

Lessard-Sams Outdoor Heritage Council

Buffalo-Red River Watershed District Stream Habitat Program – Phase 3 ML 2023 Request for Funding

General Information

Date: 06/16/2022

Proposal Title: Buffalo-Red River Watershed District Stream Habitat Program - Phase 3

Funds Requested: \$9,428,000

Manager Information

Manager's Name: Kristine Altrichter

Title: Administrator

Organization: Buffalo-Red River Watershed District

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Location Information

County Location(s): Wilkin, Becker and Clay.

Eco regions in which work will take place:

Prairie

Activity types:

- Restore
- Enhance
- Protect in Easement

Priority resources addressed by activity:

- Prairie
- Habitat

Narrative

Abstract

A century of channel straightening has significantly reduced the habitat quality within the BRRWD. The BRRWD has identified, with preliminary designs completed, a number of straightened streams. In several multi-phase projects, the BRRWD in partnership with landowners, federal, state, and local agencies, will restore 4.2 miles of the South Branch Buffalo River, and 5.1 miles of Stony Creek and their respective riparian habitat corridors. Additional restorations of straightened streams include Upper Buffalo River, Whisky Creek, and Whiskey's Creek southern tributary (Phase 4). Easement acquisition of conservation lands will be required in corresponding project corridors.

Design and Scope of Work

Throughout the last century, channel straightening efforts and poor field practices have significantly reduced the habitat quality within BRRWD. Channel straightening efforts have eliminated hundreds of acres of quality stream habitat. Straightened channels create homogenous habitats that no longer have the shallow riffles and deeper pools that are required by fish at various stages in their life cycle. Straightened reaches also tend to lose access to their floodplains which increases erosion in the channel and causes downstream flooding. In addition, aggradation of the downstream channel, due to increased sediment loading, reduces habitat quality and makes flooding worse. Over the last several years, BRRWD, with input and in partnership with landowners, federal, state, and local agencies, designed comprehensive subwatershed restoration plans and intends to implement these plans over the next several years. A component of these plans includes the restoration of numerous reaches of straightened and abandoned creek and river channels throughout the Watershed District. Prioritization of projects is largely based on ecological benefits, being shovel-ready and having landowner and other stakeholder support. In these multiphase projects, the BRRWD plans to restore 4.2 miles of the South Branch Buffalo River with 894-acres of associated riparian habitat corridor to be acquired and restored, and 5.1 miles of Stony Creek with 190-acres of associated riparian habitat corridor to be acquired and restored. Requiring land often creates time constraints and delays project progress. To ensure timely progress on proposed and future phases of these projects, easement acquisition for additional future phases are considered in this proposal. The South Branch Buffalo River and Stony Creek will be restored using natural channel design principles. River restorations have been designed with direct input from the MN DNR River Ecology Unit as well as the MN Board of Water & Soil Resources (BWSR). A sinuous riffle-pool natural channel design is proposed to recreate the aquatic habitat diversity that was lost in the straightened channel. Naturally stable restored channels will not only recreate lost habitat but will reduce the current erosion that is overloading downstream reaches of the South Branch Buffalo River and Stony Creek. The easement acquisition part of this project is proposed to be completed using the Reinvest in Minnesota project implemented by MN BWSR. As part of their comprehensive subwatershed planning process, BRRWD has completed planning and design on three additional stream reaches which are included as part of this application package. These include the restoration of Whisky Creek (14.5 miles), Whiskey Creek, its south tributary (1.18 miles, Phase 4), and the Upper Buffalo River (16 miles) and their associated riparian corridors. Additional stream restoration enhancement along Whisky Creek, Whiskey Creek, and the Upper Buffalo River will be completed as funding permits when and if additional sources of match funding become available. Combined, these comprehensive projects have the potential to restore and enhance more than 32 miles of natural prairie stream. Ultimately, over 1,750 acres of stream, river, floodplain, wetland, and grassland habitat along these restoration reaches will be protected and restored.

How does the proposal address habitats that have significant value for wildlife species of greatest conservation need, and/or threatened or endangered species, and list targeted species?

These stream restoration projects, South Branch Buffalo River (4.2 miles) and Stony Creek (5.1 miles), will restore a combined total of 9.5 miles of stream and riparian habitat for associated fish and wildlife communities and are a part of the long-term effort within the BRRWD. These projects will also benefit mussel and insect populations along and downstream of the South Branch Buffalo River and Stony Creek by improving water quality. Pollinator seed mixes will be used along the habitat corridors. These projects will provide enhanced wildlife corridors. The South Branch downstream of the restoration reach will benefit from a reduced sediment loading to the river resulting from the project. Acquisition and restoration of the stream channel corridor will also improve habitat for Channel Catfish, Northern Pike, and another 70+ fish species present in Red River Basin. Some species of fish will also benefit from the project as a result of a larger quantity of better quality spawning habitat. Less than one mile away, Lawndale Creek is a designated trout stream. DNR studies show that throughout the year, the trout migrate to the South Branch. Restoration of the nearby channel will increase fish usage of this perennial stream. Greater Prairie Chicken is one upland species that will also benefit from the permanent protection of upland areas.

