



Grant Progress Report

Multipurpose Drainage Management 2019

Grant Title: 2019 - CWF MDM County Ditch 68

Grant ID: C19-1900

Grantee: Freeborn SWCD

Fiscal Agent: Freeborn SWCD

Grant Day-to-Day Contact: Lindsey Cornell

Grant Award (\$): \$370,312.00

Required Match (%): 25

Required Match (\$): \$92,578.00

Grant Execution Date: 04/01/2019

Grant End Date: 12/31/2022

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$370,312.00	\$26,250.00	\$344,062.00
Match Funds	\$99,141.00	\$6,563.00	\$92,578.00
Other Funds	\$0.00	\$0.00	\$0.00
Total	\$469,453.00	\$32,813.00	\$436,640.00

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

Project Abstract	<p>This project has the rare combination of a drainage authority willing to do a water storage project, willing landowners, and textbook geography for water storage. The identified site has over 40 acres of water storage pool available covering two landowners who are willing to sell easement rights for temporary and permanent water storage. Additional uplands and restorable wetlands bring the whole project up to 93 acres. This project will decrease peak flows and associated water quality issues such as sediment and phosphorus on County Ditch 68, Mud Lake, and Fountain Lake. It plans to decrease phosphorus and sediment delivery to those surface waters. Practices include a 40 acre storage and treatment wetland, two cropped and altered wetland restorations of an acre each, converting 32 acres of cropland to perennial cover, and two grade stabilization structures. Anticipated annual outcomes include approximately 160 acre feet of combined temporary and permanent water storage, 88 pounds reduction of P transport to surface waters, 60 Tons of reduction of soil loss, 45 Tons of reduction of sediment, and 2044 pounds of reduction of N. The proposed project is a partnership between the Freeborn County Drainage Authority and the</p>
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Proposed Measurable Outcomes	Freeborn County Soil and Water Conservation District.
	Annual reduction of the following; 88 pounds phosphorus, 60 tons soil loss, 45 tons sediment, 2440 pounds nitrogen. 160 ac. ft. of permanent & temporary storage. Additional accumulative reductions downstream are problematic to quantify.

Budget Details

<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>
Match	Administration/Coordination	Local Fund	Match	\$6,563.00	\$6,563.00	\$0.00	Y
Grant Administration	Administration/Coordination	Current State Grant	2019 - CWF MDM County Ditch 68	\$15,000.00	\$15,000.00	\$0.00	N
Side Inlet #1	Agricultural Practices	Current State Grant	2019 - CWF MDM County Ditch 68	\$7,500.00		\$7,500.00	N
Side Inlet #2	Agricultural Practices	Current State Grant	2019 - CWF MDM County Ditch 68	\$7,500.00		\$7,500.00	N
Technical Assistance	Technical/Engineering Assistance	Current State Grant	2019 - CWF MDM County Ditch 68	\$11,250.00	\$11,250.00	\$0.00	N
Storage and Treatment Wetland and Buffer Easement	Wetland Restoration/Creation	Current State Grant	2019 - CWF MDM County Ditch 68	\$329,062.00		\$329,062.00	N
Side Inlet #1	Agricultural Practices	Landowner Fund	Landowner Contribution at 75% C/S	\$2,500.00		\$2,500.00	Y
Side Inlet #2	Agricultural Practices	Landowner Fund	Landowner Contribution at 75% C/S	\$2,500.00		\$2,500.00	Y
Storage and Treatment Wetland and Buffer Easement	Wetland Restoration/Creation	Landowner Fund	Landowner Contribution for restoration and easement	\$87,578.00		\$87,578.00	Y

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction)	Sediment (Tss)	51.75	Tons/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
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<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Estimates)			
Water Pollution (Reduction Estimates)	Nutrients (Nitrate)	1380	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	5.94	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	5.05	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	87.7	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	0.84	Lbs/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	60	Tons/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.99	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	5.94	Tons/Yr

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	0.99	Tons/Yr
Water Pollution (Reduction Estimates)	Nutrients (Nitrate)	664	Lbs/Yr

Grant Activities

Activity Name: Easement

Activity Category: Wetland Restoration/Creation

Staff time?: No

Description: Easement

Actual Results

Results

Date Added

1/23/2019 10:14:57 AM

Activity Name: Grant Administration

Activity Category: Administration/Coordination

Staff time?: Yes

Description: CD 68 is a priority chapter 103E drainage system because of persistent issues with sediment and cleanout costs. Sedimentation rates are high enough that the Drainage Authority has installed a sediment trap in the ditch bottom. Also CD68 open ditch has sustained damage large enough to apply for and receive FEMA funds to repair damages twice in the last five years. This Activity is for reimbursement of eligible costs to the SWCD for the Manager administering the grant and completing required grant reports and financial reports.

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>
Current State Grant	2019 - CWF MDM County Ditch 68	\$15,000.00	\$15,000.00	\$0.00	12/31/2021	N

Actual Results

<u>Results</u>	<u>Date Added</u>
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As of 12/31/2019 Manager \$56.81 x 9 = \$511.29.	1/23/2019 10:14:34 AM
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As of 12/31/2020 Manager \$61.10 x 5 = \$305.5, Resource Con \$48076 x 1.5 = \$73.14, and Private Lands Biologist 70.5 x \$48.50 = 3419.25

As of 12/31/2021 Manager \$62.49 x 4 = \$249.96, PLB \$51.13 x 57 = \$2914.41, PLB \$51.85 x 31 = \$1607.35, \$51.42 x 115.5 = \$5939.01

- Coordinated and worked with BWSR, County Drainage Authority, and landowners to draft/edit several cost-share contracts and easement templates unique to MDM grant.

