

Grant All-Detail Report Projects and Practices 2020

Grant Title - Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Filter **Grant ID -** C20-7191

Organization - Comfort Lake-Forest Lake WD

Original Awarded Amount	\$747,400.00	Grant Execution Date	5/5/2020
Required Match Amount	\$186,850.00	Original Grant End Date	12/31/2022
Required Match %	25%	Grant Day To Day Contact	Mike Kinney
Current Awarded Amount	\$747,400.00	Current End Date	12/31/2023

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$747,400.00	\$626,990.32	\$120,409.68
Total Match Amount	\$378,815.00	\$249,578.09	\$129,236.91
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$1,126,215.00	\$876,568.41	\$249,646.59

^{*}Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

Budget Details

						Last	
	Activity					Transaction	Matching
Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Date	Fund
Engineering and Construction Administration	Technical/Engi neering Assistance	Current State Grant	Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Fi	\$96,000.00	\$91,369.49	10/31/2022	N
Engineering and Construction Administration	Technical/Engi neering Assistance	Local Fund	CLFLWD	\$33,850.00	\$32,217.27	10/31/2022	Υ

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	Activity					Last Transaction	Matching
Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Date	Fund
Grant Management and Reporting	Administration /Coordination	Local Fund	CLFLWD	\$3,000.00	\$1,331.29	11/30/2022	Υ
IESF System Construction	Urban Stormwater Management Practices	Current State Grant	Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Fi	\$651,400.00	\$535,620.8 3	12/5/2022	N
IESF System Construction	Urban Stormwater Management Practices	Federal Funds	Section 319 Small Watershed Focus	\$191,965.00	\$191,965.0 0	12/5/2022	Y
IESF System Construction	Urban Stormwater Management Practices	Local Fund	CLFLWD	\$100,000.00			Y
Project Development	Project Development	Local Fund	CLFLWD	\$50,000.00	\$24,064.53	6/30/2022	Υ

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
811M - Filtration Practices	1	1	0.5 AC	0.5 AC

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
IESF System	PHOSPHORUS (EST.	85 LBS/YR	Forest Lake	Other	Continuous flow and
Construction	REDUCTION)				phosphorus load inputs based
					on actual monitoring data

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Final Indicators Summary

Indicator Name	Total Value	Unit	
PHOSPHORUS (EST. REDUCTION)	87.00	LBS/YR	

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Grant Activity

Grant Activity - Engineering and	Construction Administration
Description	Engineering costs for intake and pump, sediment pretreatment, and 0.5-acre iron-enhanced sand filter bed.
	Emmons & Olivier Resources (EOR), currently serving as the CLFLWD Engineer, will lead engineering and construction administration for this project. Tasks include permitting, hydrologic modeling, design, contract documents, bidding, and construction oversight, and development of an operations & maintenance manual for District staff. A registered land surveyor will be contracted to assist with easements and legal descriptions. EOR staff dedicated to the project and their individual roles are identified below. • District Engineer, Limnologist – Meghan Funke, Ph.D., PE • Quality Control Engineer – Greg Graske, PE • Principal Oversight – Cecilio Olivier, PE • Primary Design Engineer – Kyle Crawford, PE • Supporting Design Engineer – Derek Lash, PE, CPESC • Landscape Designer – Kevin Biehn, PLA • Design Support – Britta Hansen, PLA • Civil Technician & Field Services – Brian Rucker, Dan Mossing, PE • H&H Modeling Support –Ryan Fleming, PE; Trevor Rundhaug, EIT • Hydrogeologist – Stu Grubb, PG • Wetland Permitting Lead – Jason Naber, WDC • Wetland Permitting Support – Jimmy Marty, WPC Project Design and Construction Standards: The most current edition of the Minnesota Department of Transportation "Standard Specifications for Construction" (currently 2018) and of the City Engineers Association of Minnesota "Construction Standards Specifications" and the City of Forest Lake "Public Works / Engineering Standards" (both currently 2013) shall
	govern.
	See detailed work plan text in eLINK attachments for further description.
Category	TECHNICAL/ENGINEERING ASSISTANCE
Start Date	End Date
Has Rates and Hours?	No
Actual Results	12/31/20 Update: Completed concept designs

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12/31/21 Update: Project design, permitting. Wetland delineation completed, working toward completing feasibility study.
6/30/22 Update: Completed project design and bidding. CLFLWD Board moved to award construction contract to Dresel Contracting on 7/14/22.
12/5/22 Update: Completed contracting and construction oversight.

