



Grant All-Detail Report Projects and Practices 2019

Grant Title - Middle Sand Creek Corridor Restoration

Grant ID - C19-2516

Organization - Coon Creek WD

Original Awarded Amount	\$382,772.00	Grant Execution Date	3/20/2019
Required Match Amount	\$95,693.00	Original Grant End Date	12/31/2021
Required Match %	25%	Grant Day To Day Contact	Justine Dauphinais
Current Awarded Amount	\$382,772.00	Current End Date	12/31/2021

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$382,772.00	\$282,487.84	\$100,284.16
Total Match Amount	\$291,000.00	\$330,945.48	\$-39,945.48
Total Other Funds	\$291,000.00	\$288,287.75	\$2,712.25
Total	\$964,772.00	\$901,721.07	\$63,050.93

*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 & Reporting	Administration /Coordination	Current State Grant	Middle Sand Creek Corridor Restoration	\$31,028.00	\$36,603.86	12/31/2020	N
Administration & Reporting	Administration /Coordination	Local Fund	CCWD Unbudgeted Match	\$0.00	\$1,668.00	4/1/2020	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Construction	Streambank or Shoreline Protection	Current State Grant	Middle Sand Creek Corridor Restoration	\$274,072.00	\$160,036.99	12/23/2020	N
Construction	Streambank or Shoreline Protection	Federal Funds	Federal 319 Grant	\$291,000.00	\$288,287.75	12/31/2020	Y
Construction	Streambank or Shoreline Protection	Other Funds	319 grant	\$291,000.00	\$288,287.75	12/31/2020	N
Public Involvement, Education, & Outreach	Education/Information	Current State Grant	Middle Sand Creek Corridor Restoration	\$20,162.00	\$9,779.37	12/31/2020	N
Public Involvement, Education, & Outreach	Education/Information	Local Fund	CCWD unbudgeted cash match	\$0.00	\$229.61	9/23/2020	Y
Technical & Engineering Assistance	Technical/Engineering Assistance	Current State Grant	Middle Sand Creek Corridor Restoration	\$57,510.00	\$76,067.62	12/31/2019	N
Technical & Engineering Assistance	Technical/Engineering Assistance	Local Fund	CCWD unbudgeted cash match	\$0.00	\$40,760.12	12/31/2020	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
584 - Stream Channel Stabilization	1		1850 LINEAR FEET	825 LINEAR FEET
101M - Staff Time	1		1 COUNT	2 COUNT
104M - Workshop/Clinics	2		1 COUNT	1 COUNT
101M - Staff Time	1		1 COUNT	COUNT

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Construction	PHOSPHORUS (EST. REDUCTION)	120 LBS/YR	Sand Creek/Coon Creek	BWSR CALC (STREAM & DITCH STABILIZATION)	.85 lbs per ton TSS for sandy soils
Construction	SEDIMENT (TSS)	141 TONS/YR	Sand Creek/Coon Creek	Literature Value	NRCS Direct Volume Method

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	141.00	TONS/YR
PHOSPHORUS (EST. REDUCTION)	120.00	LBS/YR

Grant Activity

Grant Activity - Administration & Reporting	
Description	<p>Project coordination meetings with partners, project management (bid process, contracts, oversight), financial tracking, eLink reporting.</p> <p>This activity will be carried out by CCWD staff. The CCWD maintains a full-time staff and District Engineer with expertise in multiple-use resource management, hydrology, aquatic biology, outreach/education, and environmental regulations. CCWD staff has extensive experience working on stream restoration projects.</p> <p>Specifically, Justine Dauphinais, Water Quality Coordinator (B. A. Environmental Studies, M. Sc. Fisheries & Aquatic Biology), is responsible for day-to-day project management and grant reporting with administrative oversight by Tim Kelly, District Administrator. Jon Janke, Operations and Maintenance Coordinator (B. S. Natural Resource Management), is responsible for construction management in conjunction with the District Engineer, Ed Matthiesen (See Technical/Engineering Assistance Activity).</p> <p>Key milestones:</p> <ul style="list-style-type: none"> -JPA executed with landowner (City of Coon Rapids) by Mar 31, 2019 -acquisition of DNR Waters and USACE permits -selection of contractor by Oct 31, 2020 -reporting in eLink by Feb 1st each year
Category	ADMINISTRATION/COORDINATION
Start Date	22-Mar-19
End Date	
Has Rates and Hours?	Yes
Actual Results	<p>A JPA with the landowner (City of Coon Rapids) was executed in spring 2019. DNR waters and USACE permits were granted in fall/winter 2019 after completing the EAW process. The project was publicly bid and awarded to Sunram Construction on 1/13/20. Despite the short delay in awarding a contractor, construction commenced on schedule, with phase 1 occurring Jan-March 2020 and phase 2 starting in Dec 2020 and continuing through Spring 2021. Ongoing project management and construction oversight by the project Engineer and CCWD staff continues. All required grant reporting has been submitted on schedule.</p>

Grant Activity - Construction

Description

This activity includes construction site preparation & maintenance, mobilization of equipment, installation of grade stabilization structures and bank stabilization/protection BMPs, excavation and regrading of the channel and floodplain, tree-thinning, buckthorn clearing, seeding and planting, site restoration, demobilization of equipment, and post-construction vegetation maintenance to ensure successful establishment.