- Assisted/Worked with title company, landowners, County Drainage Authority, utility company, and BWSR to clear or confine encumbrances to proceed to a final title commitment/recorded easement. Encumbrances include in review: utility easements (natural gas, electric, pipelines), 3 mortgages, property taxes, right-of-way easement, county ditch, easement, and old railroad right of way.

- Coordinated and worked with BWSR, County Drainage Authority, survey company, and landowner to revise legal survey on easement land to meet requirements of all involved.

- Completed engineering surveys, reviewed, and coordinated with landowners and engineer on possible changes to engineering plan on grad stabs (final plans completed and out for bid)

Activity Name: Landowner Contribution

Activity Category: Easements

Staff time?: No

Description: Landowner Contribution

Actual Results

<u>Results</u>	<u>Date Added</u>
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	1/23/2019 10:34:07 AM
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Activity Name: Match

Activity Category: Administration/Coordination

Staff time?: No

Description: Match

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>
Local Fund	Match	\$6,563.00	\$6,563.00	\$0.00	12/31/2022	Y

Actual Results

Results Date Added

Phone calls, emails, copies of docs, etc. for follow up with landowners, BWSR, County and County Attorney. Grant reporting, etc. 2/7/2023 11:33:36 AM

57 hours x \$57.07

16 hours x \$59.31

42 hours x \$60.31

Total \$6,734.55 per billable rates

Activity Name: Side Inlet #1

Activity Category: Agricultural Practices

Staff time?: No

Description: Side Inlet #1. A grade stabilization side inlet structure using NRCS practice standard 410 will be constructed to stabilize an active gully head, thereby reducing sediment delivery to the storage and treatment wetland. This site is located north and west of side inlet #2.

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 Contribution at 75% C/S	\$2,500.00		\$2,500.00		Y
Current State Grant	2019 - CWF MDM County Ditch 68	\$7,500.00		\$7,500.00		N
Actual Results						
<u>Results</u>						<u>Date Added</u>
						1/23/2019 10:15:12 AM

Activity Name: Side Inlet #2						
Activity Category: Agricultural Practices					Staff time?: No	
Description: Side Inlet #2. A grade stabilization structure side inlet using NRCS practice standard 410 will be constructed to stabilize an active gully head, thereby reducing sediment being delivered to the storage and treatment wetland site. This structure is located south and east of Side Inlet #1.						
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 Contribution at 75% C/S	\$2,500.00		\$2,500.00		Y
Current State Grant	2019 - CWF MDM County Ditch 68	\$7,500.00		\$7,500.00		N
Actual Results						
<u>Results</u>						<u>Date Added</u>
						1/23/2019 10:15:32 AM

Activity Name: Storage & Treatment Wetland Restoration						
Activity Category: Wetland Restoration/Creation					Staff time?: No	
Description: Wetland Construction						

Actual Results

Results Date Added

1/23/2019 10:15:50 AM

Activity Name: Storage and Treatment Wetland and Buffer Easement

Activity Category: Wetland Restoration/Creation

Staff time?: No

Description: This Activity is for the restoration of a 40 acre storage and treatment wetland, and two cropped/altered wetland restorations of one acre each, as well as costs to convey easements for the restored wetlands. NRCS Practice Standard 657 - Wetland Restoration - will be used to design and construct the practice. Staff with requisite JAA will design and oversee installation of the practice. A flowage easement using the BWSR template or an equivalent that is approved by BWSR will be used. The easement is estimated at \$323,062 and the restorations at \$6,000.

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 Contribution for restoration and easement	\$87,578.00		\$87,578.00		Y
Current State Grant	2019 - CWF MDM County Ditch 68	\$329,062.00		\$329,062.00		N

Actual Results

Results Date Added

2/14/2019 1:53:27 PM

Activity Name: Technical Assistance

Activity Category: Technical/Engineering Assistance

Staff time?: Yes

Description: Technical Assistance to be provided by SWCD staff with appropriate JAA, under the guidance of the TSA Civil Engineering Technician who has requisite JAA.

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>
Current State Grant	2019 - CWF MDM County Ditch 68	\$11,250.00	\$11,250.00	\$0.00	12/31/2021	N

Actual Results

Results **Date Added**

SWCD technical staff has been working closely with the SE Joint Powers Board Engineer. Some survey work has been completed on site. Staff 1/23/2019 10:16:07 AM have also been fielding questions from the landowners involved and communicating with Freeborn County staff. Staff also consulted with BWSR staff for guidance in carrying out this Multipurpose Drainage Management Grant. T&A spent in 2019 was \$2510.70. T&A spent in 2020 was \$242.50 in house and \$3301.51 JPB engineer.

2021 continuation of 2020. Some additional survey, assisted TSA. Fielding landowner question, etc. 3 hours @ = \$51.42.