



Grant Progress Report

Projects and Practices 2022

Grant Title: Epiphany Creek BIESF

Grant ID: C22-2120

Grantee: Coon Creek WD

Fiscal Agent: Coon Creek WD

Grant Day-to-Day Contact: Jon Janke

Grant Award (\$): \$345,000.00

Required Match (%): 25

Required Match (\$): \$86,250.00

Grant Execution Date: 03/18/2022

Grant End Date: 12/31/2024

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$345,000.00	\$345,000.00	\$0.00
Match Funds	\$105,000.00	\$283,161.48	(\$178,161.48)
Other Funds	\$0.00	\$0.00	\$0.00
Total	\$450,000.00	\$628,161.48	(\$178,161.48)

*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	Category	Source Type	Source Description	Budgeted	Spent	Balance Remaining	Match Fund?
Project Coordination & Administration	Administration/Coordination	Local Fund	CCWD Levy	\$13,500.00	\$19,106.67	(\$5,606.67)	Y
Public Engagement	Education/Information	Local Fund	CCWD Levy	\$4,000.00	\$4,225.89	(\$225.89)	Y
Technical & Engineering Assistance	Technical/Engineering Assistance	Local Fund	CCWD Levy	\$52,500.00	\$59,225.02	(\$6,725.02)	Y

<i>Activity Name</i>	<i>Category</i>	<i>Source Type</i>	<i>Source Description</i>	<i>Budgeted</i>	<i>Spent</i>	<i>Balance Remaining</i>	<i>Match Fund?</i>
Construction	Urban Stormwater Management Practices	Local Fund	CCWD Levy	\$35,000.00	\$200,603.90	(\$165,603.90)	Y
Construction	Urban Stormwater Management Practices	Current State Grant	Epiphany Creek BIESF	\$345,000.00	\$345,000.00	\$0.00	N

Indicator Summary

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	23	Lbs/Yr
Water Pollution (Reduction Estimates)	Pathogens (E. Coli)	404000000000	Cfu

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Pathogens (E. Coli)	484800000000	Cfu
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	27.6	Lbs/Yr

Grant Activities

Activity Name: Construction

Activity Category: Urban Stormwater Management Practices

Staff time?: No

Description: This activity includes construction site preparation & maintenance, mobilization of equipment, installation of the filter 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 from Stantec and CCWD staff.

One ~10,000 sq ft biochar/iron-enhanced sand filter will be installed in Robinson Park adjacent to Epiphany Creek, a major tributary to Coon Creek. The City of Coon Rapids is the sole property owner of Robinson Park and all access, staging, and construction will occur on land owned by the City of Coon Rapids.

Water will be diverted from the stream and filtered to remove 23 lbs TP/yr and 404 billion organisms E. coli/yr.

CCWD will contribute at least \$35,000 towards construction as local cash match.

Key Milestones:

2023:

-Construction contractor awarded by Sept 30

2024:

-Filter on-line by July 31

-Final completion by Oct 31

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Epiphany Creek BIESF	\$345,000.00	\$345,000.00	\$0.00	02/03/2023	N
Local Fund	CCWD Levy	\$35,000.00	\$200,603.90	(\$165,603.90)	08/18/2023	Y

Actual Results

The project was advertised for public bids in October 2022. A contractor, North Pine Aggregate, was selected as the lowest responsible bidder and was awarded the project on 11/28/22. Site staking occurred in December for work to begin in January 2023, a full year ahead of schedule.

Construction on the biochar- and iron-enhanced sand filter began in January 2023 with final completion including site restoration/vegetation establishment August 2023, nearly a full year ahead of schedule. The size of the filter bed was increased from 10,000 to 12,000 sq feet to maximize available space, which resulted in a 20% increase in pollutant reductions compared to initial estimates (local match was increased to cover the costs associated with increasing the size of BMP).

Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Phosphorus (Est. Reduction)	27.6	Lbs/Yr
Pathogens (E. Coli)	484800000000	Cfu

Activity Action Name:	BIESF	Activity Count: 1
Practice Type:	712M - Bioretention Basin	Size/Units: 12000 - Cfu/Yr
TA Provider/JAA:	Private Consultant	Lifespan: 25 Years
Practice Description:	biochar- and iron-enhanced sand filter	Install Date: 08/21/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	27.6	Simple Method (MPCA)	Coon Creek
Pathogens (E. Coli)	Cfu	484800000000	Simple Method (MPCA)	Coon Creek

Activity Name: Project Coordination & Administration

Activity Category: Administration/Coordination

Staff time?: Yes

Description: This activity includes project coordination meetings with partners, construction management (securing permits, bid process, oversight), financial tracking, and all required grant reporting.

This activity will be carried out by CCWD staff as in-kind match. Specifically, Jon Janke, CCWD Operations/Maintenance Coord, 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 Coord, will be responsible for financial tracking and grant reporting with administrative oversight by CCWD Accountant.

CCWD staff will work immediately to execute a Joint Powers Agreement with the City of Coon Rapids that provides proper assurances for access, construction, and long-term operations & maintenance for the effective life of the practice, at least 25 years. This agreement will be submitted to BWSR for review and approval prior to expending any grant funds. An example JPA is attached.