What is the degree of timing/opportunistic urgency and why it is necessary to spend public money for this work as soon as possible?

The South Branch Buffalo River and Stony Creek have been degraded for some time. What has changed is that landowners are ready to implement the proposed project. Some RIM and WRP easements have closed in the last several years along the corridor. Funding for the complete restoration is the issue. Locally raised funding will be part of the overall project funding package. However, without outside funding to help defray the implementation cost, the projects may not happen. The existing stream function is degraded and restoration will return the functions of the stream which will have many ecological and water quality benefits in the upstream portion of this watershed.

Describe how the proposal uses science-based targeting that leverages or expands corridors and complexes, reduces fragmentation or protects areas identified in the MN County Biological Survey:

The BRRWD uses a science-based planning model for the selection of stream projects. The targeted projects involve straightened reaches that have lost much of their habitat diversity. Reference stream reaches set the geometry for all of the proposed stream restoration based on survey work completed by the MN Department of Natural Resources (DNR). Geometry used is characteristic of Rosgen E-channels in low gradient streams. The South Branch project is located in the vicinity of the Rothsay WMA (4 miles east), Manston WMA (2 miles southwest), Atherton WMA (1 mile northeast), soon to be established Rogelstad WMA (1 mile east) and a designated trout stream (Lawndale Creek). In addition, RIM easements, an SNA, and a number of WRP projects in the South Branch project area connect the project in a continuous habitat corridor directly to the Rothsay WMA. The South Branch project would be adjacent to the Rothsay Prairie which is identified in the MN Prairie Conservation Plan as a core area. The Upper Buffalo project is located in the vicinity of the Ogema WMA (1 mile east), Riparia WMA (adjacent to project), Pednor WMA (2 miles northwest), Matter WPA, Donley/Tillman WPA, Buchl WPA, and Hamden Slough NWR. The Upper Buffalo project is in the Waubun Prairie which is identified in the MN Prairie Conservation Plan as a core area. The Minnesota Prairie Plan also lists restoration of channelized prairie river segments and cultivation of lands immediately adjacent to streams and ditches as "critical challenges". In addition, the BRRWD has completed GIS-based terrain analysis to identify, prioritize, and target conservation best management practices in the contributing agricultural watershed. Many of these best management practices have been implemented, with more planned.

Which two sections of the Minnesota Statewide Conservation and Preservation Plan are most applicable to this project?

- H2 Protect critical shoreland of streams and lakes
- H6 Protect and restore critical in-water habitat of lakes and streams

Which two other plans are addressed in this proposal?

- National Fish Habitat Action Plan
- Red River of the North Fisheries Management Plan

Describe how your program will advance the indicators identified in the plans selected:

In these multi-phase projects, the BRRWD plans to restore 9.5 miles of natural stream with an associated river habitat corridor along the South Branch Buffalo River and Stony Creek. This program addresses goals 3 and 4 of the National Fish Habitat Action Plan: Goal #3 is to reverse declines in the quality and quantity of aquatic habitats to improve the overall health of fish and other aquatic organisms. Goal #4 is to increase the quality and quantity of fish habitats that support a broad natural diversity of fish and other aquatic species. The program also addresses several objectives from the Red River of the North Fisheries Management Plan: Objective #1: Establish and maintain stable stream channels. Objective #4: Provide heterogeneous and complex physical habitat components consistent with the physiographic setting and important to aquatic species in the Red River basin.

Which LSOHC section priorities are addressed in this proposal?

Prairie

Restore or enhance habitat on public lands

Describe how your program will produce and demonstrate a significant and permanent conservation legacy and/or outcomes for fish, game, and wildlife as indicated in the LSOHC priorities:

A priority for prairie zones of Minnesota is to reverse the negative effects of stream channelization on in-stream habitats for fish and other aquatic organisms. Channelization has changed the hydrology of streams, which has then made them wider and more deeply incised. The proposed projects, South Branch Buffalo River and Stony Creek, will restore 9.5 miles of in-stream habitats. Riparian vegetation will be restored to stabilize stream banks (several state and federal programs, such as RIM and CREP, may potentially provide financial assistance). Natural channel restoration designs will be constructed where streams have been channelized to provide better access of floodplain to dissipate stream energy and allow the river room to meander, which will provide more diverse habitat for aquatic organisms. This project will build on previous conservation efforts in the areas. The project adds onto a significant block of habitat previously restored wetlands and upland vegetation that were established under RIM and WRP as well as on State and Federal lands. These efforts combined with the proposed project hold water on the landscape and allow for increased infiltration, which will help mitigate the altered hydrology of the watershed and helps habitat by providing a more natural flow regime.

