



Grant Progress Report

Projects and Practices 2020

Grant Title: Phase 1 of Five Mile Creek and Marsh Lake Improvement Strategy **Grant Award (\$):** \$274,000.00

Grant Execution Date: 02/28/2020

Grant ID: C20-7122

Required Match (%): 25

Grant End Date: 12/31/2022

Grantee: Big Stone SWCD

Required Match (\$): \$68,500.00

Fiscal Agent: Big Stone SWCD

Grant Day-to-Day Contact: Tammy Neubauer

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$274,000.00	\$235,828.47	\$38,171.53
Match Funds	\$68,500.00	\$63,573.57	\$4,926.43
Other Funds	\$0.00	\$0.00	\$0.00
Total	\$342,500.00	\$299,402.04	\$43,097.96

*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	Category	Source Type	Source Description	Budgeted	Spent	Balance Remaining	Match Fund?
Grant Management and Reporting	Administration/Coordination	Local Fund	local match	\$1,000.00	\$460.21	\$539.79	Y
Grant Management and Reporting	Administration/Coordination	Current State Grant	Phase 1 of Five Mile Creek and Marsh Lake Improvement Strate..	\$4,000.00	\$7,818.05	(\$3,818.05)	N
Cost Share for Ag	Agricultural Practices	Current State Grant	Phase 1 of Five Mile Creek and Marsh	\$240,000.00	\$216,110.04	\$23,889.96	N

<i>Activity Name</i>	<i>Category</i>	<i>Source Type</i>	<i>Source Description</i>	<i>Budgeted</i>	<i>Spent</i>	<i>Balance Remaining</i>	<i>Match Fund?</i>
Practices			Lake Improvement Strate..				
Cost Share for Ag Practices	Agricultural Practices	Landowner Fund	landowner match funds	\$60,000.00	\$54,027.50	\$5,972.50	Y
Engineering Services and Technical Assistance	Technical/Engineering Assistance	Local Fund	local match	\$7,500.00	\$9,085.86	(\$1,585.86)	Y
Engineering Services and Technical Assistance	Technical/Engineering Assistance	Current State Grant	Phase 1 of Five Mile Creek and Marsh Lake Improvement Strate..	\$30,000.00	\$11,900.38	\$18,099.62	N

Indicator Summary

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	89.1	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	532.6	Tons/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	352.08	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	352.08	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	1776.93	Tons/Yr

Grant Activities

Activity Name: Cost Share for Ag Practices

Activity Category: Agricultural Practices **Staff time?:** No

Description: Ref: Big Stone County Local Water Management Plan: Chapter One, sec 3, pages 1-10; sec 4, 2.F.5; 3.G.4; SWCD Clean Water Funding Projects - This activity will be used to provide cost share assistance to landowners who participate in highly valued & targeted (PTMapp) BMPs in the project areas, as installing WASCoBs (NRCS techn std 638). Non-structural practices such as cover crops (std 340) & conservation tillage (stds 329, 345) (in complement to the WASCoB structures) that will reduce soil erosion & protect surface water quality. These projects will be designed by qualified engineers through the WCTSA (credentials listed in Engineering Activity) & will ensure the use of appropriate practice standards for design, construction, operation, & maintenance of the work plan projects by following the FOTG standards. As identified in the Targeted Implementation Plan & calculated using PTMapp, the proposed actions of this activity, including the 19 pre-designed WASCoBs, will reduce 532.6 tons of sediment (15% & 3% of the overall goal in Cty Ditch 2 and Marsh Lake, respectively) 89.1 lbs of phosphorus (9% & 1% of the overall goal in Cty Ditch 2 and Marsh Lake, respectively).

Landowners that install WASCoBs will be offered maximum cost share assistance at 75%. The remaining 25% of total project costs will be landowners' match funds, or other non-state funding match. The non-structural practices (cover crops, conservation tillage) will use the BS SWCD 2020 ECWMP Policy, that will apply the payment rate of \$10/ ac/yr, max 160 acres, for a 3-year contract life for practice Std 329 conservation tillage; and \$35/ac/yr (single spp) and \$40/ac/yr (multiple spp) Std 340 cover crops for 3 years, max payment of \$4800. Project assurances will include using the State Cost Share contract & following procedures as required in the BWSR Grants Administration Manual. With guidance from BWSR, the BS SWCD Board of Supervisors has approved the 2020 ECWMP Policy as the policy authority.

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Landowner Fund	landowner match funds	\$60,000.00	\$54,027.50	\$5,972.50	12/06/2022	Y
Current State Grant	Phase 1 of Five Mile Creek and Marsh Lake Improvement Strate..	\$240,000.00	\$216,110.04	\$23,889.96	12/06/2022	N

Actual Results

The project area was redesigned by the Engineers, West Central Technical Service Area, according to additional surveying, involving 4 landowners. The new design for the project area incorporates 12 water and sediment basin structures, in place of the 19 structures in the original design that will no longer be needed to accomplish the reduction goals. The new Targeted Implementation Plan that is calculated reduces sediment and phosphorous by 352.8 lb/yr and soil savings of 1776.93 T/yr, through County Ditch 2 (5 Mile Creek) and ultimately, into Marsh Lake.

