



Grant Work Plan

Projects and Practices 2019

Grant Title: 2019 St. Croix River Escarpment Gully Stabilization

Grant Award (\$): \$90,000.00

Grant Execution Date: 03/06/2019

Grant ID: C19-2637

Required Match (%): 25

Grant End Date: 12/31/2022

Grantee: Chisago SWCD

Required Match (\$): \$22,500.00

Fiscal Agent: Chisago SWCD

Grant Day-to-Day Contact: Jacquelynn Olson

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$90,000.00	\$90,000.00	\$0.00
Match Funds	\$22,500.00	\$34,966.40	(\$12,466.40)
Other Funds	\$0.00	\$2,404.32	(\$2,404.32)
Total	\$112,500.00	\$127,370.72	(\$14,870.72)

*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?
Administration	Administration/Coordination	Current State Grant	2019 St. Croix River Escarpment Gully Stabilization	\$5,000.00	\$7,148.50	(\$2,148.50)	N
Construction	Agricultural Practices	Current State Grant	2019 St. Croix River Escarpment Gully Stabilization	\$70,000.00	\$65,944.00	\$4,056.00	N
Construction	Agricultural Practices	Current State Grant	2021 Priority Implementation Targeting	\$0.00	\$1,202.16	(\$1,202.16)	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>
			Lawrence Creek, Dry C..				
Construction	Agricultural Practices	Federal Funds	Landowner - Federal Funds	\$11,000.00	\$34,966.40	(\$23,966.40)	Y
Construction	Agricultural Practices	Landowner Fund	Landowner Fund	\$11,500.00		\$11,500.00	Y
Technical/Engineering	Technical/Engineering Assistance	Current State Grant	2019 St. Croix River Escarpment Gully Stabilization	\$15,000.00	\$16,907.50	(\$1,907.50)	N

<i>Activity Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Agricultural Practices	Water Pollution (Reduction Estimates)	50	Phosphorus (Est. Reduction)
Agricultural Practices	Water Pollution (Reduction Estimates)	50	Sediment (Tss)

<i>Activity Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Agricultural Practices	Water Pollution (Reduction Estimates)	8.5	Phosphorus (Est. Reduction)
Agricultural Practices	Water Pollution (Reduction Estimates)	8.5	Soil (Est. Savings)
Agricultural Practices	Water Pollution (Reduction Estimates)	38.25	Phosphorus (Est. Reduction)
Agricultural Practices	Water Pollution (Reduction Estimates)	8.5	Sediment (Tss)
Agricultural Practices	Water Pollution (Reduction Estimates)	38.25	Soil (Est. Savings)
Agricultural Practices	Water Pollution (Reduction Estimates)	38.25	Sediment (Tss)
Agricultural Practices	Water Pollution (Reduction Estimates)	1.4	Soil (Est. Savings)

Indicator Summary

<i>Activity Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Agricultural Practices	Water Pollution (Reduction Estimates)	1.4	Soil (Est. Savings)
Agricultural Practices	Water Pollution (Reduction Estimates)	19.64	Phosphorus (Est. Reduction)
Agricultural Practices	Water Pollution (Reduction Estimates)	110.73	Phosphorus (Est. Reduction)
Agricultural Practices	Water Pollution (Reduction Estimates)	110.73	Sediment (Tss)
Agricultural Practices	Water Pollution (Reduction Estimates)	19.64	Sediment (Tss)
Agricultural Practices	Water Pollution (Reduction Estimates)	533.53	Phosphorus (Est. Reduction)
Agricultural Practices	Water Pollution (Reduction Estimates)	533.53	Sediment (Tss)
Agricultural Practices	Water Pollution (Reduction Estimates)	1843.01	Soil (Est. Savings)
Agricultural Practices	Water Pollution (Reduction Estimates)	1.33	Soil (Est. Savings)
Agricultural Practices	Water Pollution (Reduction Estimates)	67.83	Soil (Est. Savings)
Agricultural Practices	Water Pollution (Reduction Estimates)	382.5	Soil (Est. Savings)

<i>Activity Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Agricultural Practices	Water Pollution (Reduction Estimates)	3.4	Phosphorus (Est. Reduction)
Agricultural Practices	Water Pollution (Reduction Estimates)	0.68	Sediment (Tss)
Agricultural Practices	Water Pollution (Reduction Estimates)	0.68	Soil (Est. Savings)
Agricultural Practices	Water Pollution (Reduction Estimates)	2.46	Phosphorus (Est. Reduction)
Agricultural Practices	Water Pollution (Reduction Estimates)	1.33	Sediment (Tss)

Grant Activities

Activity Name: Administration

Activity Category: Administration/Coordination

Staff time?: Yes

Description: Carry out administrative duties associated with executing the grant agreement, fulfilling reporting requirements, preparing contracts, tracking activities and hours, etc. Craig Mell, District Administrator will be responsible for activities including grant agreements, contracts, time tracking, and reporting to the SWCD Board. The Chisago SWCD Conservation Technician will be responsible for reporting.

