



## Grant All-Detail Report Projects and Practices 2018

**Grant Title** - Skunk Creek Watershed Sediment Reduction

**Grant ID** - C18-3114

**Organization** - Carlton SWCD

Original Awarded Amount	<b>\$414,830.00</b>	Grant Execution Date	<b>2/28/2018</b>
Required Match Amount	\$103,707.50	Original Grant End Date	12/31/2020
Required Match %	25%	Grant Day To Day Contact	Alyssa Alness
Current Awarded Amount	\$414,830.00	Current End Date	12/31/2021

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$414,830.00	\$249,634.78	\$165,195.22
Total Match Amount	\$102,830.00	\$145,297.97	\$-42,467.97
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$517,660.00</b>	<b>\$394,932.75</b>	<b>\$122,727.25</b>

*\*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	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Carlton County Transportation Match	Technical/Engineering Assistance	Local Fund	Carlton County Transportation	\$52,830.00	\$87,503.51	10/10/2019	Y
Construction	Streambank or Shoreline Protection	Current State Grant	Skunk Creek Watershed Sediment Reduction	\$196,866.70	\$197,027.86	12/31/2020	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Construction Match	Streambank or Shoreline Protection	Federal Funds	Fish and Wildlife Service Fish Passage Program	\$50,000.00	\$57,794.46	9/13/2019	Y
Little Net River Stream Stabilization	Streambank or Shoreline Protection	Current State Grant	Skunk Creek Watershed Sediment Reduction	\$152,606.56			N
NCD Engineering Assitance	Technical/Engineering Assistance	Current State Grant	Skunk Creek Watershed Sediment Reduction	\$9,353.60	\$9,353.60	10/8/2019	N
Project Administration	Administration /Coordination	Current State Grant	Skunk Creek Watershed Sediment Reduction	\$27,000.00	\$19,757.94	12/31/2020	N
Survey Equipment	Supplies/Equipment	Current State Grant	Skunk Creek Watershed Sediment Reduction	\$1,003.14	\$1,003.14	5/17/2018	N
Technical Assistance	Technical/Engineering Assistance	Current State Grant	Skunk Creek Watershed Sediment Reduction	\$28,000.00	\$22,492.24	12/1/2020	N

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
580 - Streambank and Shoreline Protection	1	3	575 LINEAR FEET	1873 LINEAR FEET
580 - Streambank and Shoreline Protection	1	2	200 LINEAR FEET	LINEAR FEET

### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
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## Final Indicators Summary

Indicator Name	Total Value	Unit
SOIL (EST. SAVINGS)	329.00	TONS/YR
SEDIMENT (TSS)	280.00	TONS/YR
PHOSPHORUS (EST. REDUCTION)	379.00	LBS/YR

## Grant Activity

Grant Activity - Carlton County Transportation Match			
Description	Construction Inspection, permitting and survey/project staking match.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Apr-18	End Date	10-Oct-19
Has Rates and Hours?	No		
Actual Results	County Transportation Department assistance with bidding, right of way purchase, permitting assistance and design development. The winter of 2018-2019, the transportation department harvested the needed woody material (root wads) for the project. They also provided contracting and construction inspection assistance.		

Grant Activity - Construction			
Description	Removal of pipe structure and stream restoration construction. Slope stabilization of two slump areas upstream of stream restoration. Construction inspection provided by the Carlton County Transportation Department and will be overseen by the County Engineer, along with assistance as needed from the design engineers (Cardno).		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	15-Jul-19	End Date	01-Jul-19
Has Rates and Hours?	No		
Actual Results	Public Waters Permit was submitted. Project construction was completed, which included two bank stabilization areas, removal of the concrete weir/pipe structure and a reconstructed stream channel. In stream structures included toewood, J-hooks and log vanes. Tree and shrub planting was completed.		

Activity Action - Streamban Protection and Restoration			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description			
Proposed Size / Units	575.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	1,873.00 LINEAR FEET	Installed Date	30-Aug-19
Mapped Activities	3 Line(s)	Technical Assistance Provider	

Final Indicator for Streamban Protection and Restoration			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	322
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Skunk Creek		

Final Indicator for Streamban Protection and Restoration			
Indicator Name	SOIL (EST. SAVINGS)	Value	280
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Skunk Creek		

Final Indicator for Streamban Protection and Restoration			
Indicator Name	SEDIMENT (TSS)	Value	280
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Skunk Creek		

Grant Activity - Construction Match			
Description	Fish Passage Program Construction Match		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Apr-18	End Date	10-Oct-19
Has Rates and Hours?	No		
Actual Results	Project designs were finalized by consulting engineer. Match also funded part of the construction costs.		