What other fund may contribute to this proposal?

Clean Water Fund

Does this proposal include leveraged funding?

Explain the leverage:

The BRRWD has existing Clean Water Fund Grants through with the MN BWSR and will work with and encourage landowners to utilize programs (CREP, RIM) to implement the project to the extent possible. These programs require landowners to apply and it is expected that landowners will participate. Local tax levy funds will also be used as leverage funds. The BRRWD also expects to receive funding from the NRCS through their National Water Quality Initiative (NWQI) program.

Per MS 97A.056, Subd. 24, Please explain whether the request is supplanting or is a substitution for any previous funding that was not from a legacy fund and was used for the same purpose.

The funding provided by the Outdoor Heritage Fund does not supplant or substitute for any previous funding.

Non-OHF Appropriations

| Year | Source | Amount |
|-----------|--|--------------|
| 2010 | MN BWSR - RIM | 478,094.83 |
| 2013 | Clean Water Fund | 336,000 |
| 2013-2021 | Local Tax Levy | 400,000 |
| 2016 | MN BWSR - RIM | 1,063,106.25 |
| 2020-2023 | National Water Quality Initiative (NRCS) | 2,900,000 |
| 2020-2023 | Conservation Reserve Enhancement Project | 1,500,000 |
| 2020-2023 | National Water Quality Initiative (NRCS) | 39,000 |
| 2021 | Clean Water Fund | 300,000 |
| 2021 | USFWS – Great Plains Fish Habitat Partnership | 50,000 |
| 2021 | Clean Water Fund | 320,000 |
| 2021 | Watershed Based Implementation Funding | 400,000 |
| 2021 | DNR Flood Hazard Mitigation Program | 320,000 |
| 2022 | National Water Quality Initiative (NRCS) | 45,500 |
| 2022 | Clean Water Fund | 350,000 |

How will you sustain and/or maintain this work after the Outdoor Heritage Funds are expended?

In accordance with Minnesota Watershed Law and the Red River Basin Flood Damage Reduction Work Group Mediation agreement, projects implemented under this grant will be monitored to ensure they are working as intended. It is expected that there will be some maintenance in the first few years to ensure native vegetation is established. The stream restoration projects are designed following natural channel design principles and are expected to be largely self-sustaining. Significant long-term maintenance costs are not expected; however, the BRRWD will set up a local tax levy that will provide long-term maintenance funding for the project. The locally raised levy will provide an annual revenue stream for maintenance. Post-project monitoring will be conducted by the BRRWD, the Riverwatch Program, and the International Water Institute, as project partners. Additionally, once RIM easement is acquired, BWSR is responsible for monitoring and enforcement into perpetuity. The BWSR partners with local SWCDs to carry-out oversight, monitoring, and inspection of its conservation easements. Onsite inspections are conducted every three years and compliance checks are performed every two years. SWCDs report to BWSR on each site inspection. Perpetual monitoring and enforcement cost have been calculated at \$6,500 per easement based on local SWCD rates.

Actions to Maintain Project Outcomes

| Year | Source of Funds | Step 1 | Step 2 | Step 3 |
|----------------|---------------------|-------------------------|-----------------------|----------------------|
| 2021 - Ongoing | Stewardship Account | Inspection every year | Corrective actions on | Enforcement action |
| | | for first 5-years; then | any violations | taken by MN Attorney |
| | | every 3rd year | | General Office |
| 2021 - Ongoing | Landowner | Maintain compliance | - | - |
| | Responsibility | with easement terms | | |

Identify indicator species and associated quantities this habitat will typically support:

Restoration of the South Branch Buffalo River and Stony Creek will provide 9.5 miles of improved stream channel and riparian corridor for Channel Catfish, Northern Pike, and another 70+ fish species present in Red River Basin. The restored channel will have higher quality, more complex habitat than is currently provided. Some species of fish will also benefit from the project as a result of a larger quantity of better quality spawning habitat. Northern pike would be a likely fish species to utilize the restored channel for spring spawning along the stream.

Amphibians such as the Canada Toad, Great Plains Toad, Leopard Frog, Cope Toad, Western Chorus Frog and Spotted Salamander, would also benefit, especially with the expanded riparian buffer area. The 1,084 acres of prairie riparian habitat would be expected to support 20 nesting pairs of each upland species such as Ring-necked Pheasant and Meadowlark. Pollinator seed mixes are proposed along the stream restoration to enhance opportunities for honey bees, native bees, butterflies, and other insects. The Greater Prairie Chicken (MN Special Concern) is an additional upland species that will also benefit from the permanent protection of upland areas. The project, with 1,084 plus acres of permanently protected riparian habitat alongside the existing RIM, SNA, and WMA land, could support an estimated 20 breeding pair of prairie chickens. The DNR has also identified breeding pairs of Bobolink using the area, which should increase with increased prime habitat.