Key Milestones:

2022:

- JPA executed by Sept 30
- At least 2 project coordination meetings held

2023:

- Submit grant progress report in eLink by Feb 1
- Complete final project design by June 30
- Award construction contractor by Sept 30

2024:

- 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

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Local Fund	CCWD Levy	\$13,500.00	\$19,106.67	(\$5,606.67)	08/24/2023	Y

Actual Results

Project coordination and grant administration is ongoing. A kick-off meeting attended by all project partners (CCWD, City, Stantec) was held on 4/22/22 and check-in meetings were held on 9/30/22 and 10/21/22. Regular communication continues as needed. A JPA to formalize roles and responsibilities between CCWD and the City of Coon Rapids was executed on 6/21/22 (see attachment).

The project was publicly bid in October 2022 and awarded to the lowest competent bidder, North Pine Aggregate, on November 28, 2022. Construction is scheduled to commence in January 2023 with oversight to be provided by CCWD staff and the project engineer.

All required financial tracking and reporting was completed by CCWD staff.

Construction commenced in January 2023 with daily construction oversight provided by CCWD staff and the project engineer during the period of active construction. Periodic site visits to track site restoration progress and evaluate BMP function continued through summer. Regular communication with the City of Coon Rapids and adjacent residents continued until final completion in August 2023.

Project invoices were paid monthly, with all expenditures documented in detailed. All required financial tracking and reporting was completed in eLink by CCWD staff.

Activity Name: Public Engagement

Activity Category: Education/Information

Staff time?: Yes

Description: Efforts will be made to engage the public throughout the entire project. Local stakeholders will be invited to participate in a public open house to discuss local water quality impairments, the proposed BMP, and to gather feedback. Project updates will be published in the City of Coon Rapids' newsletter and on a dedicated project webpage. An interpretive sign will be installed on-site. Additionally, to engage water resource professionals, the results of this project will be presented at the annual MN Water Resources Conference .

This activity will be carried out by CCWD staff as in-kind match. Specifically, Dawn Doering, Public Relations Coordinator, will oversee all public engagement efforts. Justine Dauphinais, Water Quality Coordinator, will present the results of the project at the MN WRC. An interpretive sign will be fabricated and installed by a qualified contractor (up to \$1000 of local cash match).

Key Milestones:

2022:

-Create project webpage by Aug 31

2023:

-Update project webpage by Mar 31

-Host public open house by May 31

2024:

-Update project webpage by Mar 31

-Submit article for inclusion in City Newsletter by June 30

-Install interpretive sign on-site by Oct 31

-Present project at UMN WRC by Nov 30

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Local Fund	CCWD Levy	\$4,000.00	\$4,225.89	(\$225.89)	08/24/2023	Y

Actual Results

Public engagement activities are ongoing. A dedicated project webpage (<https://www.cooncreekwd.org/ecfilter>) was created and published on 5/3/22. A public informational meeting was held on 5/24/22 and a recording is posted on the project webpage.

An on-site message center sign was installed on 5/9/22 and is updated as needed with project developments.

An article introducing the project was published in the Hometown Source local paper in July 2023.

An article was drafted for publication in the winter edition of the Coon Rapids Connection City Newsletter.

The dedicated project webpage was updated regularly and will continue to be hosted on the District website, including adding the final grant report. A notice of project completion was also submitted for publication in the Coon Rapids Connection Fall Newsletter. An interpretive sign was designed and ordered and will be installed onsite once it is received in September 2023 (see attached image file). A sign with CCWD and Legacy logos was installed onsite. The project will also be presented at the 2023 UMN Water Resources conference in October 2023 (an abstract was drafted in April 2023 and approved in July 2023).

Activity Action Name:	Public Meeting	Activity Count: 1
Practice Type:	100M - Presentations	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	Other	Lifespan: Unknown
Practice Description:	Virtual or in-person public open house to engage and seek feedback from local residents and park users.	Install Date: 05/24/2022
		Mapped: Yes

Activity Action Name:	MN WRC presentation	Activity Count: 1
Practice Type:	100M - Presentations	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	Other	Lifespan: Unknown
Practice Description:	Results of this project will be presented at the annual MN Water Resources Conference.	Install Date: 10/17/2023
	Abstract was accepted; presentation scheduled for 10/17/23 at 1:35pm	
		Mapped: Yes

Activity Name: Technical & Engineering Assistance

Activity Category: Technical/Engineering Assistance

Staff time?: No

Description: The District Engineer, Stantec, will provide technical and engineering assistance throughout the Project under the direction of CCWD staff. The Engineer will develop and complete design plans and specifications including any surveying and soil analysis, implement the bidding process, and provide construction oversight (supervision and inspections).

Ed Matthiesen, P. E., will be the lead Engineer and will adhere to recognized design standards for all constructed practices (MN Stormwater Manual). Ed has designed many similar regional filtration BMPs including 3 within CCWD since 2018. This activity will be funded by CCWD as match.

Key Milestones:

2023:

- Finalized design plans and specs by June 30
- Project advertised for competitive bid by Aug 31

2024:

- sign off on final completion by Oct 31

Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Local Fund	CCWD Levy	\$52,500.00	\$59,225.02	(\$6,725.02)	07/28/2023	Y
Actual Results						
<p>The project engineer, Eileen Weigel (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 (soil borings) was conducted in July 2022.</p> <p>A final project manual was delivered in September 2022 for the public bidding process which occurred in October 2022. The project was awarded to the lowest competent bidder, North Pine Aggregate, on 11/28/22.</p> <p>Licensed Stantec engineers provided regular construction oversight during the active construction period, reviewed and approved all submittals, and signed off on project completion on 8/21/23, a full year ahead of schedule (see attached certificate of final completion form).</p>						