



Grant All-Detail Report Projects and Practices 2021

Grant Title - Pleasure Creek South BIESF

Grant ID - C21-8494

Organization - Coon Creek WD

Original Awarded Amount	\$330,000.00	Grant Execution Date	3/24/2021
Required Match Amount	\$82,500.00	Original Grant End Date	12/31/2023
Required Match %	25%	Grant Day To Day Contact	Justine Dauphinais
Current Awarded Amount	\$330,000.00	Current End Date	12/31/2023

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$330,000.00	\$257,407.91	\$72,592.09
Total Match Amount	\$170,000.00	\$153,420.85	\$16,579.15
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$500,000.00	\$410,828.76	\$89,171.24

**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
Construction	Urban Stormwater Management Practices	Current State Grant	Pleasure Creek South BIESF	\$330,000.00	\$257,407.91	4/25/2022	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Construction	Urban Stormwater Management Practices	Local Fund	CCWD Levy	\$110,000.00	\$53,371.01	12/30/2022	Y
Project Coordination & Administration	Administration /Coordination	Local Fund	CCWD levy	\$7,500.00	\$22,239.48	12/31/2022	Y
Public Engagement	Education/Information	Local Fund	CCWD Levy	\$2,500.00	\$2,065.90	12/31/2022	Y
Technical & Engineering Assistance	Technical/Engineering Assistance	Local Fund	CCWD Levy	\$50,000.00	\$75,744.46	9/30/2022	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
100M - Presentations	1		1 COUNT	1 COUNT
712M - Bioretention Basin	1		7000 SQUARE FEET	SQUARE FEET
100M - Presentations	1		1 COUNT	COUNT

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Construction	PATHOGENS (E. COLI)	270200000000 CFU	Pleasure Creek	Literature Value	Based on 80% removal efficiency (MN stormwater manual)
Construction	PHOSPHORUS (EST. REDUCTION)	19.2 LBS/YR	Pleasure Creek	Literature Value	Based on 77% removal efficiency (MN stormwater manual)

Final Indicators Summary

Indicator Name	Total Value	Unit
PHOSPHORUS (EST. REDUCTION)	19.20	LBS/YR
PATHOGENS (E. COLI)	270,200,000,000.00	CFU

Grant Activity

Grant Activity - Construction	
Description	<p>This activity includes construction site preparation & maintenance, mobilization of equipment, installation of a filter BMP and components, demobilization of equipment, and site restoration. All work will be completed by a qualified contractor selected using a competitive bidding process with oversight by the Project Engineer and CCWD staff. Access, staging, & construction will occur on publicly-owned land. Revegetation practices will adhere to BWSR's Native Vegetation Establishment guidelines.</p> <p>One ~7,000 sq ft biochar/iron-enhanced sand filter will be installed along the existing network of rate control ponds operated by the City of Coon Rapids. Water will be diverted from the ponds and filtered to remove 19.2 lbs TP /yr and 270 billion organisms of E. coli/ year.</p> <p>A preliminary concept design by Wenck (now Stantec) is attached.</p> <p>CCWD will contribute \$110,000 towards construction match.</p> <p>Key Milestones:</p> <p>2022:</p> <ul style="list-style-type: none"> -Construction contractor awarded by May 31 <p>2023:</p> <ul style="list-style-type: none"> -Filter on-line by June 30 -Vegetation establishment by Sept 30 -Final completion by Oct 31
Category	URBAN STORMWATER MANAGEMENT PRACTICES
Start Date	8-Nov-21
End Date	
Has Rates and Hours?	No
Actual Results	<p>The project was awarded to JACON LLC on 11/8/21 via a competitive bidding process.</p> <p>Construction commenced on February 28, 2022, roughly 6 months ahead of schedule. By April 30, 2022 construction was 66%</p>

complete including all major earthwork. Construction activities have mainly been on hold since May 2022 due to delays from the manufacturer of the custom pump. Electrical service hook-up to the pump vault and partial site restoration did occur between May and December 2022.

The remaining construction work is scheduled to commence in spring 2023 which should allow for final completion by fall 2023 as originally planned.

Approximately \$100,000 in planned construction costs remain which will be split between the remaining grant funds and CCWD cash match.