Payments were made to 4 landowners in two phases - tiling and water and sediment basins.

The Big Stone SWCD Board of Supervisors approved to cost share each landowner contract at 80%, with the District matching additional funds to cover the minimum requirement of 25% match funds.

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Soil (Est. Savings)	1776.93	Tons/Yr
Phosphorus (Est. Reduction)	352.08	Lbs/Yr
Sediment (Tss)	352.08	Tons/Yr

Activity Action Name: Cost Share for Ag Practices				Activity Count: 12
Practice Type: 638 - Water and Sediment Control Basin				Size/Units: 12 - Acre-Feet/Yr
TA Provider/JAA: TSA				Lifespan: 10 Years
Practice Description: water and sediment control basins				Install Date: 12/06/2022
				Mapped: Yes
Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	1776.93	Bwsr Calc (Gully Stabilization)	County Ditch 2 (5 Mile Creek)
Sediment (Tss)	Tons/Yr	352.08	Bwsr Calc (Gully Stabilization)	County Ditch 2 (5 Mile Creek)
Phosphorus (Est. Reduction)	Lbs/Yr	352.08	Bwsr Calc (Gully Stabilization)	County Ditch 2 (5 Mile Creek)

Activity Name: Engineering Services and Technical Assistance

Activity Category: Technical/Engineering Assistance

Staff time?: Yes

Description: This fund will be used toward the time of installation and oversight of the projects being installed, as well as technical staff time for final engineering of the project and technical assistance.

Ref: Big Stone County Local Water Management Plan - to provide for technical time of District staff with JAA, and the engineering services of the West Central Technical Service Area staff, who will assist in designing structural engineered practices and will ensure appropriate operation and maintenance plans of approved conservation practices and their approved specifications as listed in the FOTG. Ross Reiffenberger, WCTSA Engineer, and Steve Linow, Civil Engineering Technician, have appropriate design, construction, operation, maintenance and sign off credentials for these 19 shovel ready projects. Their JAA authority Skills Matrix and credentials are on file at the Big Stone SWCD office. In the event that JAA from the WCTSA cannot be met for design and/or sign off on these projects, the Board of Supervisors will approve engineering services that can ensure their qualifications and credentials to meet the FOTG specifications.

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Current State Grant	Phase 1 of Five Mile Creek and Marsh Lake Improvement Strate..	\$30,000.00	\$11,900.38	\$18,099.62	12/31/2022	N
Local Fund	local match	\$7,500.00	\$9,085.86	(\$1,585.86)	12/31/2022	Y

Actual Results

1/3/2021-12/31/2021:

Engineering Services with WCTSA - \$2950.38 (75% applied to grant; 25% will be applied to match funds - \$983.46)

1/1/2022-12/31/2022:

WCTSA Engineering - total CY2022 for engineering services \$8950.00.

WCTSA Engineering paid by NRCS Conservation Collaboration grant - \$8102.40, to be applied as match funds. Match funds applied exceed budget match requirement.

Activity Name: Grant Management and Reporting

Activity Category: Administration/Coordination

Staff time?: Yes

Description: This fund will go toward the tracking and reporting of this grant for its duration and provide for informational outreach to landowners.

Ref: Big Stone County Local Water Management Plan.

This activity will provide for the administrative time with regard to record keeping and reporting of this grant. The District Manager will be responsible for administering, guiding and coordinating staff and partners, while balancing the financial affairs of the grant.

This activity will also provide outreach for the organization of informational meetings/workshops for landowners, and field days to educate and showcase the efficiency of WASCoBs and other practices that are repairing gully erosion, as provided in the Grant Improvement Strategy. These informational meetings, workshops and field days will be provided as match funds to this grant activity.

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Current State Grant	Phase 1 of Five Mile Creek and Marsh Lake Improvement Strate..	\$4,000.00	\$7,818.05	(\$3,818.05)	12/31/2022	N
Local Fund	local match	\$1,000.00	\$460.21	\$539.79	12/31/2021	Y

Actual Results

3/22/2021-12/31/2021:

District Manager - grant expenses tracking, arranging landowner meetings with engineers, phone calls on progress of planning, engineer information gathered to distribute to landowners involved - 25.5 hrs @ \$63.21/hr = \$1611.85; of which 75% is applied to the grant \$1208.89, and 25% applied to match funds \$402.96.

District Technician - assist with arranging landowner meetings, assist in distributing information to involved landowners - 5 hrs @ \$45.80/hr = \$229.00, of which 75% is applied to the grant \$171.75, and 25% applied to match funds \$57.25.

1/1/2022-12/31/2022:

District Manager

- 55.75 hrs @ \$65.42/hr = \$3647.16

- 5 hrs @ \$58.07/hr = \$290.35

- 39 hrs @ \$64.10/hr = \$2499.90

Total Administration CY2022 - \$6437.41.

Total Administration for CY2022 applied to grant funds - \$6437.41

Administration time applied exceeds the budgeted amount of \$4,000. The additional administration applied is within the allowable limits without a workplan budget adjustment, while still meeting the total match funds required by the grant.