All work will be completed in accordance with approved design standards by 1 or more qualified contractors selected using a competitive bidding process.

Construction is planned for winter 2019-2020, but may start as late as fall 2020 if acquisition of a USACE permit delays project implementation. Substantial completion will occur no later than June 30, 2021.

Category

STREAMBANK OR SHORELINE PROTECTION

Start Date

1-Jan-20

End Date

Has Rates and Hours?

No

Actual Results

Phase 1 construction began on 1/27/2020 and was wrapped up by late March 2020. The site sat inactive during summer of 2020 to promote vegetation growth along the newly established off-line meanders. Phase 2 construction commenced in December 2020 to finish excavation and toe wood install to bring the new channel on-line by spring 2021. Work is progressing as scheduled with careful oversight by CCWD staff and the project engineer; no major issues or delays are anticipated.

With assistance from the MN DNR as project consultant, the original project design was expanded to maximize implementation of natural channel design principles (re-meandering, toe wood, and floodplain excavation) vs bank stabilization. This change was facilitated by phasing construction into 2 active periods over the 2-year construction window, with time for vegetation establishment between to stabilize vulnerable disturbed areas.

Activity Action - Bank stabilization practices			
Practice	584 - Stream Channel Stabilization	Count of Activities	1
Description	Completed a portion of bank stabilization work upstream of Olive St. The rest to be completed winter 2020-21. The completed portion results in annual pollutant reductions of 130 tons TSS and 111 lbs TP.		
Proposed Size / Units	1,850.00 LINEAR FEET	Lifespan	25 Years
Actual Size/Units	825.00 LINEAR FEET	Installed Date	31-Mar-20
Mapped Activities	No	Technical Assistance Provider	Private Consultant

Final Indicator for Bank stabilization practices			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	120
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Sand Creek		
Final Indicator for Bank stabilization practices			
Indicator Name	SEDIMENT (TSS)	Value	141
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Literature Value
Waterbody	Sand Creek		

Grant Activity - Public Involvement, Education, & Outreach

<p>Description</p>	<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 to discuss local stream impairments and introduce and promote the stream restoration project and gather feedback. Project updates will be published in the City of Coon Rapids' newsletter and on the CCWD's website. Additionally, interpretive signage will be designed and installed along the project reach. The CCWD will also host one or more interactive "Watershed Walks" along the trail at the project site to showcase the project and teach attendees about local impairments, monitoring, and BMPs.</p> <p>This activity will be carried out by CCWD staff. Specifically, Dawn Doering, Information & Education Coordinator, will oversee all public engagement efforts with assistance from Britta Dornfeld, Outreach Assistant. Fabrication and installation of the interpretive signage will be carried out by a qualified contractor (up to \$7500).</p> <p>Key milestones:</p> <ul style="list-style-type: none"> -project webpage created by Sept 30, 2019 -public open house hosted by June 30, 2020 -newsletter article published by June 30, 2020 -interpretive signage installed by Dec 31, 2021 -Watershed walk event hosted by Dec 31, 2021 		
<p>Category</p>	<p>EDUCATION/INFORMATION</p>		
<p>Start Date</p>	<p>24-Sep-19</p>	<p>End Date</p>	
<p>Has Rates and Hours?</p>	<p>Yes</p>		
<p>Actual Results</p>	<p>A dedicated project web page was created and continues to be updated regularly: www.cooncreekwd.org/middlesandcreekresto. A public open house was hosted on 9/24/19 and was very well attended. An article introducing the project was published in the winter 2020 edition of the Coon Rapids Connection quarterly newsletter and a follow-up article was published in the winter 2021 edition with an update on construction progress. A project brochure was developed and a message center sign was installed onsite to provide information and continuous updates to adjacent residents and trail users. On 9/25/20 a "watershed walk" outreach event was held where UMN biology students learned about pollution, stream restoration, habitat evaluation, and biomonitoring protocols. Field data was collected. Work began on development of interpretive signage content and outreach materials (3D stream/floodplain model of Middle Sand Creek</p>		

pre- and post-restoration and native fish models) for use in future project-specific outreach events.