How will the program directly involve, engage, and benefit BIPOC (Black, Indigenous, People of Color) and diverse communities:

The Upper Buffalo project is located within the White Earth Indian Reservation. The 150 acres of restored floodplain, wetland, and grassland habitat area, in addition to the 7 miles of restored channel, will have a direct positive impact on the Indigenous community throughout the White Earth Indian Reservation.

Activity Details

Requirements

If funded, this proposal will meet all applicable criteria set forth in MS 97A.056? Yes

Is the land you plan to acquire (easement) free of any other permanent protection? Yes

Will restoration and enhancement work follow best management practices including MS 84.973 Pollinator Habitat Program?

Yes

Is the restoration and enhancement activity on permanently protected land per 97A.056, Subd 13(f), tribal lands, and/or public waters per MS 103G.005, Subd. 15?

Yes

Where does the activity take place?

- Permanently Protected Conservation Easements
- Public Waters

Land Use

Will there be planting of any crop on OHF land purchased or restored in this program?

No

Will the eased land be open for public use?

No

Are there currently trails or roads on any of the proposed acquisitions?

Yes

Describe the types of trails or roads and the allowable uses:

Roads or trails are typically excluded from the easement area if they serve no beneficial purpose to easement maintenance, monitoring, or enforcement. Existing trails and roads are identified during the easement acquisition process. Some roads and trails, such as agricultural field accesses, are allowed to remain.

Will the trails or roads remain and uses continue to be allowed after OHF acquisition? Yes

How will maintenance and monitoring be accomplished?

The easements secured under this project will be managed as part of the MN Board of Water and Soil Resources (BWSR) RIM Reserve Program that has over 7,196 easements currently in place. Easements are monitored annually for each of the first 5 years and then every 3rd year after that. BWSR, in cooperation with Soil and Water Conservation Districts (SWCD), implement a stewardship process to track, monitor quality and assure compliance with easement terms. Under the terms of the Reinvest In Minnesota (RIM) Easement Program, landowners are required to maintain compliance with the easement. A conservation plan is developed with the landowner and maintained as part of each easement. Basic easement compliance costs are borne by the landowner, periodic enhancements may be cost shared from a variety of sources.

Will new trails or roads be developed or improved as a result of the OHF acquisition?

Yes

Describe the types of trails or roads and the allowable uses:

Roads or trails are typically excluded from the easement area if they serve no beneficial purpose to easement maintenance, monitoring, or enforcement. Existing trails and roads are identified during the easement acquisition process. Some roads and trails, such as agricultural field accesses, are allowed to remain.

How will maintenance and monitoring be accomplished?

The easements secured under this project will be managed as part of the MN Board of Water and Soil Resources (BWSR) RIM Reserve Program that has over 7,196 easements currently in place. Easements are monitored annually for each of the first 5 years and then every 3rd year after that. BWSR, in cooperation with Soil and Water Conservation Districts (SWCD), implement a stewardship process to track, monitor quality and assure compliance with easement terms. Under the terms of the Reinvest In Minnesota (RIM) Easement Program, landowners are required to maintain compliance with the easement. A conservation

plan is developed with the landowner and maintained as part of each easement. Basic easement compliance costs are borne by the landowner, periodic enhancements may be cost shared from a variety of sources.

Will the land that you acquire (fee or easement) be restored or enhanced within this proposal's funding and availability?

Yes

Other OHF Appropriation Awards

Have you received OHF dollars in the past through LSOHC?

Yes

| Approp Year | Approp Amount Received | Amount Spent to Date | Leverage Reported in AP | Leverage Realized to Date | Acres Affected in AP | Acres Affected to Date | Complete/Final Report Approved? |
|----------------|------------------------------|----------------------------|-------------------------------|---------------------------------|----------------------------|------------------------------|---------------------------------------|
| 2021 | \$2,335,000 | \$100,000 | - | - | - | 0 | No |
| 2018 | \$1,195,000 | \$200,000 | \$355,000 | \$55,000 | 78 | 0 | No |
| 2017 | \$1,877,000 | \$1,877,000 | \$3,234,500 | \$3,234,500 | 650 | 650 | Yes |

