



Environment and Natural Resources Trust Fund

M.L. 2020 Approved Work Plan

General Information

ID Number: 2020-019

Staff Lead: Michael Varien

Date this document submitted to LCCMR: August 19, 2021

Project Title: Elm Creek Restoration - Phase IV

Project Budget: \$500,000

Project Manager Information

Name: Todd Tuominen

Organization: City of Champlin

Office Telephone: (763) 923-7120

Email: ttuominen@ci.champlin.mn.us

Web Address: <https://ci.champlin.mn.us/>

Project Reporting

Date Work Plan Approved by LCCMR: August 20, 2021

Reporting Schedule: April 1 / October 1 of each year.

Project Completion: July 31, 2023

Final Report Due Date: September 14, 2023

Legal Information

Legal Citation: M.L. 2021, First Special Session, Chp. 6, Art. 5, Sec. 2, Subd. 09j

Appropriation Language: \$500,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Champlin to conduct habitat and stream restoration of approximately 0.7 miles of Elm Creek shoreline above Mill Pond Lake and through the Elm Creek Protection Area.

Appropriation End Date: June 30, 2024

Narrative

Project Summary: Elm Creek Restoration Phase IV is a in-stream habitat restoration project that includes 3,670 linear feet of stream bank restoration upstream of Mill Pond Lake

Describe the opportunity or problem your proposal seeks to address. Include any relevant background information.

Elm Creek Stream Restoration is the fourth phase of high priority phased projects working to restore the habitat in the Elm Creek. Champlin is working with the Elm Creek Watershed Management Commission, BWSR, DNR and Hennepin County to restore water resources that within the Elm Creek Natural Area. Elm Creek is an impaired water with low dissolved oxygen, restoring the stream banks and providing habitat structure will reduce downstream sedimentation and provide native habitat improvements. The City of Champlin Management Plan developed in 2008 has identified goals for accelerating programs and projects for improved habitat, water quality and flood control through a variety of conservation measures in Elm Creek and Mill Pond Lake. In preparing the Habitat Restoration Plan, the City of Champlin utilized all available data which includes hydrologic assessments and completed field surveys of Elm Creek Phase IV project based on standards in the Minnesota Department of Natural Resources (MNDNR) Fisheries Stream Survey Manual, Rosgen Channel Characterization. Our experience in completing previous phases of habitat restoration projects we have effectively reduced costs on the project, achieved overall project goals and allows effectively efficient project completion schedules. Previous phases included Mill Pond Lake Restoration.R

What is your proposed solution to the problem or opportunity discussed above? i.e. What are you seeking funding to do? You will be asked to expand on this in Activities and Milestones.

Phase IV is a continuation of the Elm Creek habitat restoration project. This project includes 3,670 linear feet of stream bank restoration of Elm Creek upgradient of the Mill Pond Lake. Preliminary design plans have been completed in cooperation with the MNDNR, Elm Creek Management Commission and BWSR. Elm Creek is impaired water with low dissolved oxygen, restoring the stream banks and providing habitat structure will reduce downstream sedimentation and provide native habitat improvements including root wads, boulder vanes, toewood, boulder clusters, rock weirs and riffles with varied substrate to enhance aquatic species habitat including sensitive species such as Blandings Turtle. The riparian areas of the creek will be restored with native planting buffer using native seeding that will filter sediments and nutrients from direct runoff. Our current water plan specifically identifies goals for accelerating projects for improved habitat, water quality and flood control. The project allows the City of Champlin to meet these goals and open opportunities for the public that includes recreation, fishing and educational experiences. Long term goals of the project are to restore aquatic habitat and restore structural elements. Placement of aquatic structures including rock vanes and riffle pools will optimize oxygen in the stream.

What are the specific project outcomes as they relate to the public purpose of protection, conservation, preservation, and enhancement of the state's natural resources?