We plan to continue to host local farmer meetings and events, tours of best management practices that include demonstrations about pertinent topics, such as soil health. During our annual event we will highlight projects along the St. Croix escarpment and their benefits to water quality and soil health.

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 St. Croix River Escarpment Gully Stabilization	\$5,000.00	\$7,148.50	(\$2,148.50)	01/03/2022	N

Actual Results

As of December 31, 2019

Administration work included grant coordination, contracting projects, completed invoices and issuing payment for Kevin Rochel's Home and Gerald Olson's farm.

As of Jan. 1, 2021

Administration work included reporting possible projects and grant progress to the SWCD board.

As of April 1st, 2021

Admin work contracting projects and grant progress to the SWCD board.

As of July 1, 2021

Admin work contracting projects and grant progress reports to the SWCD board

As of Jan 1, 2022

Admin work on budgets and vouchers for completed projects

As of October 21, 2022

Admin consisted of final contract documents, eLink reporting for projects and grant closeout

Activity Name: Construction

Activity Category: Agricultural Practices

Staff time?: No

Description: Cost share funds for implementation of designed BMPs. In 2018, Chisago SWCD staff completed topographic surveys and preliminary designs for several projects along the St. Croix River escarpment. Landowner projects include Rochel, Olson, Peterson, Oswald, Waletzko's, and City of Taylors Falls. Practices on the preliminary design list include (638) water and sediment control basins, (362) diversions, (468) lined waterway and outlet, and (410) grade stabilization structure. NRCS Standards will be followed for all practices listed above.

These projects will reduce the phosphorus loading by at least 50 pounds per year and sediment loading by at least 50 tons per year.

The landowner is responsible for soliciting bids for the project and for hiring a contractor. In some cases, the landowner signs a document that allows the Chisago SWCD to solicit bids on the landowners' behalf. When bids are received, the Chisago SWCD reviews them to ensure that the costs are reasonable and within the budget allotted for the project. The SWCD has a list of contractors that we have worked with on prior projects that the landowner can use if they choose. The landowner is also free to solicit bids from companies not on the list. Once the SWCD has approved bids as being acceptable and within the budget limits (or the landowner has agreed to pay any costs above and beyond the SWCD's project), the landowner makes the final decision on which bid to accept.

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 St. Croix River Escarpment Gully Stabilization	\$70,000.00	\$65,944.00	\$4,056.00	10/11/2022	N
Federal Funds	Landowner - Federal Funds	\$11,000.00	\$34,966.40	(\$23,966.40)	01/11/2022	Y
Landowner Fund	Landowner Fund	\$11,500.00		\$11,500.00		Y
Current State Grant	2021 Priority Implementation Targeting Lawrence Creek, Dry C..	\$0.00	\$1,202.16	(\$1,202.16)	09/15/2022	N

Actual Results

As of December 31, 2019

Kevin Rochel Home and Gerald Olson's projects were installed.

As of Jan. 1, 2022

Jason Quist and Mallery Jersey's projects were completed in the fall and certified by NRCS engineering staff.

As of October 21, 2022

Allen Peltier's erosion project finalized this grant.

Final Indicators		
<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Phosphorus (Est. Reduction)	5.86	Ppb
Phosphorus (Est. Reduction)	533.53	Ppb
Phosphorus (Est. Reduction)	8.5	Ppb
Sediment (Tss)	2.01	Lbs/Yr
	9.9	
Phosphorus (Est. Reduction)	110.73	Ppb
Sediment (Tss)	8.5	Lbs/Yr
Sediment (Tss)	38.25	Lbs/Yr
Phosphorus (Est. Reduction)	38.25	Ppb
Sediment (Tss)	533.53	Lbs/Yr
	2.01	
	382.5	
Phosphorus (Est. Reduction)	19.64	Ppb
Sediment (Tss)	110.73	Lbs/Yr
	39.65	
Sediment (Tss)	19.64	Lbs/Yr
	1843.01	
	67.83	

Activity Action Name:	Allen Peltier	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 226 - Cfu
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	WASCOB to control field erosion	Install Date: 09/15/2022
		Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	1.33	Bwsr Calc (Sheet And Rill)	St.Croix River
Soil (Est. Savings)	0.68	Bwsr Calc (Gully Stabilization)	St.Croix River
Soil (Est. Savings)	1.33	Bwsr Calc (Sheet And Rill)	St.Croix River
Soil (Est. Savings)	0.68	Bwsr Calc (Gully Stabilization)	St.Croix River
Sediment (Tss)	0.68	Bwsr Calc (Gully Stabilization)	St.Croix River
Sediment (Tss)	1.33	Bwsr Calc (Sheet And Rill)	St.Croix River
Phosphorus (Est. Reduction)	3.4	Bwsr Calc (Gully Stabilization)	St.Croix River
Phosphorus (Est. Reduction)	2.46	Bwsr Calc (Sheet And Rill)	St.Croix River

