



Grant All-Detail Report

Watershed Based Funding Pilot 2018

Grant Title - 2018 - Lake Superior North Watershed Plan Implementation

Grant ID - C18-1000

Organization - Cook SWCD

Original Awarded Amount	\$387,059.00	Grant Execution Date	5/8/2018
Required Match Amount	\$38,705.90	Original Grant End Date	12/31/2021
Required Match %	10%	Grant Day To Day Contact	Ilena Hansel
Current Awarded Amount	\$387,059.00	Current End Date	12/31/2021

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$387,059.00	\$9,962.73	\$377,096.27
Total Match Amount	\$0.00	\$0.00	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$387,059.00	\$9,962.73	\$377,096.27

*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
City of Grand Marais Stormwater Plan Implementation	Urban Stormwater Management Practices	Current State Grant	2018 - Lake Superior North Watershed Plan Implementation	\$307,059.00	\$188.91	6/30/2018	N
Coastal Zone Erosion Hazard Map	Inventory/Mapping	Current State Grant	2018 - Lake Superior North Watershed Plan Implementation	\$45,000.00	\$7,098.81	12/31/2018	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Funding coordination, administration and fiscal management	Administration /Coordination	Current State Grant	2018 - Lake Superior North Watershed Plan Implementation	\$35,000.00	\$2,675.01	12/31/2018	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
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Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
City of Grand Marais Stormwater Plan Implementation	VOLUME REDUCED (ACRE- FEET/YEAR)	0.01 ACRE- FEET/YR	Lake Superior	Other	Calc Tool - XPSWMM; Highway 61 corridor management
City of Grand Marais Stormwater Plan Implementation	PHOSPHORUS (EST. REDUCTION)	82 LBS/YR	Lake Superior	Other	Calc Tool- XPSWMM; Connect channel to floodplain; bank stabilize Creek/Ditch
City of Grand Marais Stormwater Plan Implementation	SEDIMENT (TSS)	6.7 TONS/YR	Lake Superior	Other	Calc Tool - XPSWMM; Connect channel to floodplain; bank stabilize Creek/Ditch

Final Indicators Summary

Indicator Name	Total Value	Unit
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Grant Activity

Grant Activity - City of Grand Marais Stormwater Plan Implementation

Description	Stormwater best management practices will be implemented. Projects being installed will go above and beyond MN DOT standards during reconstruction of Highway 61, improving and installing practices identified through stormwater planning. The practices may involve but are not limited to fixing inlet bypasses, engineering of new stormwater systems, changing water pathways through stormwater pipes, and installing bioretention practices. Reduction of water in downtown City of Grand Marais will result in improved water quality and output reduction to Lake Superior. Floodwater reduction (water quantity) will total 0.5in for each 2-year, 24-hour rainfall event and reduce standing water in flood events, potentially decreasing total suspended solids in the system by 6%. An assessment of Nature Boy Creek/Village Ditch will be completed for the purpose of reconnecting the channel to the floodplain, stabilizing banks, and reducing sediment loading into Lake Superior. At minimum this project will result in an estimated 13,750 lbs. total suspended solids reduction per year to Lake Superior (approximately 6.7 tons) via sedimentation in the expanded floodplain. It is estimated that the project will reduce phosphorus loads by 82 lbs. per year from the drainage area to the improved reach along the Creek/Ditch. In addition, there would be a TSS/TP load reduction as a result of peak flow reduction in the lower portion of the system which could be substantial (potentially an order of magnitude higher than what we are reporting for the project itself.) As projects are completed, their impact will compound on both improving water quality and reducing water quantity being untreated before entering downtown Grand Marais and Lake Superior. Technical service staff credentials can be viewed at their respective offices.
Category	URBAN STORMWATER MANAGEMENT PRACTICES
Start Date	End Date
Has Rates and Hours?	No
Actual Results	12/31/2018 - Meetings were held between the SWCD and the City of Grand Marais to discuss stormwater projects with the funding. Budgets and projects were discussed and reviewed. Planning for village ditch assessment was starting to be developed.

Grant Activity - Coastal Zone Erosion Hazard Map

Description	The Lake Superior coastal hazard zone was identified as a Tier 1 priority area in the LSNW plan through the zonation process, which does not allow for fine detail at the parcel level for implementation. The current coastal hazard map is not in a usable form for decision making, prioritizing work, or public use. Additionally, the map has not been updated in over 15 years to account for changing precipitation patterns or water levels in Lake Superior. Allocated funding will help create an updated Coastal Zone Erosion Hazard Map, filling and identifying data gaps in sediment output to Lake Superior. Through partners, substantial work has been completed to build on as a foundation for the project. Completion includes identifying the remaining necessary data sets for an estimated 115 miles of the coastal zone of Lake Superior north watershed, creating a database, developing a map, and publishing the database and map. Information from the map and database will: guide decision making for infrastructure and development including but not limited to variance requests and a potential change in county ordinance to accommodate changing weather and lake levels; decrease in infrastructure vulnerability; and identification of prioritized projects along the coastal area to reduce erosion into Lake Superior. Funding also includes time for education and outreach to coastal land occupiers and realtors. Technical services staff credentials can be viewed at their respective offices.
Category	INVENTORY/MAPPING
Start Date	End Date
Has Rates and Hours?	No
Actual Results	12/31/2018- Meetings between stakeholders and partners took place. A project was defined, contractor hired to complete the project, and tentative workplan and schedule developed.

Grant Activity - Funding coordination, administration and fiscal management

Description	Lake SWCD and Cook SWCD staff will be responsible for coordinating funding accomplishments across the watershed. They will also be administrating and ensure funding compliance requirements including tracking of hours and other tasks identified in contracts and the workplan. Staff will also be administering fiscal management as required with funding contract and projects. Staff will provide general outreach and marketing about the benefits of comprehensive watershed-based funding to the area. Outreach will include 3 radio spots per year focused on comprehensive watershed management, 2 public information sessions annually, and print materials with a focused approach to outreach and sense of place development in the watershed. Credentials of staff can be viewed at their office of employment.		
Category	ADMINISTRATION/COORDINATION		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	12/31/2018 - Administration for projects and funding was completed.		

Grant Attachments

Document Name	Document Type	Description
2018 Watershed Based Funding	Grant Agreement	2018 Watershed Based Funding - Cook SWCD
2018 Watershed Based Funding executed	Grant Agreement	2018 Watershed Based Funding - Cook SWCD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/12/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/22/2019
Application	Workflow Generated	Workflow Generated - Application - 03/12/2018
FY18 LSNW Plan Imp Rpt#1	Grant	2018 - Lake Superior North Watershed Plan Implementation
LSNW Milestones	Grant	2018 - Lake Superior North Watershed Plan Implementation
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/30/2018