREAM RESTORATION	Support project development and engineering support; BMP identification; easement facilitation, permitting hydraulic studies, modeling, surveys, preliminary and final designs. TARGET: Planning Regions w/Channel Stabilization Capital Improvement Project's



OTHER CATEGORIES	Grant Admin and Plan Coord (BdSWD), Technical Assistance & Engineering (SWCD'S), Project Development (SWCD'S), Channel Stabilization Match (BdSWD)
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Anticipated Measurable Outcomes for this Grant



WBIF #3 C25-0156 ACTIVITY

August 27, 2024 - December 31, 2027

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

WBIF GRANT ACTIVITY	SOURCE	GRANT BUDGET	EXPENSES	BUDGET REMAINING
Non-Struct. & Soil Health (Traverse SWCD Cover Crops)	WBIF State Grant	\$15,000.00	\$0.00	\$15,000.00
Ag Filtration, Storage, and Protection (Grant, Trav, Wilkin SWCDs)	WBIF State Grant	\$367,300.00	\$0.00	\$367,300.00
Shoreline Stabilization (Grant SWCD)	WBIF State Grant	\$112,500.00	\$0.00	\$112,500.00
Rain Garden/Urban Stormwater (Grant SWCD)	WBIF State Grant	\$7,500.00	\$0.00	\$7,500.00
Subsurface Sewage Treatment Sys (OTC)	WBIF State Grant	\$10,000.00	\$0.00	\$10,000.00
Well Sealing	WBIF State Grant	\$1.00	\$0.00	\$1.00
Project Development (SWCDs)	WBIF State Grant	\$135,000.00	\$9,227.58	\$125,772.42
Technical Assistance & Engineering (SWCDs)	WBIF State Grant	\$125,000.00	\$3,105.75	\$121,894.25
Grant Admin and Plan Coordination (BdSWD)	WBIF State Grant	\$20,000.00	\$1,425.63	\$18,574.37
Ditch Retrofit BMP Construction (BdSWD)	WBIF State Grant	\$245,001.00	\$0.00	\$245,001.00
Stream Restoration (BdSWD Doran, Twelvemile, Fivemile)	WBIF State Grant	\$556,924.00	\$24,402.50	\$532,521.50
TOTAL WITHOUT MATCH		\$ 1,594,226.00	\$ 38,161.46	\$ 1,556,064.54



WBIF #1, WBIF #2, & WBIF #3 REDUCTIONS BY PLANNING REGION THRU 12/31/2025

RABBIT RIVER REDUCTIONS			Short Term	Long Term
			Goal	Goal
Sediment	927.18 tons	412%	15%	
Phosph Loading	759.67 lbs	400%	4%	
Permanent Easement	44.96 acres	No Goal		
Ditch Stabilized	9 miles	Watershed Wide Goal		
Ditch Adequacy	9 miles	Watershed Wide Goal		
Wells Sealed	0 wells	Watershed Wide Goal		
Soil Health	1292.54 acres	185%	3%	
Alt. Hydrology	37.75 acre-ft	1%	0%	
Grant & Match Proj & Practices	\$ 330,955.14	33%		
Grant & Match Stream Restoration	\$ -			

LAKE TRAVERSE & BOIS DE SIOUX REDUCTIONS			Short Term	Long Term
			Goal	Goal
Sediment	3602.72 tons	320%	13%	
Phosph Loading	1282.18 lbs	401%	1%	
Permanent Easement	81.52 acres	No Goal		
Ditch Stabilized	9.2 miles	Watershed Wide Goal		
Ditch Adequacy	8 miles	Watershed Wide Goal		
Wells Sealed	4 wells	Watershed Wide Goal		
Soil Health	1434.92 acres	418%	5%	
Alt. Hydrology	103.95 acre-ft	8%	5%	
Grant & Match Proj & Practices	\$ 1,089,659.59	279%		
Grant & Match Stream Restoration	\$ 234,845.50	62%		



UPPER MUSTINKA REDUCTIONS		73.77 tons	Short Term	Long Term
			Goal	Goal
Sediment		73.77 tons	21%	2%
Phosph Loading		58.65 lbs	53%	16%
Permanent Easement		0 acres	No Goal	
Ditch Stabilized		0 miles	Watershed Wide Goal	
Ditch Adequacy		0 miles	Watershed Wide Goal	
Wells Sealed		0 wells	Watershed Wide Goal	
Soil Health		495 acres	0%	0%
Alt. Hydrology		0 acre-ft	0%	0%
Grant & Match Proj & Practices	\$ 242,039.11		26%	
Grant & Match Stream Restoration	\$ -			

FIVEMILE & TWELVEMILE CREEK REDUCTIONS		14.18 tons	Short Term	Long Term
			Goal	Goal
Sediment		14.18 tons	2%	0%
Phosph Loading		8.22 lbs	3%	0%
Permanent Easement		0 acres	No Goal	
Ditch Stabilized		0 miles	Watershed Wide Goal	
Ditch Adequacy		0 miles	Watershed Wide Goal	
Wells Sealed		0 wells	Watershed Wide Goal	
Soil Health		0 acres	0%	0%
Alt. Hydrology		0 acre-ft	0%	0%
Grant & Match Proj & Practices	\$ 94,222.25		7%	
Grant & Match Stream Restoration	\$ 111,025.00		0%	

LOWER MUSTINKA & TWELVEMILE CREEK		Short Term	Long Term
		Goal	Goal
Sediment	241.37 tons	21%	1%
Phosph Loading	211.96 lbs	57%	1%
Permanent Easement	0 acres	No Goal	
Ditch Stabilized	0 miles	Watershed Wide Goal	
Ditch Adequacy	0 miles	Watershed Wide Goal	
Wells Sealed	0 wells	Watershed Wide Goal	
Soil Health	922 acres	387%	2%
Alt. Hydrology	120.54 acre-ft	0%	0%
Grant & Match Proj & Practices	\$ 67,989.37		8%
Grant & Match Stream Restoration	\$ 30,435.36		

TOTAL REDUCTIONS FROM WBIF #1, #2 & #3 AS OF 12/31/25		Short Term	Long Term	PERMANENT (ANNUAL)
		Goal	Goal	
Sediment	4859.22 tons	129%	7%	2863.74 tons
Phosph Loading	2320.68 lbs	185%	1%	1365.45 lbs
Permanent Easement	126.48 acres	No Goal		126.48 acres
Ditch Stabilized	18.2 miles	24%	3%	18.2 miles
Ditch Adequacy	17 miles	23%	3%	17 miles
Wells Sealed	4 wells	200%	17%	4 wells
Soil Health	4144.46 acres	179%	2%	0 acres
Alt. Hydrology	262.24 acre-ft	1%	0%	58.85 acre-ft
Grant & Match Proj & Practices	\$1,824,865.46		51%	
Grant & Match Stream Restoration	\$376,305.86		28%	
Total	\$2,201,171.32			