Activity Action Name:	Mallery Jerseys	Activity Count: 1
Practice Type:	410 - Grade Stabilization Structure	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	NRCS	Lifespan: 10 Years
Practice Description:	Embankment Dam- drainage area 70-100acres	Install Date: 12/14/2021
		Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	382.5	Bwsr Calc (Gully Stabilization)	St.Croix River
Soil (Est. Savings)	382.5	Bwsr Calc (Gully Stabilization)	St.Croix River
Sediment (Tss)	110.73	Bwsr Calc (Gully Stabilization)	St.Croix River
Phosphorus (Est. Reduction)	110.73	Bwsr Calc (Gully Stabilization)	St.Croix River

Activity Action Name: Jason Quist N. WASCOB	Activity Count: 1
Practice Type: 638 - Water and Sediment Control Basin	Size/Units: 308 - Cfu
TA Provider/JAA: NRCS	Lifespan: 10 Years
Practice Description: Berm less than 4' tall, grassed	Install Date: 12/13/2021
	Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	1843.01	Bwsr Calc (Gully Stabilization)	St. Croix River
Soil (Est. Savings)	1843.01	Bwsr Calc (Gully Stabilization)	St. Croix River
Sediment (Tss)	533.53	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	533.53	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name: Jason Quist S. WASCOB	Activity Count: 1
Practice Type: 638 - Water and Sediment Control Basin	Size/Units: 246 - Cfu
TA Provider/JAA: NRCS	Lifespan: 10 Years
Practice Description: Berm between 6' and 8' tall, grassed	Install Date: 12/13/2021
	Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	67.83	Bwsr Calc (Gully Stabilization)	St. Croix River
Soil (Est. Savings)	67.83	Bwsr Calc (Gully Stabilization)	St. Croix River
Sediment (Tss)	19.64	Bwsr Calc (Gully Stabilization)	St. Croix River
Phosphorus (Est. Reduction)	19.64	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name: Kevin Rochel (Gerald Olson)	Activity Count: 1
Practice Type: 638 - Water and Sediment Control Basin	Size/Units: 300 - Cfu
TA Provider/JAA: NRCS	Lifespan: 10 Years
Practice Description: WASCOB 165' grassed 4-6' tall, 135' farmed	Install Date: 07/09/2019
	Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	1.4	Rusle2 (Updated)	St. Croix River
Soil (Est. Savings)	8.5	Bwsr Calc (Gully Stabilization)	St. Croix River
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Phosphorus (Est. Reduction)	8.5	Bwsr Calc (Gully Stabilization)	St. Croix River

Activity Action Name: Kevin Rochel Home WASCOBs	Activity Count: 3
Practice Type: 638 - Water and Sediment Control Basin	Size/Units: 1467 - Cfu
TA Provider/JAA: NRCS	Lifespan: 10 Years
Practice Description: Grassed berms less than 4' tall	Install Date: 07/09/2019
	Mapped: Yes

Indicator Name/Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	38.25	Bwsr Calc (Gully Stabilization)	St.Croix River
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Activity Category: Agricultural Practices

Staff time?: No

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Actual Results

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Sediment (Tss)	38.25	Bwsr Calc (Gully Stabilization)	St.CROix River
Phosphorus (Est. Reduction)	38.25	Bwsr Calc (Gully Stabilization)	St.Croix River

Activity Name: Technical/Engineering

Activity Category: Technical/Engineering Assistance

Staff time?: Yes

Description: Development of final design plan set, construction staking, construction oversight, and check out of construction projects. Working with contractors to install the project as designed to meet specifications.

Engineering and project certification will be provided by PE Rebecca Nestingen (Washington CD) and NRCS Engineer Technician Marvin Kunkel. The primary local technical and engineering assistance support will be provided by Chisago SWCD District Technician Shane Hultman, Water Resource Specialist Casey Thiel, Conservation Technician TBD, and USDA NRCS SCT Jason Rehn. For a complete list of JAA, contact the SWCD.

Budget Details

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Current State Grant	2019 St. Croix River Escarpment Gully Stabilization	\$15,000.00	\$16,907.50	(\$1,907.50)	01/03/2022	N

Actual Results

As of December 31, 2019

Technical and engineering assistance on site visits, before, during, and after construction on both Kevin Rochel projects. Design work on projects for 2020.

As of Jan.1, 2021

Technical and engineering assistance on site visits and designs for potential future projects.

As of April 1st, 2021

Technical assistance and engineering work preparing projects for spring install

As of July 1, 2021

Technical assistance and engineering work preparing projects for spring/fall install

As of Jan 1, 2022

Technical assistance and engineering work providing construction oversight, final surveying and as-builts for completed projects as well as surveys for future projects.

As of October 21, 2022

TA performed on Peltier project before and during construction to complete grant.