The habitat restoration project is designed for long-term ecological and hydraulic stability. Once the project is completed and vegetation well established, no significant maintenance is will be required to sustain the designed habitat outcomes. The increase in wildlife, amphibian and fish populations are gains which are sustainable long-term through natural reproduction. The goal for timeline requirements of overall project is approximately 1.0 year. Phase IV which we are requesting funding timeline requirements is approximately 1.5 years. We anticipate that long-term monitoring of the integrity of the improvements will be done in conjunction with routine inspections and biological monitoring.

Project Location

What is the best scale for describing where your work will take place?

Region(s): Metro

What is the best scale to describe the area impacted by your work?

Region(s): Metro

When will the work impact occur?

During the Project

Activities and Milestones

Activity 1: Final Design, Engineering, Permitting Project Supervision

Activity Budget: \$105,000

Activity Description:

The City of Champlin utilizes all available data which includes hydrologic assessments and completed field surveys of Elm Creek Phase IV project based on standards in the Minnesota Department of Natural Resources (MNDNR) Fisheries Stream Survey Manual, Rosgen Channel Characterization. Our experience in completing previous phases of the Elm Creek habitat restoration projects we have effectively reduced costs on the project, achieved overall project goals and allows effective and efficient project completion schedule. The design team will be required to assess the existing stream conditions and attributes. Due to the loss of stream habitat and structure, the redesign of these features will meet specific goals Elm Creek is impaired water with low dissolved oxygen, restoring the stream banks and providing habitat structure will reduce downstream sedimentation and provide native habitat improvements including root wads, boulder vanes, toewood, boulder clusters, rock weirs and riffles with varied substrate to enhance aquatic species habitat including sensitive species such as Blandings Turtle. The riparian areas of the creek will be restored with native planting buffer using native seeding that will filter sediment and nutrients from direct runoff. Our water plan specifically identifies goals for accelerating projects for improved habitat, water quality and flood.

Activity Milestones:

Description	Completion Date
Survey, Engineer Plans- Specifications and Bid	October 31, 2020
Obtain permits from MPCA, MNDNR, USCOE, ECWMC, & Champlin	October 31, 2020

Activity 2: Phase IV Elm Creek Habitat Restoration and Construction

Activity Budget: \$395,000

Activity Description:

The Activity 2 will include the implementation of the Phase IV design of the Elm Creek restoration. The restoration construction will include the stabilization of the stream bank and construction of instream habitat including: root wads, boulder vanes, toewood, boulder clusters, rock weirs and riffles. This work will be supervised closely with experienced inspection team. The work will include the construction of varied substrate in the stream channel to provide and enhanced aquatic species habitat. Attentive inspection is necessary to provide protection of sensitive species such as Blandings Turtle and provide permit compliance. The riparian areas of the creek will be restored with native planting buffer using native seeding that will filter sediments and nutrients from direct runoff. The habitat restoration project is designed for long-term ecological and hydraulic stability. Once the project is completed and vegetation well established, no significant maintenance is will be required to sustain the designed habitat outcomes. The increase in wildlife, amphibian and fish populations are gains which are sustainable long-term through natural reproduction. Post construction surveys will be completed, along with Project Summary Reports and will provide comply project permits.

Activity Milestones:

Description	Completion Date
Streambank and instream construction and the development of instream habitat features and natural restoration	March 31, 2021
Construction Materials, Erosion Control, Native Seeding	March 31, 2021
Construction Supervision: Permit Compliance Inspections, Constuction Supervision	March 31, 2021
Post Construction Stream Survey and Project Summary Report	May 31, 2022

Dissemination

Describe your plans for dissemination, presentation, documentation, or sharing of data, results, samples, physical collections, and other products and how they will follow ENRTF Acknowledgement Requirements and Guidelines.

The City of Champlin will recognize the LCCMR and ENRTF through publication of the Champlin Chronical and City WEB Site updates through the course of the project and upon completion. Additional signage will be placed at Trail Head locations along the Elm Creek Trail System. As part of Citizen Science efforts, the City will distribute environmental education information with acknowledgment of LCCMR and ENRTF. The City will engage the public on the City cable network with informative news segments with acknowledgement of the project funding efforts by the ENRTF.