Timeline

| Activity Name | Estimated Completion Date |
|--|-----------------------------|
| Establish local funding source (pre-grant) | June 2023 |
| Contact landowners along stream restoration as part of the | Ongoing through August 2023 |
| acquisition process | |
| Finalize construction plans for the South Branch Buffalo | December 2023 |
| River and Stony Creek projects (pre-grant) | |
| Begin construction | May 2024 |
| Complete land acquisition | August 2025 |
| Complete construction and restoration (South Branch | June 2028 |
| Buffalo River and Stony Creek) | |

Budget

Grand Totals Across All Partnerships

| Item | Funding Request | Antic. Leverage | Leverage Source | Total |
|-----------------------------|-----------------|-----------------|-------------------------------------|--------------|
| Personnel | \$360,200 | - | - | \$360,200 |
| Contracts | \$4,102,000 | \$4,055,000 | Clean Water Fund, | \$8,157,000 |
| | | | NWQI, USFWS | |
| Fee Acquisition w/ | - | - | - | - |
| PILT | | | | |
| Fee Acquisition w/o PILT | - | - | - | - |
| Easement Acquisition | \$3,764,500 | \$900,000 | -, CREP, RIM, Local | \$4,664,500 |
| | | | Tax Levy, DNR FHMP | |
| Easement | \$331,500 | - | - | \$331,500 |
| Stewardship | | | | |
| Travel | \$8,100 | - | - | \$8,100 |
| Professional Services | \$800,000 | \$400,000 | Local Tax Levy, Clean Water Fund | \$1,200,000 |
| Direct Support | \$45,600 | - | - | \$45,600 |
| Services | | | | |
| DNR Land Acquisition | - | - | - | - |
| Costs | | | | |
| Capital Equipment | - | - | - | - |
| Other | \$11,600 | - | - | \$11,600 |
| Equipment/Tools | | | | |
| Supplies/Materials | \$4,500 | - | - | \$4,500 |
| DNR IDP | - | - | - | - |
| Grand Total | \$9,428,000 | \$5,355,000 | - | \$14,783,000 |

Partner: BWSR

Totals

| Item | Funding Request | Antic. Leverage | Leverage Source | Total |
|-----------------------|-----------------|-----------------|-----------------|-------------|
| Personnel | \$360,200 | - | - | \$360,200 |
| Contracts | \$102,000 | - | - | \$102,000 |
| Fee Acquisition w/ | - | - | - | - |
| PILT | | | | |
| Fee Acquisition w/o | - | - | - | - |
| PILT | | | | |
| Easement Acquisition | \$3,764,500 | - | - | \$3,764,500 |
| Easement | \$331,500 | - | - | \$331,500 |
| Stewardship | | | | |
| Travel | \$8,100 | - | - | \$8,100 |
| Professional Services | - | - | - | - |
| Direct Support | \$45,600 | - | - | \$45,600 |
| Services | | | | |
| DNR Land Acquisition | - | - | - | - |
| Costs | | | | |
| Capital Equipment | - | - | - | - |
| Other | \$11,600 | - | - | \$11,600 |
| Equipment/Tools | | | | |
| Supplies/Materials | \$3,500 | - | - | \$3,500 |
| DNR IDP | - | - | - | - |
| Grand Total | \$4,627,000 | - | - | \$4,627,000 |

Personnel

| Position | Annual FTE | Years Working | Funding Request | Antic. Leverage | Leverage Source | Total |
|------------|------------|------------------|--------------------|--------------------|--------------------|-----------|
| Easement | 0.65 | 5.0 | \$360,200 | - | - | \$360,200 |
| Processing | | | | | | |

Partner: BRRWD

Totals

| Item | Funding Request | Antic. Leverage | Leverage Source | Total |
|-------------------------------|-----------------|-----------------|--|--------------|
| Personnel | - | - | - | - |
| Contracts | \$4,000,000 | \$4,055,000 | Clean Water Fund, NWQI, USFWS | \$8,055,000 |
| Fee Acquisition w/ PILT | - | - | - | - |
| Fee Acquisition w/o PILT | - | - | - | - |
| Easement Acquisition | - | \$900,000 | CREP, RIM, Local Tax Levy, DNR FHMP | \$900,000 |
| Easement Stewardship | - | - | - | - |
| Travel | - | - | - | - |
| Professional Services | \$800,000 | \$400,000 | Local Tax Levy, Clean Water Fund | \$1,200,000 |
| Direct Support Services | - | - | - | - |
| DNR Land Acquisition Costs | - | - | - | - |
| Capital Equipment | - | - | - | - |
| Other | - | - | - | - |
| Equipment/Tools | | | | |
| Supplies/Materials | \$1,000 | - | - | \$1,000 |
| DNR IDP | - | - | - | - |
| Grand Total | \$4,801,000 | \$5,355,000 | - | \$10,156,000 |

Amount of Request: \$9,428,000 **Amount of Leverage:** \$5,355,000

Leverage as a percent of the Request: 56.8%

DSS + Personnel: \$405,800

As a % of the total request: 4.3% Easement Stewardship: \$331,500

As a % of the Easement Acquisition: 8.81%

Describe and explain leverage source and confirmation of funds:

The BRRWD is coordinating with BWSR and landowners to utilize programs (CREP, RIM) to implement the project to the extent possible. These funds have not been confirmed. The Watershed District has tax levy authority to raise some project funding as well.