Grant Activity - Grant Management and Reporting					
Description	This Activity is primarily carried out by CLFLWD staff. Tasks include budgeting, reporting, and grant management. Minor support may be needed by the District Engineer. District legal counsel time needed to review contracts and landowner agreements are also included in this grant activity.				
Category	ADMINISTRATION/COORDINATION				
Start Date	End Date				
Has Rates and Hours?	Yes				
Actual Results	12/31/21 Update: Grant reporting				
	12/31/22 Update: Grant reporting				

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Grant Activity - IESF System Construction						
Description	Construction costs for intake and pump, sediment pretreatment, and 0.5-acre iron-enhanced sand filter bed.					
	This Activity will be primarily carried out by a contractor selected through a public bidding process. EOR and CLFLWD staff will oversee the bidding and construction process.					
	See detailed work plan text in eLINK attachments for further description.					
	Based on load monitoring data collected at the project site in 2016 and 2018, and IESF reduction calculations, the proposed					
	project is expected to achieve an 85 lb/yr reduce meet the District goal of a mean phosphorus co		ductions needed for Forest Lake to			
Category	URBAN STORMWATER MANAGEMENT PRACTIC	• •				
Start Date	14-Oct-22	End Date				
Has Rates and Hours?	No					
Actual Results	12/5/22 Update: Project construction occurred in early November 2022, with the main portion of construction, such as excavation and shaping, being completed by 11/18/22. Remaining work includes pipe installation and restoration work, which will occur in spring 2023. Reported financials do not include ineligible tree and berm work.					

	Activity Action	- Iron Enh	anced Sand Filter System				
	Practice		811M - Filtration Practices	Count of Activities		1	
	Description		The project pumps water from WJD-6 through a pre-treatment cell, and then into the iron-enhanced sand filter				
			beds. Water would filter through the	iron-sand	mix before performed subdr	ains w	ould route the clean water back
			into the WJD-6 corridor.				
			Installed date will be completed once project is certified complete				
	Proposed Size	/ Units	0.50 AC	Lifespan		25 Years	
	Actual Size/Ur	nits	0.50 AC	Installed Date			
	Mapped Activ	ities	1 Point(s)	Technical Assistance Provider			Private Consultant
Final Indicator for I	ron Enhanced S	and Filter S	System				
Indicator Name PHOSPHO		PHOSPHO	RUS (EST. REDUCTION)		Value	87	
Indicator Subcategory/Units WATER P		WATER PO	OLLUTION (REDUCTION ESTIMATES) LBS/YR Calculation Tool Other		r		
Waterbody Forest La			e				

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Grant Activity - Project Development			
Description	This Activity is primarily carried out by District staff and EOR. Tasks include project startup, general project management, landowner coordination and agreement(s), and public outreach. Support will be provided by Legal Counsel for project agreements. The District will employ a variety of measures to communicate the project need, benefits and long-term impacts to the local community. Outreach activities will go beyond standard newsletters/signs/press releases to include a preconstruction neighborhood meeting, direct mailers/postcards to nearby residents, social media and website posts, and communication through existing methods such as the State of the Watershed public meeting, District Tour, Annual Report and annual Progress Report. The District will assume responsibility for lifetime (25-year) maintenance of the project. See detailed work plan text in eLINK attachments for further description.		
Category	PROJECT DEVELOPMENT		
Start Date	End Date		
Has Rates and Hours?	Yes		
Actual Results	12/31/20 Update: Continued landowner discussions and completed UAV fly-over of ditch and project area. 12/31/21 Update: Continued landowner discussions. Easement executed on 1/21/22. 12/5/22 Update: Continued to engage stakeholders throughout the project and perform public outreach. Assisted with		
	project bidding/contracting/construction oversight.		

Grant Attachments

Document Name	Document Type	Description
2020 Competitive Grant	Grant Agreement	2020 Competitive Grant - Comfort Lake-Forest Lake WD
2020 Competitive Grant EXECUTED	Grant Agreement	2020 Competitive Grant - Comfort Lake-Forest Lake WD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/20/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/12/2023
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/12/2023
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 11/30/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/21/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/19/2022

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Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/28/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/12/2023
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/30/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/24/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/13/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/30/2021
Application	Workflow Generated	Workflow Generated - Application - 09/09/2019
Application Image_WJD6	Grant	Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Filter
C20-7191 Reconciliation A Checklist	Journal	Journal Dated - 01/12/2023
C20-7191_Extension Request	Journal	Journal Dated - 08/12/2022
Draft Landowner Easement	Grant	Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Filter
Expenditures Report Attached for Reconciliation	Grant	Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Filter
Financial Report 40%	Grant	Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Filter
Financial Report 40%	Grant	Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Filter
Landowner Easement Executed - Herring	Grant	Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Filter
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/22/2020
Work Plan Detail	Grant	Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Filter
grantmap_25657_2019-09-06_03-46-17-PM.jpg	Grant	Washington Judicial Ditch 6 Headwaters Iron-Enhanced Sand Filter

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