Long-Term Implementation and Funding

Describe how the results will be implemented and how any ongoing effort will be funded. If not already addressed as part of the project, how will findings, results, and products developed be implemented after project completion? If additional work is needed, how will this be funded?

Long-term monitoring of the integrity of the improvements and biological monitoring conducted by local MNDNR staff, volunteers from local and the City of Champlin as appropriate. This monitoring and maintenance will not require separate funding. In the event that there are other maintenance costs, volunteer labor and other funds sources will be obtained to complete the required maintenance.. The improvements described above will be incorporated in Phase IV and will require future funding request for Phase V. A long-term monitoring/maintenance plan will be implemented to assure all constructed habitat restoration measures are adequately functioning as designed for the project.

Other ENRTF Appropriations Awarded in the Last Six Years

Name	Appropriation	Amount Awarded
Champlin Mill Pond Shoreland Restoration	M.L. 2016, Chp. 186, Sec. 2, Subd. 08i	\$2,000,000

Budget Summary

Category / Name	Subcategory or Type	Description	Purpose	Gen. Ineligible	% Benefits	# FTE	Classified Staff?	\$ Amount
Personnel								
							Sub Total	-
Contracts and Services								
WSB Engineering	Professional or Technical Service Contract	The consultant will provide: Surveys, Final Design Engineering, Permitting, Construction Supervision, Construction Plans, Permits		X		3,013.5		\$105,000
							Sub Total	\$105,000
Equipment, Tools, and Supplies								
	Tools and Supplies	Construction of Instream: Riffle Materials, Woodtoe, Wo structures, Rock Deflectors	The riparian areas of the creek will be restored using instream habitate structures to restore the native habitat and stream biota and providing water quality improvements					\$395,000
							Sub Total	\$395,000
Capital Expenditures								
							Sub Total	-
Acquisitions and Stewardship								
							Sub Total	-
Travel In Minnesota								
							Sub Total	-

Travel Outside Minnesota								
							Sub Total	-
Printing and Publication								
							Sub Total	-
Other Expenses								
							Sub Total	-
							Grand Total	\$500,000

Classified Staff or Generally Ineligible Expenses

Category/Name	Subcategory or Type	Description	Justification Ineligible Expense or Classified Staff Request
Contracts and Services - WSB Engineering	Professional or Technical Service Contract	The consultant will provide: Surveys, Final Design Engineering, Permitting, Construction Supervision, Construction Plans, Permits	WSB is the in house City Engineers for the City of Champlin This is a single source contract.

Non ENRTF Funds

Category	Specific Source	Use	Status	Amount
State				
			State Sub Total	-
Non-State				
			Non State Sub Total	-
			Funds Total	-

Attachments

Required Attachments

Visual Component

File: [4feb1b4b-607.docx](#)

Alternate Text for Visual Component

Map of Elm Creek Phase IV...

Board Resolution or Letter

Title	File
Elm Creek Phase IV Maps	7919de07-35c.docx
Back Ground Check Certification	e7c25185-3c2.pdf

Difference between Proposal and Work Plan

Describe changes from Proposal to Work Plan Stage

Added new completion date of June 31, 2023 and Back Ground Check Certification

Additional Acknowledgements and Conditions:

The following are acknowledgements and conditions beyond those already included in the above workplan:

Do you understand and acknowledge the ENRTF repayment requirements if the use of capital equipment changes?

N/A

Do you agree travel expenses must follow the "Commissioner's Plan" promulgated by the Commissioner of Management of Budget or, for University of Minnesota projects, the University of Minnesota plan?

N/A

Does your project have potential for royalties, copyrights, patents, or sale of products and assets?

No

Do you understand and acknowledge IP and revenue-return and sharing requirements in 116P.10?

N/A

Do you wish to request reinvestment of any revenues into your project instead of returning revenue to the ENRTF?

N/A

Does your project include original, hypothesis-driven research?

No

Does the organization have a fiscal agent for this project?

No