Does this proposal have the ability to be scalable?

Yes

If the project received 70% of the requested funding

Describe how the scaling would affect acres/activities and if not proportionately reduced, why? Reduced funding will limit the length of stream restoration and acres of conservation easement work. Restoration reaches would be shortened by more than 30%. As funding allows, additional stream restoration work will occur upstream or downstream. The BRRWD will continue to look for additional funding to stretch what LSOHC provides.

Describe how personnel and DSS expenses would be adjusted and if not proportionately reduced, why?

Reduced funding will limit the number of completed easements. The number of easements would be reduced by approximately 30%. As funding allows, additional easements would be completed. The BRRWD will continue to look for additional funding to stretch what LSOHC provides.

If the project received 50% of the requested funding

Describe how the scaling would affect acres/activities and if not proportionately reduced, why? Reduced funding will limit the length of stream restoration and acres of conservation easement work. Restoration reaches would be shortened by more than 50%. As funding allows, additional stream restoration work will occur upstream or downstream. The BRRWD will continue to look for additional funding to stretch what LSOHC provides.

Describe how personnel and DSS expenses would be adjusted and if not proportionately reduced, why?

Reduced funding will limit the number of completed easements. The number of easements would be reduced by approximately 50%. As funding allows, additional easements would be completed. The BRRWD will continue to look for additional funding to stretch what LSOHC provides.

Personnel

Has funding for these positions been requested in the past?

No

Contracts

What is included in the contracts line?

Restoration and enhancement work to include the implementation of the project, including 9.5 miles of stream restoration and over 1,084 acres of associated riparian habitat to be acquired and restored. The contract line will also be used for payments to SWCD staff for easement implementation.

Easement Stewardship

What is the number of easements anticipated, cost per easement for stewardship, and explain how that amount is calculated?

Perpetual monitoring and enforcement costs have been calculated at \$6,500 per easement. This value is based on using local SWCD staff for monitoring and landowner relations and existing enforcement authorities. The amount listed for easement stewardship covers cost of the SWCD regular monitoring, BWSR oversight and any enforcement necessary.

Travel

Does the amount in the travel line include equipment/vehicle rental?

No

Explain the amount in the travel line outside of traditional travel costs of mileage, food, and lodging

The travel line will only be used for traditional costs with the addition of vehicle lease costs that are directly attributable to work completed with this appropriation. It is estimated that lease costs may amount to approximately 40% of travel costs for this appropriation.

I understand and agree that lodging, meals, and mileage must comply with the current MMB Commissioner Plan:

Yes

Direct Support Services

How did you determine which portions of the Direct Support Services of your shared support services is direct to this program?

BWSR calculates direct support services costs that are directly related to and necessary for each request based on the type of work being done.

Other Equipment/Tools

Give examples of the types of Equipment and Tools that will be purchased? Signs, posts and field equipment.

Federal Funds

Do you anticipate federal funds as a match for this program?

Yes

Are the funds confirmed?

No

What is the approximate date you anticipate receiving confirmation of the federal funds? 12/31/2022

Output Tables

Acres by Resource Type (Table 1)

| Type | Wetland | Prairie | Forest | Habitat | Total Acres |
|--|---------|---------|--------|---------|--------------------|
| Restore | 0 | 0 | 0 | 0 | 0 |
| Protect in Fee with State PILT Liability | 0 | 0 | 0 | 0 | 0 |
| Protect in Fee w/o State PILT Liability | 0 | 0 | 0 | 0 | 0 |
| Protect in Easement | 0 | 974 | 0 | 110 | 1,084 |
| Enhance | 0 | - | 0 | - | 0 |
| Total | 0 | 974 | 0 | 110 | 1,084 |

Total Requested Funding by Resource Type (Table 2)

| Type | Wetland | Prairie | Forest | Habitat | Total Funding |
|--|---------|-------------|--------|-------------|---------------|
| Restore | - | ı | ı | ı | - |
| Protect in Fee with State PILT Liability | - | - | - | - | - |
| Protect in Fee w/o State PILT Liability | - | - | - | - | - |
| Protect in Easement | - | \$4,627,000 | - | \$4,801,000 | \$9,428,000 |
| Enhance | - | - | - | - | - |
| Total | - | \$4,627,000 | • | \$4,801,000 | \$9,428,000 |

