



# Grant All-Detail Report Projects and Practices 2020

**Grant Title** - Coordinated Mill Overlay, Sewer Expansion, and 5 Crosslake Runoff Retrofits

**Grant ID** - C20-7237

**Organization** - Crow Wing SWCD

<b>Original Awarded Amount</b>	<b>\$315,000.00</b>	<b>Grant Execution Date</b>	<b>3/16/2020</b>
<b>Required Match Amount</b>	\$78,750.00	<b>Original Grant End Date</b>	12/31/2022
<b>Required Match %</b>	25%	<b>Grant Day To Day Contact</b>	Melissa Barrick
<b>Current Awarded Amount</b>	<b>\$315,000.00</b>	<b>Current End Date</b>	12/31/2022

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$315,000.00	\$315,000.00	\$0.00
Total Match Amount	\$78,750.00	\$112,628.06	\$-33,878.06
Total Other Funds	\$100,000.00	\$0.00	\$100,000.00
<b>Total</b>	<b>\$493,750.00</b>	<b>\$427,628.06</b>	<b>\$66,121.94</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
3 Rain Gardens	Urban Stormwater Management Practices	Current State Grant		\$300,782.91	\$300,782.91	12/21/2022	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
3 Rain Gardens	Urban Stormwater Management Practices	Other Funds		\$100,000.00			N
Crow Wing SWCD Admin	Administration /Coordination	Current State Grant	Coordinated Mill Overlay, Sewer Expansion, and 5 Crosslake R..	\$3,925.02	\$3,925.02	12/31/2022	N
Engineering	Technical/Engineering Assistance	Current State Grant	Coordinated Mill Overlay, Sewer Expansion, and 5 Crosslake R..	\$0.00			N
Match	Technical/Engineering Assistance	Local Fund	Match	\$78,750.00	\$112,628.06	12/31/2022	Y
Project Development	Project Development	Current State Grant	Coordinated Mill Overlay, Sewer Expansion, and 5 Crosslake R..	\$10,292.07	\$10,292.07	12/31/2022	N

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
712M - Bioretention Basin	3	3	14371.37 SQUARE FEET	143771.37 SQUARE FEET

### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
5 Rain Gardens	VOLUME REDUCED (ACRE- FEET/YEAR)	4.1 ACRE-FEET/YR	Cross Lake	MIDS	
5 Rain Gardens	PHOSPHORUS (EST. REDUCTION)	12 LBS/YR	Cross Lake	MIDS	
5 Rain Gardens	SEDIMENT (TSS)	1.2 TONS/YR	Cross Lake	MIDS	

## Final Indicators Summary

Indicator Name	Total Value	Unit
<b>SEDIMENT (TSS)</b>	0.64	TONS/YR
<b>PHOSPHORUS (EST. REDUCTION)</b>	6.37	LBS/YR

## Grant Activity

Grant Activity - 3 Rain Gardens			
<b>Description</b>	The Crow Wing SWCD and City of Crosslake will partner with the Log Church, Moonlight Bay Square, Old Log Landing, and Simonson Lumber to install five bioretention areas. The SWCD will ensure that CWF procedures are followed.		
<b>Category</b>	URBAN STORMWATER MANAGEMENT PRACTICES		
<b>Start Date</b>	17-Mar-20	<b>End Date</b>	31-Oct-22
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	Three infiltration basins (rain gardens) were installed on September 15th, 2022, along the right of way of HWY 66, running from Cross Lake City Hall to Moonlight Square. The total drainage area captured by these basins is 10.3 acres. Storm sewer pipes are directed into basins to remove phosphorus and sediment being carried by stormwater. Previously, water flowed untreated into Cross Lake. Cross lake plan has a reduction goal of 16 lbs of phosphorus per year. This project removed 6.37 lbs of dissolved and particulate phosphorus per year and .64 tons of sediment per year. This completes 40 percent of Cross Lake's phosphorus reduction goals. Crosslake is a priority lake in the Pine River One Watershed One Plan.		

Activity Action - 3 Rain Gardens			
<b>Practice</b>	712M - Bioretention Basin	<b>Count of Activities</b>	3
<b>Description</b>	Three infiltration basins (rain gardens) were installed along the right of way of HWY 66 running from Cross Lake City Hall to Moonlight Square. The total drainage area impacted by these basins is 10.3 acres. Storm sewer pipes are directed into basins to remove phosphorus and sediment being carried by stormwater. Previously, water flowed untreated into Island-Loon Lake. Island-Loon's lake plan has a reduction goal of 16 lbs of phosphorus per year. This project removed 6.37 lbs of dissolved and particulate phosphorus per year and .64 tons of sediment per year. This completes 40 percent of Island-Loons phosphorus reduction goals. Island-Loon is a priority lake in the Pine River One Watershed One Plan.		
<b>Proposed Size / Units</b>	14,371.37 SQUARE FEET	<b>Lifespan</b>	10 Years
<b>Actual Size/Units</b>	143,771.37 SQUARE FEET	<b>Installed Date</b>	15-Sep-22
<b>Mapped Activities</b>	3 Point(s)	<b>Technical Assistance Provider</b>	Private Consultant

