Name: **Prior Lake Outlet Channel Realignment/Wetland Restoration**

Description of Activity:

This project includes a feasibility study to determine potential water quality benefits to Dean Lake that would result from restoration of the Prior Lake Outlet Channel including altering the alignment (creating meanders) and constructing a flow-through wetland complex to slow the flow of water. Funds will also be used towards the construction of identified activities/BMP's that will benefit water quality in Dean Lake and, subsequently, the Minnesota River downstream.

Workplan Activities

1. Feasibility Study - Complete feasibility study to evaluate the potential water quality benefits of the realignment/wetland restoration project.
    a. Budget: $22,000 (WBF - $20,000 and City of Shakopee match $2,000)
    b. Timeline: December 2018 – May 2019
2. Construction of Water Quality Improvement Activities – Specific implementation activities that will benefit water quality.
    a. Budget: $78,727 (WBF - $51,570 and City of Shakopee match $5,157)
    b. Timeline: May 2019 – December 2021

Activity: Prior Lake Outlet Channel Realignment/Wetland Restoration - Feasibility Study
Activity Category: Planning and Assessment
Budget: $20,000($2,000 additional to be included in grant match activity)
City of Shakopee staff or consultant? Consultant
Hourly Rate if City of Shakopee staff: N/A
# of hours: N/A

Project Description: Complete feasibility study to evaluate the potential water quality benefits of the realignment/wetland restoration project.

Overall Measurable Outcome: A report that evaluates the water quality benefits of the realignment/wetland restoration project. The feasibility study is to verify estimated load reductions of 30-50 lbs TP annually and 75,000-100,000 lbs TSS annually.
Year 1 Milestones: Complete feasibility study and verify load reduction estimates.
Year 2 milestones: N/A
Year 3 Milestones: N/A

Activity: Prior Lake Outlet Channel Realignment/Wetland Restoration - Survey and Engineering Design

Activity Category: Engineering Design
Budget: $51,570($5,157 additional to be included in grant match activity)
City of Shakopee staff or consultant? Consultant
Hourly Rate if City of Shakopee staff: N/A
# of hours: N/A

Project Description: Complete a topographic survey the project area to aid in the detailed engineering design of the project. Prepare construction drawing and specifications necessary to competitively bid and construct the project

Overall Measurable Outcome: Completed survey and engineering design
Year 1 Milestones: N/A
Year 2 milestones: Completed survey and engineering design
Year 3 Milestones: N/A

Activity: Prior Lake Outlet Channel Realignment/Wetland Restoration - Construction of Water Quality Improvement Activities

Activity Category: Wetland Restoration/Creation
Budget: $51,570($5,157 additional to be included in grant match activity)
City of Shakopee staff or consultant? Consultant
Hourly Rate if City of Shakopee staff: N/A
# of hours: N/A

Project Description: Construction of specific implementation activities identified by the feasibility study to provide water quality benefit. It is estimated that this project, if supported by the feasibility report, could remove 30-50 lbs of TP annually and 75,000 to 100,000 lbs of TSS annually.

Overall Measurable Outcome: Construction of the implementation activities to achieve water quality benefit
Year 1 Milestones: Start construction.
Year 2 milestones: Complete construction.
Year 3 Milestones: N/A

Activity: Prior Lake Outlet Channel Realignment/Wetland Restoration - Grant Match

Activity Category: Administration/Coordination
Budget: $7,157

City of Shakopee staff or consultant? Consultant
Hourly Rate if City of Shakopee staff: N/A
# of hours: N/A

Project Description: Grant match will come from a cash match from the City of Shakopee. General breakdown of matching funds for specific activities is as follows:
Feasibility Study: $2,000
Construction of Water Quality Improvement Activities: $5,157

Overall Measurable Outcome: A feasibility study verifying water quality benefits and construction of implementation activities to achieve water quality benefit.
Year 1 Milestones: Complete feasibility study and start construction.
Year 2 milestones: Complete construction.
Year 3 Milestones: N/A