Grant All-Detail Report
Projects and Practices 2021

Grant Title - Little Comfort Lake Phosphorus Reduction Implementation
Grant ID - C21-6176
Organization - Comfort Lake-Forest Lake WD

Original Awarded Amount	**$354,600.00**	**Grant Execution Date**	**4/8/2021**
Required Match Amount	$88,650.00	**Original Grant End Date**	12/31/2023
Required Match %	25%	**Grant Day To Day Contact**	Mike Kinney
Current Awarded Amount	$354,600.00	**Current End Date**	12/31/2023

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	$354,600.00	$59,520.00	$295,080.00
Total Match Amount	$88,650.00	$36,988.31	$51,661.69
Total Other Funds	$0.00	$0.00	$0.00
Total	**$443,250.00**	**$96,508.31**	**$346,741.69**

**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
Administration/Coordination	Administration /Coordination	Local Fund	CLFLWD	$5,000.00	$907.14	12/31/2022	Y
Alum Treatment	Non-Structural Management Practices	Current State Grant	Little Comfort Lake Phosphorus Reduction Implementation	$96,000.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Alum Treatment	Non-Structural Management Practices	Local Fund	CLFLWD	$9,000.00			Y
Channel Improvements	Streambank or Shoreline Protection	Current State Grant	Little Comfort Lake Phosphorus Reduction Implementation	$35,800.00			N
Channel Improvements	Streambank or Shoreline Protection	Local Fund	CLFLWD	$8,950.00			Y
East Wetland Impoundment	Wetland Restoration/Creation	Current State Grant	Little Comfort Lake Phosphorus Reduction Implementation	$163,280.00			N
East Wetland Impoundment	Wetland Restoration/Creation	Local Fund	CLFLWD	$40,820.00			Y
Engineering	Technical/Engineering Assistance	Current State Grant	Little Comfort Lake Phosphorus Reduction Implementation	$59,520.00	$59,520.00	12/31/2022	N
Engineering	Technical/Engineering Assistance	Local Fund	CLFLWD	$14,880.00	$24,870.47	12/31/2022	Y
Project Development	Project Development	Local Fund	CLFLWD	$10,000.00	$11,210.70	12/31/2022	Y

Activity Details Summary

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

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Channel Improvements	PHOSPHORUS (EST.	206 LBS/YR	Little Comfort	Other	

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
	REDUCTION)				
Alum Treatment	PHOSPHORUS (EST. REDUCTION)	206 LBS/YR	little comfort	Other	
East Wetland Impoundment	PHOSPHORUS (EST. REDUCTION)	206 LBS/YR	Little Comfort Lake	Other	

Final Indicators Summary

Indicator Name	Total Value	Unit

Grant Activity

Grant Activity - Administration/Coordination		
Description	This Activity will be carried out by CLFLWD staff. Tasks include budgeting, reporting, grant management. District staff members involved in this task include • District Lead – Mike Kinney • Day-to-Day Project Coordinator – Blayne Eineichner • Grant Administration – Emily Heinz • Education & Outreach – Jessica Lindemyer	
Category	ADMINISTRATION/COORDINATION	
Start Date		**End Date**
Has Rates and Hours?	No	
Actual Results	12/31/21 Update: Grant management and reporting. 12/31/22 Update: Grant management and reporting.	