**Final Indicator for 3 Rain Gardens**

<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	.64
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	MIDS
<b>Waterbody</b>	Island-Loon		

**Final Indicator for 3 Rain Gardens**

<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	6.37
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	MIDS
<b>Waterbody</b>	Island-Loon		

**Grant Activity - Crow Wing SWCD Admin**

<b>Description</b>	The Crow Wing SWCD will be the fiscal agent and complete the following items: pay bills, contracts, track time, pay staff, annual reporting, elink, and complete BWSR reconciliations. The SWCD will follow BWSR Clean Water Fund Policy and grant manual.		
<b>Category</b>	ADMINISTRATION/COORDINATION		
<b>Start Date</b>	17-Mar-20	<b>End Date</b>	31-Dec-22
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>	The SWCD track staff time through a time tracker and expense related to this project. The SWCD staff also completed the required Elink reporting.		

Grant Activity - Engineering			
Description	The City of Crosslake with contract with Bolton & Menk, Inc to complete the engineering for this project. A professional engineer will design, complete construction management and certification of the project.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	17-Mar-20	End Date	31-Dec-22
Has Rates and Hours?	Yes		
Actual Results	The City of Crosslake hired Bolton and Menk, Inc to complete the engineering for this project. Bolton and Menk, Inc have completed the full engineering plans and requested the contractor to bid on the project. The City paid the whole bill for engineering as a match. See the match category.		

Grant Activity - Match			
Description	The City of Crosslake estimated a ten percent savings in material and mobilization costs to coordinate both the sewer expansion with the stormwater projects. The Crow Wing SWCD will track both in kind expenses such as materials and land and cash contributions.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	31-Mar-20	End Date	31-Dec-22
Has Rates and Hours?	No		
Actual Results	On March 17, 2021, the City of Crosslake established an MOU with the Crow Wing Soil and Water Conservation District to include the 25 percent match requirement, maintenance, and ownership. In January 2022, Crow Wing County and the City of Crosslake agreed to cost-share on the match amount of \$39,375 each. The Total construction costs were \$412,650.0. The total engineering cost \$74,277.16. The City purchased an easement for the project for \$75,700. The total project cost is \$562,628.06		

## Grant Activity - Project Development

<b>Description</b>	The Crow Wing SWCD will work with five landowners to complete BWSR Cost-Share Contracts, maintenance agreements, planting list, and site plan. The SWCD will partner with the City of Crosslake and Bolt & Menk, Inc. to ensure all the project planning is done and projects are installed properly.		
<b>Category</b>	PROJECT DEVELOPMENT		
<b>Start Date</b>	17-Mar-20	<b>End Date</b>	31-Dec-22
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>	The Crow Wing SWCD has been working with three landowners to complete BWSR Cost-Share Contracts, maintenance agreements, a planting list, and a site plan. The SWCD is partnering with the City of Crosslake and Bolt & Menk, Inc. to ensure all the project planning is done and projects are correctly installed. The project is out for bid and awaiting Council approval for the project. Bolton Menk did all construction management, oversight, and communication with the contractor. The SWCD attended some meetings and provided input. The SWCD staff time was lessened than planned due to the consultant firm.		

## Grant Attachments

Document Name	Document Type	Description
<b>2020 Competitive Grant</b>	Grant Agreement	2020 Competitive Grant - Crow Wing SWCD
<b>2020 Competitive Grant EXECUTED</b>	Grant Agreement	2020 Competitive Grant - Crow Wing SWCD
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/27/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 10/31/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/24/2023
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/19/2023
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 10/20/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/27/2023
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/16/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/27/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/17/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 10/31/2022
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 09/09/2019

Document Name	Document Type	Description
<b>Coordinated Mill Overlay, Sewer, Crosslake Runoff Retrofit\Coordinated Mill Overlay, Sewer, Crosslake Runoff Retrofit Grant Agreement</b>	Grant	Coordinated Mill Overlay, Sewer Expansion, and 5 Crosslake Runoff Retrofits
<b>Cross Lake Project Handout</b>	Grant	Coordinated Mill Overlay, Sewer Expansion, and 5 Crosslake Runoff Retrofits
<b>Drainage Area and Rain Garden Map</b>	Grant	Coordinated Mill Overlay, Sewer Expansion, and 5 Crosslake Runoff Retrofits
<b>Final Financial Report 2020 CWF</b>	Progress	Progress Dated - 01/19/2023
<b>Final Reduction Numbers</b>	Grant	Coordinated Mill Overlay, Sewer Expansion, and 5 Crosslake Runoff Retrofits
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 10/03/2022
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 10/04/2022
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 01/22/2020
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 10/03/2022
<b>grantmap_25693_2019-09-09_12-57-57-PM.jpg</b>	Grant	Coordinated Mill Overlay, Sewer Expansion, and 5 Crosslake Runoff Retrofits