Activity Action - Public open house workshop			
Practice	104M - Workshop/Clinics	Count of Activities	1
Description	Host public open house to promote project and gather feedback. Before construction begins, the CCWD and City of Coon Rapids will host a public open house to inform residents about the project and allow for questions, comments, and discussion.		
Proposed Size / Units	1.00 COUNT	Lifespan	Unknown
Actual Size/Units	1.00 COUNT	Installed Date	24-Sep-19
Mapped Activities	No	Technical Assistance Provider	

Activity Action - Interpretive signage			
Practice	101M - Staff Time	Count of Activities	1
Description	CCWD staff will develop content and a design for interpretive signage that will be installed along the project reach to educate trail users on the project.		
Proposed Size / Units	1.00 COUNT	Lifespan	25 Years
Actual Size/Units	COUNT	Installed Date	
Mapped Activities	No	Technical Assistance Provider	

Activity Action - Public outreach event			
Practice	104M - Workshop/Clinics	Count of Activities	1
Description	CCWD staff will host at least one public outreach activity to showcase the finished project & interpretive signage. Interested stakeholders including residents, senior groups, youth groups, and local agencies will be invited to participate in a 'watershed walk' tour which will showcase the project site and educate participants on the new water quality and stream habitat BMPs. 1 event featuring stream restoration and biomonitoring protocols was held for UMN students.		
Proposed Size / Units	1.00 COUNT	Lifespan	Unknown
Actual Size/Units	1.00 COUNT	Installed Date	25-Sep-20
Mapped Activities	No	Technical Assistance Provider	Other

Activity Action - Publish regular project updates			
Practice	101M - Staff Time	Count of Activities	1
Description	CCWD will publish regular projects updates on the project webpage and in the City of Coon Rapids newsletter. 2 newsletter articles have been published.		
Proposed Size / Units	1.00 COUNT	Lifespan	Unknown
Actual Size/Units	2.00 COUNT	Installed Date	31-Dec-19
Mapped Activities	No	Technical Assistance Provider	Other

Grant Activity - Technical & Engineering Assistance	
Description	<p>The District Engineer, Wenck, will provide technical and engineering assistance throughout the Project. The Engineer will develop and complete final project design plans (including any survey work), assist with securing necessary permits (USACE, DNR Waters, NPDES), implement the bidding process, and provide construction oversight (supervision and inspections).</p> <p>Ed Matthiesen, P. E., a licensed professional, will be the lead Engineer, will adhere to recognized design standards for all constructed practices (USDA-NRCS FOTG) and provide project sign-off upon completion (no later than June 30, 2021).</p>
Category	TECHNICAL/ENGINEERING ASSISTANCE
Start Date	22-Mar-19
End Date	
Has Rates and Hours?	No
Actual Results	<p>Wenck completed final design plans and implemented the public bidding process. Regular construction oversight occurred during Phase 1 of construction from Jan-Mar 2020 and is ongoing during Phase 2 of construction which started in Dec 2020.</p> <p>Expenditures for this Activity are significantly over budget due to expansion/change in design of the project and construction occurring in two separate phases to allow for site revegetation in-between. Working with the MN DNR, CCWD opted to expand natural channel design elements such as re-meandering, floodplain excavation, and toe wood installation vs stabilizing most banks in place. CCWD will cover overages for this Activity using local cash match.</p>

Grant Attachments

Document Name	Document Type	Description
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Document Name	Document Type	Description
2019 CCWD staff time excel	Grant	Middle Sand Creek Corridor Restoration
2019 Competitive Grant	Grant Agreement	2019 Competitive Grant - Coon Creek WD
2019 Competitive Grant EXECUTED	Grant Agreement	2019 Competitive Grant - Coon Creek WD
2019 ccwd staff time admin_reporting	Progress	Progress Dated - 01/29/2020
2019 ccwd staff time public inv edu outr	Progress	Progress Dated - 01/29/2020
2020 Financial Report_unsigned	Progress	Progress Dated - 01/21/2021
2020 Master Expenditure Tracking Spreadsheet	Progress	Progress Dated - 01/21/2021
30% Design Plans	Grant	Middle Sand Creek Corridor Restoration
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/23/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/21/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2020
Application	Workflow Generated	Workflow Generated - Application - 08/29/2018
Cash Match Documentation 2020	Progress	Progress Dated - 01/21/2021
Executed JPA with Landowner	Grant	Middle Sand Creek Corridor Restoration
FY19_MSCCR_CCWD_GrantApplImage	Grant	Middle Sand Creek Corridor Restoration
Financial report_2020_Signed	Grant	Middle Sand Creek Corridor Restoration
Grant Eligible Documentation_2019	Progress	Progress Dated - 01/29/2020
Grant Eligible Documentation_2020	Progress	Progress Dated - 01/21/2021
O&M Plan	Grant	Middle Sand Creek Corridor Restoration
Staff Time_2020	Progress	Progress Dated - 01/21/2021
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/19/2018