Acres within each Ecological Section (Table 3)

| Туре | Metro/Urban | Forest/Prairie | SE Forest | Prairie | N. Forest | Total Acres |
|--|-------------|----------------|-----------|---------|-----------|-------------|
| Restore | 0 | 0 | 0 | 0 | 0 | 0 |
| Protect in Fee with State PILT Liability | 0 | 0 | 0 | 0 | 0 | 0 |
| Protect in Fee w/o State PILT Liability | 0 | 0 | 0 | 0 | 0 | 0 |
| Protect in Easement | 0 | 0 | 0 | 1,084 | 0 | 1,084 |
| Enhance | 0 | 0 | 0 | - | 0 | 0 |
| Total | 0 | 0 | 0 | 1,084 | 0 | 1,084 |

Total Requested Funding within each Ecological Section (Table 4)

| Туре | Metro/Urban | Forest/Prairie | SE Forest | Prairie | N. Forest | Total Funding |
|---|-------------|----------------|-----------|-------------|-----------|------------------|
| Restore | - | - | - | ı | - | - |
| Protect in Fee with State PILT Liability | - | - | - | 1 | 1 | - |
| Protect in Fee w/o State PILT Liability | - | - | - | - | - | - |
| Protect in Easement | - | - | - | \$9,428,000 | - | \$9,428,000 |
| Enhance | - | - | - | - | - | - |
| Total | - | - | - | \$9,428,000 | - | \$9,428,000 |

Average Cost per Acre by Resource Type (Table 5)

| Type | Wetland | Prairie | Forest | Habitat |
|--|---------|---------|--------|----------|
| Restore | - | 1 | - | - |
| Protect in Fee with State PILT Liability | - | ı | ı | - |
| Protect in Fee w/o State PILT Liability | - | ı | 1 | - |
| Protect in Easement | - | \$4,750 | ı | \$43,645 |
| Enhance | - | ı | ı | - |

Average Cost per Acre by Ecological Section (Table 6)

| Туре | Metro/Urban | Forest/Prairie | SE Forest | Prairie | N. Forest |
|---------------------------|-------------|----------------|-----------|---------|-----------|
| Restore | - | - | - | - | - |
| Protect in Fee with State | - | - | - | - | - |
| PILT Liability | | | | | |

| Protect in Fee w/o State PILT Liability | - | - | - | - | - |
|--|---|---|---|---------|---|
| Protect in Easement | - | - | - | \$8,697 | - |
| Enhance | - | - | - | - | - |

Target Lake/Stream/River Feet or Miles

9.5

Outcomes

Programs in prairie region:

• Protected, restored, and enhanced habitat for migratory and unique Minnesota species ~ *Project outcomes* are measured by the total acres of acquired and restored riparian habitat, in addition to the total stream miles restored.

Parcels

Sign-up Criteria?

No

Explain the process used to identify, prioritize, and select the parcels on your list:

While numerous reaches in the BRRWD are identified, the South Branch Buffalo River and Stony Creek restoration reaches are being prioritized for implementation. These projects are nearly shovel ready and will be by the time LSOHC funding is available. Significant benefits to habitat, water quality, and flood damage reduction are expected by these projects.

