**To:** Steering Committee **Date:** 6/22/2022

**From:** Pine County Soil and Water Conservation District

**Subject:** WBIF Project Request:Jahnz Wetland Restoration

# Table of Acronyms

|  |  |
| --- | --- |
| CWMP: Comprehensive Watershed Management Plan | LSC: Lower St. Croix |
| SWCD: Soil & Water Conservation District | WD: Watershed District |
| WBIF: Watershed Based Implementation Funding | WMO: Watershed Management Organization |

# Eligible Project Sponsors

A sponsoring agency is required for each submitted project. The sponsor fills out this request. That agency must be a party to the Joint Powers Agreement for the implementation of the Lower St. Croix Comprehensive Watershed Management Plan. The sponsor, if the project is selected for funding, will enter into a subcontract with the Chisago Soil and Water Conservation District (SWCD) for project funding.

# Description of Project (brief paragraph)

This project will restore approximately 2.6 acres of drained and degraded wetland habitat located on private land in Pine County, Minnesota. The project will provide wetland and upland habitat for “Federal Trust” resources and native flora and fauna. The project will contribute towards the restoration goals in the Upper Mississippi River/Great Lakes Joint Venture and Minnesota’s Comprehensive Wildlife Conservation Strategy Action Plan as well as the Lower St. Croix Partnership. Additionally, this project will provide improved water quality, floodwater retention, groundwater recharge, carbon sequestration, and other biological services important to the public, the Lower St. Croix Partnership, and USFWS’s mission.

# Benefitted Waterbody Information (add rows for additional waterbodies if necessary)

|  |  |
| --- | --- |
| Target waterbody | Rock Lake |
| Waterbody area (acres) | 87.64 |
| Watershed area (acres) | 6,264 (TMDL) 3,240 (Preliminary SWA) |
| DNR shoreline classification | Natural Environment |
| Description of the watershed and near-shore land uses | Rural ag and fragmented forest |
| Impairment status | Impaired |
| Protection or restoration | Restoration of 2.6 acres |

# Project Details

|  |  |
| --- | --- |
| Project Name | Jahnz Wetland Restoration |
| Project Sponsor | Pine SWCD |
| Additional Project Partner(s) (other than sponsor) | U.S. Fish and Wildlife Service |
| Project Location (lat/long, address, or description) | 18802 Pine Branch Dr SE Pine City 55063 |
| DNR Level 8 Subwatershed | Rock Lake |
| Applicable WBIF Work Plan Activity | A6 |
| Funding Specifically Allocated to this Project in Work Plan (if applicable) | No |
| Estimated Construction Timeline | Mid-Summer to early Fall 2022 |
| Total Project Cost | $ 13,848.00 |
| Estimated Lifetime Project Cost (incl. O&M) | Minimal, monitoring for failure and occasional physical labor by landowner |
| Requested Grant Funding | $ 10,308.00 |
| Match provided, match source (cannot be state funds) | USFWS - $500, Landowner - $3,040 |
| Target Waterbody (from CWMP Table 5-2, 5-3, 5-4) | Rock Lake |
| Est. Phosphorus Load Reduction @ Target Waterbody | 5.46 lb/yr, 81.9 lbs total |
| Est. TSS Load Reduction @ Target Waterbody | BSWR’s recommended calculator does not include this |
| Calculation Tool Used | Wetland Restoration Effectiveness Tool (https://bbe.umn.edu/wret) |
| Project Lifespan | 15 Years |
| Lifetime Cost-Benefit ($/lb phosphorus removed) | $169/lb P removed |

# Pre-Project Identification

|  |  |
| --- | --- |
| Total phosphorus load entering target waterbody | 2,655.4 lbs/yr (Goose Creek Watershed TMDL, 2015) |
| Total suspended solids load entering target waterbody | Not Available |
| Major sources of nutrient loading | upstream lake effluent, internal release of phosphorus from lake sediments, and fertilizer and manure runoff from agricultural lands (Appendix A) |
| P reduction required to achieve water quality goal | 1,752.6 lbs/yr |
| Completed projects, load reduction | 1.7 lbs/yr |
| Alternative projects, load reduction | None |

**List of Informational Attachments/Templates Included With Form:**

1. WBIF Project Request Process Flow Chart
2. CWMP Priority Waterbody Maps
3. CWMP Appendix C – Project Targeting Criteria and Scoring Matrix (for Activities 2, 4, 5, 9)
4. Wetland Restoration Scoring Matrix (for Activity 6)
5. Internal Analysis Request for Funding (for Activity 7; filled out by applicant)
6. Internal Analysis Selection Criteria (for Activity 7; filled out by subcommittee)
7. Targeting Analysis Scoring Matrix (for Activity 8)

**Required Attachments for Requesting Partner to Complete (check all that apply):**

[x]  Project Plans/Visual/Map (for all requests)

[ ]  Completed Appendix C Project Scoring Matrix (for Activities 2, 4, 5, 9)

[x]  Completed Wetland Restoration Scoring Matrix (for Activity 6)

[ ]  Completed Internal Analysis Request for Funding (for Activity 7)

[ ]  Completed Internal Analysis Selection Criteria (for Activity 7)

[ ]  Completed Targeting Analysis Scoring Matrix (for Activity 8)

|  |
| --- |
| WBIF Work Plan Activity Color Coding |
| Implementation - BMPs/Restoration Activities |
| Implementation - Shared Services |
| Prioritization & Analysis |
| Administration |

*Submit this form and attachments to Angie Hong at (**ahong@mnwcd.org**) one week prior to the Steering Committee meeting.*

# Steering Committee Roll Call Vote

Steering Committee roll call vote to recommend [Project Sponsor] project for Lower St. Croix Watershed Based Implementation Funding in the amount of $\_\_\_\_\_\_ for the [Project Name].

|  |  |  |  |
| --- | --- | --- | --- |
| **Organization** | **Aye** | **Nay** | **Absent** |
| Anoka SWCD |  |  |  |
| Brown's Creek WD |  |  |  |
| Carnelian Marine St Croix WD |  |  |  |
| Chisago County |  |  |  |
| Chisago Lakes LID |  |  |  |
| Chisago SWCD |  |  |  |
| Comfort Lake Forest Lake WD |  |  |  |
| Isanti County |  |  |  |
| Isanti SWCD |  |  |  |
| Middle St. Croix WMO |  |  |  |
| Pine County |  |  |  |
| Pine SWCD |  |  |  |
| South Washington WD |  |  |  |
| Sunrise River JP WMO |  |  |  |
| Valley Branch WD |  |  |  |
| Washington CD |  |  |  |
| Washington County |  |  |  |
| **TOTAL (need majority vote to pass)** |  |  |  |