Activity Action - Biochar- & Iron-enhanced sand filter			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	biochar and iron-enhanced sand filtration basin		
Proposed Size / Units	7,000.00 SQUARE FEET	Lifespan	25 Years
Actual Size/Units	SQUARE FEET	Installed Date	
Mapped Activities	No	Technical Assistance Provider	Private Consultant

Final Indicator for Biochar- & Iron-enhanced sand filter			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	19.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Literature Value
Waterbody	Pleasure Cr		

Final Indicator for Biochar- & Iron-enhanced sand filter			
Indicator Name	PATHOGENS (E. COLI)	Value	270200000000
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) CFU	Calculation Tool	Literature Value
Waterbody	Pleasure Cr		

Grant Activity - Project Coordination & Administration

Description	<p>This activity includes regular coordination and progress meetings with project partners (City of Coon Rapids Staff & Engineer), project and construction management (securing permits, bid process, contracts, oversight), financial tracking, and all required grant reporting in eLink.</p> <p>This activity will be carried out by CCWD staff as in-kind match. Specifically, Jon Janke, CCWD Operations and Maintenance Coordinator, will be responsible for project management and construction oversight in conjunction with the Project Engineer (See Technical/Engineering Assistance Activity). Justine Dauphinais, CCWD Water Quality Coordinator, will be responsible for financial tracking and grant reporting with administrative oversight by Julie Peterson, CCWD Accountant.</p> <p>CCWD staff will work immediately to acquire a drainage permit from MnDOT and execute a Joint Powers Agreement with the City of Coon Rapids that provides proper assurances for access, construction, and long-term operations & maintenance. This agreement will be submitted to BWSR for review and approval prior to expending any grant funds.</p> <p>Key Milestones:</p> <p>2021:</p> <ul style="list-style-type: none">-JPA executed by July 31- At least 2 project coordination meetings held <p>2022:</p> <ul style="list-style-type: none">-Submit grant progress report in eLINK by Feb 1-Complete final project design by March 30-Award construction contractor by May 31 <p>2023:</p> <ul style="list-style-type: none">-Submit grant progress report in eLINK by Feb 1-Sign off on final completion of constructed project by Oct 31-Submit final report in eLINK by Dec 31		
Category	ADMINISTRATION/COORDINATION		
Start Date	25-Mar-21	End Date	

Has Rates and Hours?	Yes
Actual Results	<p>Project coordination and grant administration is ongoing. A kick off meeting attended by all project partners was held on 4/13/21 and regular communication continues. A JPA to formalize roles and responsibilities between CCWD and the City of Coon Rapids was executed on 6/15/21 (see attachment). A progress check in meeting with BWSR Board Conservationist occurred on 6/16/21. Permits were granted from MNDOT, MetCouncil, and Great River Energy for work within various utility easements. The project was publicly bid and awarded to the lowest competent bidder, JACON LLC, in November 2021.</p> <p>Construction commenced in Feb 2022; regular oversight including daily site visits during active construction continues to be provided by CCWD staff and the project engineer.</p> <p>All required financial tracking and reporting continues to be completed by CCWD staff. An interim progress report with payment request was submitted for the period from 1/1/22-4/30/22 given that the first 50% of disbursed grant funds were expended.</p> <p>Note: Staff time dedicated to this project, particularly construction oversight has greatly exceeded forecasted amounts. This is due in part because of site complexity (navigating utility/easement conflicts) and due to internal staff turnover with increased onboarding needs. Because this activity is fully funded by in-kind match vs grant funds, CCWD will continue to report all realized match above-and-beyond projections.</p>

Grant Activity - Public Engagement

Description	<p>Efforts will be made to engage the public throughout the entire project. Local stakeholders will be invited to participate in a public open house (likely virtual format). Project updates will be published on a dedicated project webpage, on social media, and an article will be submitted for inclusion in the City of Coon Rapids' newsletter. Additionally, to engage water resource professionals, the results of this project will be presented at the MN Water Resources Conference.</p> <p>This activity will be carried out by CCWD staff as in-kind match. Specifically, Dawn Doering, Information & Education Coordinator, will oversee all public engagement efforts with assistance from Britta Dornfeld, Outreach Assistant. Justine Dauphinais, Water Quality Coordinator, will present the results of the project at the MN WRC.</p> <p>Key Milestones:</p> <p>2021:</p> <ul style="list-style-type: none"> -Create project webpage by Aug 31 <p>2022:</p> <ul style="list-style-type: none"> -Host public open house by Feb 28 -Update project webpage by April 30 <p>2023:</p> <ul style="list-style-type: none"> -Update project webpage by April 30 -Submit article for inclusion in the City newsletter by June 30 -Present project and preliminary monitoring results at UMN Water Resources Conference by December 31 	
Category	EDUCATION/INFORMATION	
Start Date	14-Apr-21	End Date
Has Rates and Hours?	Yes	
Actual Results	<p>Public engagement activities are ongoing. A dedicated project webpage (https://www.cooncreekwd.org/pcsfilter) was created and published on 8/19/21 and continues to be updated regularly. A virtual public informational meeting was held on 9/9/21 and a recording was posted on the project webpage. The All Details report for 2021 was posted to the project webpage on 2/23/22.</p>	

A message center was deployed on-site ahead of construction and continues to be updated with progress reports. Signage with the clean water legacy logo was purchased to be installed on-site post construction.

A project update was also posted to District social media channels.

A newsletter article was discussed with City of Coon Rapids staff; it was decided to wait until closer to project completion to publish a project update in the newsletter.