Grant Activity - Little Net River Stream Stabilization			
Description	Stream stabilization on Little Net River where an undersized culvert chronically increased stream velocities, destabilizing the toe of the bank. The culvert will be replaced using Township Bridge Funds and a DNR grant. Funds will be used for stream design (engineering) and stream stabilization construction expenses.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	31-Jul-20	End Date	
Has Rates and Hours?	No		
Actual Results	Bridge and stream restoration designs were started. Army Corps and wetlands permits were submitted and approved. Project easements with downstream landowner was completed through the Transportation Department.		

Activity Action - Little Net River Stream Stabilization			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description			
Proposed Size / Units	200.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	LINEAR FEET	Installed Date	
Mapped Activities	2 Line(s)	Technical Assistance Provider	

Final Indicator for Little Net River Stream Stabilization			
Indicator Name	SOIL (EST. SAVINGS)	Value	49
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Little Net River		

Final Indicator for Little Net River Stream Stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	57
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Little Net River		

Grant Activity - NCD Engineering Assitance			
Description	Natural Channel Design Engineering Assistance will be provided by Cardno and North Flow LLC. Their team have experience with stream restoration throughout the US and Midwest, including local experience. Their staff have Level 4 Rosgen training.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Apr-18	End Date	10-Oct-19
Has Rates and Hours?	No		
Actual Results	Cardno provided construction inspection services through the project.		

Grant Activity - Project Administration			
Description	Hours for Water Resources Technician to provide coordination between the Carlton County Transportation Department, Engineers and contractors. Some time may be used to evaluate the next Red Clay Dam/Nemadji projects, citizen outreach and required Grant Reporting. Through a MPCA Civic Engagement grant, newsletters are planned in the Nemadji Watershed, and if funded, this project will be included in an article. In addition, an effort is planned to recruit additional citizen monitors to help collect transparency data in the watershed. Social media will also be used to share project updates, and possible news related articles in the local Pine Journal may also be submitted.		
Category	ADMINISTRATION/COORDINATION		
Start Date	1-Apr-18	End Date	
Has Rates and Hours?	Yes		
Actual Results	Coordination of project design was completed in 2018. Project was put out to bid in December 2018, with the bid opening in January 2019. Project stream construction started in July and ended in August 2019. Final planting is planned for spring 2020. Coordination for the Little Net River project started in 2020.		

Grant Activity - Survey Equipment		
Description	Laser, Rod, Tripod and survey books to be used for construction and stream assessments.	
Category	SUPPLIES/EQUIPMENT	
Start Date		End Date
Has Rates and Hours?	No	
Actual Results	Purchased laser, rod and survey paper.	

Grant Activity - Technical Assistance		
Description	Hours for the Water Resource Technician to assist with survey, design, inspection and permitting of stream stabilization project, along with providing stream assessments/culvert inventory as needed.	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date	1-Apr-18	End Date
Has Rates and Hours?	Yes	
Actual Results	All permits were applied for and received for the project (Public Waters, Army Corps, County Shoreland and wetland). Construction started in July 2019 and completed August 2019. Tree planting was completed in the spring of 2020.	

### Grant Attachments

Document Name	Document Type	Description
<b>2018 Competitive Grant</b>	Grant Agreement	2018 Competitive Grant - Carlton SWCD
<b>2018 Competitive Grant Amendment EXECUTED</b>	Grant Agreement Amendment	
<b>2018 Competitive Grant executed</b>	Grant Agreement	2018 Competitive Grant - Carlton SWCD
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/03/2019
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 05/07/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/26/2019
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 05/07/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/11/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 07/29/2020

Document Name	Document Type	Description
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 08/04/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/16/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 08/04/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/14/2021
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 08/08/2017
<b>Approximate Stream Channel Alignment</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Army Corps Permit</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Carlton County Transportation Match</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Completed Area 1 Pano</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Construction Invoice 2019</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Construction Invoice Veit</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Construction Oversight Invoice</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Construction Oversight Invoice 2</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Construction Vouchers</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Drone Photo Area 1</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Fish and Wildlife Service Final Report</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Flood Photos</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Grant Amendment</b>	Grant Agreement Amendment	
<b>Hours for 2018</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Hours for 2019 Field Season</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Maintanence Agreement</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>NPDS Permit</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Preconstruction Drone Site 2</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Public Waters Permit</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Public Waters Permit Invoice</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Signed 40% Financial Report</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Skunk Creek Bid Summary</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Skunk Creek Bids</b>	Grant	Skunk Creek Watershed Sediment Reduction



Document Name	Document Type	Description
<b>Skunk Creek Design</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Skunk Creek Project Fact Sheet</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Skunk Creek Tree Planting Voucher</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Skunk Creek Watershed Application Images</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>SurveyEquipmentInvoice</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 02/11/2020
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 02/10/2020
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 12/20/2017
<b>Workplan revision request</b>	Grant	Skunk Creek Watershed Sediment Reduction
<b>grantmap_18811_2017-08-02_02-31-09-PM.jpg</b>	Grant	Skunk Creek Watershed Sediment Reduction