Grant Activity - Alum Treatment			
Description	Contractor costs for application of 14,100 gallons of liquid aluminate sulfate and 7,050 gallons of sodium aluminate buffer over 14.2 acres to achieve a target dose of 125 g Al/m2 This activity will be primarily carried out by a contractor selected through a request for quotes. EOR and CLFLWD staff will oversee the RFQ and alum application process. This project is estimated to reduce phosphorus loading to Little Comfort Lake by 56 pounds per year. • An alum treatment agreement with BWSR. This will be sent to BWSR for review, then sent again once signed. • The District will execute an alum staging and access agreement prior to expending grant funds on the alum treatment. The District will upload the executed agreement to eLINK attachments.		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date		**End Date**	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - Channel Improvements			
Description	This activity includes construction of a series of beaver dam analogs (or equivalent structure) along a portion of the School Lake outlet channel to Little Comfort Lake that is contributing sediment and phosphorus from unconsolidated stream bed materials. It will be primarily carried out by a contractor selected through either a request for quotes or public bidding process, depending on the final estimated cost and applicable bidding requirements. A competitive quote process will be triggered if the Engineer's estimate for construction exceeds $25,000, and a public bidding process will be triggered if the Engineer's estimate for construction exceeds $100,000. EOR and CLFLWD staff will oversee the bidding and construction process. This project is estimated to reduce phosphorus loading to Little Comfort Lake by 60 pounds per year.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		**End Date**	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - East Wetland Impoundment			
Description	This activity includes construction of a variable height weir to impound water in a large wetland complex that is currently ditched and discharging high phosphorus concentrations to Little Comfort Lake via the Heath Avenue outlet pipe. It will be carried out by a contractor selected through a public bidding process. EOR and CLFLWD staff will oversee the bidding and construction process. Native vegetation guidelines will be followed for all project revegetation. A thorough vegetation assessment is needed to determine potential impacts to existing quality vegetation and enhancements resulting from water level stabilization. This project is estimated to reduce phosphorus loading to Little Comfort Lake by 80 pounds per year.		
Category	WETLAND RESTORATION/CREATION		
Start Date		**End Date**	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - Engineering	
Description	This activity will be primarily carried out by Emmons & Olivier Resources (EOR) currently serving as the District Engineer. Tasks include permitting, modeling, design, contract documents, bidding, construction oversight, and development of an operations & maintenance plan. EOR staff dedicated to the project and their individual roles are identified below. • Project Manager – Jason Naber, CMWP • Design Engineer and Engineer of Record – Kyle Crawford, PE • District Engineer and Alum Treatment Oversight - Meghan Funke, PE, Ph.D. • Stream Restoration Design and Construction Oversight – Kevin Biehn, PLA • Wetland Ecology & Environmental Permitting Lead – Jason Naber, CMWP • Wetland Ecology & Environmental Permitting – Jimmy Marty, CMWP • Principal Oversight - Cecilio Olivier, PE • H&H & Water Quality Modeling Lead - Mike Talbot, EIT • Civil Technician, Field Services & Construction Observation – Multiple (see Work Plan Detail attached in eLINK for full Project Lead Qualifications) Project Design and Construction Standards: The most current edition of the Minnesota Department of Transportation "Standard Specifications for Construction" (currently 2018) and the City of Wyoming "Public Works / Engineering Standards" (currently 2020) shall govern.
Category	TECHNICAL/ENGINEERING ASSISTANCE
Start Date	**End Date**
Has Rates and Hours?	No
Actual Results	12/31/21 Update: Project feasibility, preliminary design, alum dosing work (sediment core collection/analysis/preliminary design). 12/31/22 Update: Continued project feasibility for gravel pit infiltration project; completed alum dosing work and prepared a memo summarizing recommendations

Grant Activity - Project Development	
Description	This Activity will be carried out by the following CLFLWD staff. Tasks include landowner outreach, survey and legal coordination, and public outreach. District legal counsel time needed to review contracts and landowner agreements is also included in this grant activity. A registered land surveyor will be contracted to assist with any easements and legal descriptions. Minor support roles may be needed by the District Engineer. Due to the high visibility of this project, the District will engage in extra public outreach surrounding this project including: • Pre-construction neighborhood meetings for each of the three project components (coordinated with the Comfort Lake Association) • Multiple direct mailers and "save the date" postcards for neighborhood meeting • Regular updates to District website and social media • Discussion of this project at the District Tour and State of the Watershed public meeting (to be held pending COVID-19 restrictions) District staff members involved in this task include • District Lead – Mike Kinney • Day-to-Day Project Coordinator – Blayne Eineichner • Grant Administration – Emily Heinz • Education & Outreach – Jessica Lindemyer
Category	PROJECT DEVELOPMENT
Start Date	**End Date**
Has Rates and Hours?	No
Actual Results	12/31/21 Update: Worked on outreach to multiple surrounding landowners for wetland impoundment, channel improvements, and alum treatment access to Little Comfort Lake itself – outreach letters, virtual and in-person (socially distanced) meetings, recorded virtual meeting presentation and uploaded to YouTube. Work with legal on landowner agreements/easements. Additional project development work such as preliminary permitting communications, wetland delineation, utilities locates , and coordination of geotechnical exploration. 12/31/22 Update: Outreach to gravel pit landowner and project feasibility; project feasibility for channel improvements; coordinate with EOR for alum treatment feasibility and review recommendations memo

Grant Attachments

Document Name	Document Type	Description
2021 Competitive Grant	Grant Agreement	2021 Competitive Grant - Comfort Lake-Forest Lake WD
2021 Competitive Grant EXECUTED	Grant Agreement	2021 Competitive Grant - Comfort Lake-Forest Lake WD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/22/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/21/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/17/2023
Application	Workflow Generated	Workflow Generated - Application - 08/17/2020
C21-6176 Executed Alum Assurance Agreement	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Channel Improvements Maps - Full	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Channel Maps-East Wetland	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Detailed Work Plan Text	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Detailed Work Plan Text	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Detailed Work Plan Text	Grant	Little Comfort Lake Phosphorus Reduction Implementation
East Wetland Map - full size	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Example Easement Heath Ave-School Channel	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Landowner Letter of Support	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Project Screening	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Sediment Internal Loading Study	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Water Quality Investigation Report	Grant	Little Comfort Lake Phosphorus Reduction Implementation
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/25/2021
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 04/06/2021
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/17/2020
grantmap_28974_2020-08-17_04-18-40-PM.jpg	Grant	Little Comfort Lake Phosphorus Reduction Implementation