Activity Action - Public Open House			
Practice	100M - Presentations	Count of Activities	1
Description	Public Open House for project kick off and feedback		
Proposed Size / Units	1.00 COUNT	Lifespan	Unknown
Actual Size/Units	1.00 COUNT	Installed Date	9-Sep-21
Mapped Activities	No	Technical Assistance Provider	Other

Activity Action - UMN Water Resource Conference			
Practice	100M - Presentations	Count of Activities	1
Description	Present preliminary findings at UMN WRC		
Proposed Size / Units	1.00 COUNT	Lifespan	Unknown
Actual Size/Units	COUNT	Installed Date	
Mapped Activities	No	Technical Assistance Provider	Other

Grant Activity - Technical & Engineering Assistance

Description	<p>Stantec (formerly Wenck) will provide all technical and engineering assistance under the direction of CCWD staff (Jon Janke, Operations & Maintenance Coordinator).</p> <p>The project engineer will develop and complete design plans and specifications including any surveying, geotechnical analyses, and permitting, implement the competitive bidding process, and provide construction oversight and final sign off on the constructed project.</p> <p>Ed Matthiesen (P.E) will be the lead Engineer and will adhere to recognized design standards for the constructed practice. This activity will be funded by local CCWD match.</p> <p>Key Milestones:</p> <p>2022:</p> <ul style="list-style-type: none">-Finalized design plans and specifications completed by Mar 30-Project advertised for competitive bid by May 15 <p>2023:</p> <ul style="list-style-type: none">-Sign off on final completion by Oct 31		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Apr-21	End Date	
Has Rates and Hours?	No		
Actual Results	<p>The project engineer, Ed Mattheisen (P.E) of Stantec, developed design plans and specifications in accordance with accepted standards for filtration BMPs in the MN Stormwater Manual. Minimal geotechnical work was required (soil borings).</p> <p>A final project manual was delivered in October 2021 for the public bidding process which closed on 10/29/21. The project was awarded to the lowest competent bidder, JACON LLC, on 11/8/21.</p> <p>Utility conflicts with MCES sanitary sewer infrastructure necessitated design deviations from the original concept design and resulted in engineering cost overruns. CCWD will continue to cover all engineering costs using local funds as match.</p>		

Construction commenced in February 2022 and regular construction oversight continues to be provided by Stantec staff during active construction.

Sign off on substantial completion is was anticipated for Fall 2022, a year ahead of schedule, but pump manufacturing delays have pushed the timeline back to the original schedule with completion anticipated in Fall 2023.

Grant Attachments

Document Name	Document Type	Description
2021 Competitive Grant	Grant Agreement	2021 Competitive Grant - Coon Creek WD
2021 Competitive Grant EXECUTED	Grant Agreement	2021 Competitive Grant - Coon Creek WD
2021 cash match documentation	Progress	Progress Dated - 01/07/2022
2021 in kind staff time match	Progress	Progress Dated - 01/07/2022
2021 signed financial report	Progress	Progress Dated - 01/07/2022
2022 Yearend Financial Report	Progress	Progress Dated - 12/06/2022
2022 financial report thru 4-30-22	Progress	Progress Dated - 06/14/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/07/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/30/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/30/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/14/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/11/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/06/2022
Application	Workflow Generated	Workflow Generated - Application - 08/17/2020
C21-8494 Reconciliation Checklist	Journal	Journal Dated - 07/28/2022
Cash Match Documentation 1.1-4.30.22	Progress	Progress Dated - 06/14/2022
Concept Design and OPC	Grant	Pleasure Creek South BIESF
DRAFT JPA with City of Coon Rapids	Grant	Pleasure Creek South BIESF
Documentation of Match 5.1.22-12.31.22	Progress	Progress Dated - 12/06/2022
Financial Report thru 12.31.22	Grant	Pleasure Creek South BIESF
Grant Eligible Documentation 1.1-4.30.22	Progress	Progress Dated - 06/14/2022

Document Name	Document Type	Description
In Kind Staff Match Documentation 1.1-4.30.22	Progress	Progress Dated - 06/14/2022
JPA executed 6-15-21	Grant	Pleasure Creek South BIESF
Master Budget Tracking Spreadsheet 12.31..22	Progress	Progress Dated - 12/06/2022
Master Budget Tracking Spreadsheet 4.30.22	Progress	Progress Dated - 06/14/2022
Master budget tracking spreadsheet	Progress	Progress Dated - 01/07/2022
PCS BIESF Application Image	Grant	Pleasure Creek South BIESF
PCS BIESF Application Image	Grant	Pleasure Creek South BIESF
Staff billing rates spreadsheet	Progress	Progress Dated - 01/07/2022
Updated Billing Rates for 2022	Progress	Progress Dated - 06/14/2022
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/17/2020
grantmap_28552_2020-08-14_03-59-27-PM.jpg	Grant	Pleasure Creek South BIESF