Restore / Enhance Parcels

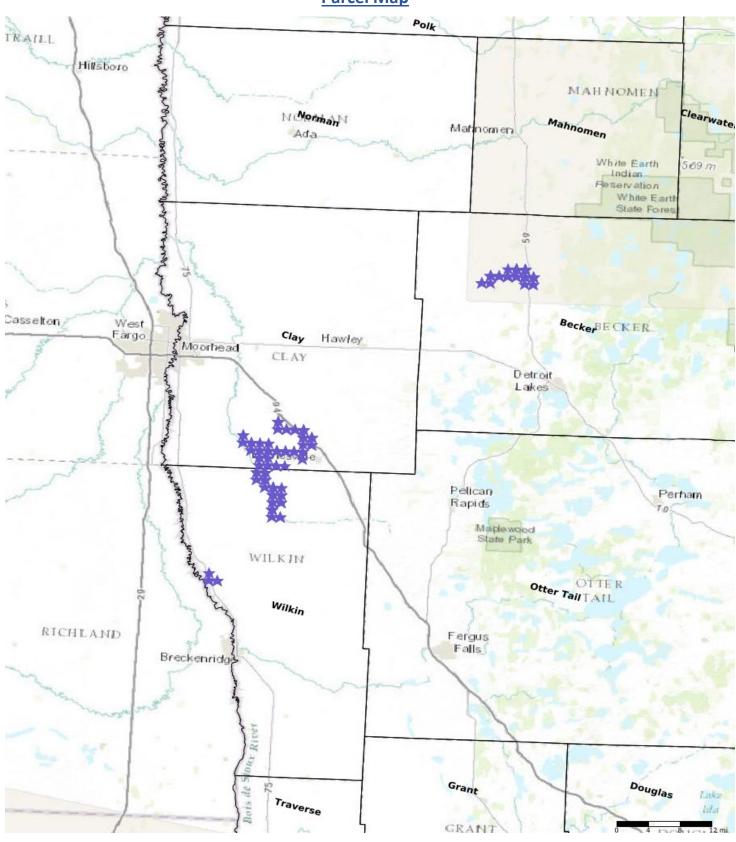
| Name | County | TRDS | Acres | Est Cost | Existing |
|-------------|--------|----------|-------|----------|------------|
| | | | | | Protection |
| 23.0106.000 | Becker | 14142220 | 0 | \$0 | No |
| 04.0031.000 | Becker | 14141207 | 5 | \$0 | No |
| 04.0034.000 | Becker | 14141207 | 22 | \$0 | No |
| 04.0035.000 | Becker | 14141207 | 4 | \$0 | No |
| 04.0036.000 | Becker | 14141207 | 3 | \$0 | No |
| 04.0038.000 | Becker | 14141207 | 37 | \$0 | No |
| 23.0048.000 | Becker | 14142211 | 24 | \$0 | No |
| 23.0052.000 | Becker | 14142212 | 37 | \$0 | No |
| 23.0053.000 | Becker | 14142212 | 3 | \$0 | No |
| 23.0054.000 | Becker | 14142212 | 2 | \$0 | No |
| 23.0054.001 | Becker | 14142212 | 1 | \$0 | No |
| 23.0055.000 | Becker | 14142212 | 15 | \$0 | No |
| 23.0055.001 | Becker | 14142212 | 5 | \$0 | No |
| 23.0056.000 | Becker | 14142212 | 26 | \$0 | No |
| 23.0056.001 | Becker | 14142212 | 33 | \$0 | No |
| 23.0060.000 | Becker | 14142213 | 12 | \$0 | No |
| 23.7018.001 | Becker | 14142214 | 0 | \$0 | No |
| 04.0033.000 | Becker | 14141207 | 10 | \$0 | No |
| 04.0036.000 | Becker | 14141207 | 0 | \$0 | No |
| 04.0038.000 | Becker | 14141207 | 46 | \$0 | No |
| 04.0084.001 | Becker | 14141217 | 0 | \$0 | No |
| 04.0084.002 | Becker | 14141217 | 1 | \$0 | No |
| 04.0085.000 | Becker | 14141217 | 3 | \$0 | No |
| 04.0089.000 | Becker | 14141217 | 14 | \$0 | No |
| 04.0090.000 | Becker | 14141218 | 8 | \$0 | No |
| 04.0090.001 | Becker | 14141218 | 15 | \$0 | No |
| 04.0091.000 | Becker | 14141218 | 23 | \$0 | No |
| 04.0092.000 | Becker | 14141218 | 19 | \$0 | No |
| 04.0092.003 | Becker | 14141218 | 0 | \$0 | No |
| 04.0093.000 | Becker | 14141218 | 17 | \$0 | No |
| 04.0094.000 | Becker | 14141218 | 0 | \$0 | No |
| 04.0094.001 | Becker | 14141218 | 9 | \$0 | No |
| 04.0098.000 | Becker | 14141219 | 0 | \$0 | No |
| 04.0101.000 | Becker | 14141220 | 2 | \$0 | No |
| 04.0103.000 | Becker | 14141220 | 25 | \$0 | No |
| 04.8901.000 | Becker | 14141218 | 3 | \$0 | No |
| 23.0055.000 | Becker | 14142212 | 2 | \$0 | No |
| 23.0055.001 | Becker | 14142212 | 45 | \$0 | No |
| 23.0056.001 | Becker | 14142212 | 11 | \$0 | No |
| 23.0060.000 | Becker | 14142213 | 19 | \$0 | No |
| 23.0063.000 | Becker | 14142214 | 39 | \$0 | No |

| _ | 1 | | | | posal #: HA05 |
|-------------|--------|----------|----|-------------|---------------|
| 23.0066.000 | Becker | 14142215 | 19 | \$0 | No |
| 23.0068.000 | Becker | 14142215 | 21 | \$0 | No |
| 23.0069.000 | Becker | 14142215 | 4 | \$0 | No |
| 23.0075.000 | Becker | 14142216 | 12 | \$0 | No |
| 23.0077.000 | Becker | 14142216 | 30 | \$0 | No |
| 23.0078.000 | Becker | 14142216 | 0 | \$0 | No |
| 23.0080.000 | Becker | 14142216 | 16 | \$0 | No |
| 23.0105.000 | Becker | 14142220 | 0 | \$0 | No |
| 23.7022.000 | Becker | 14142215 | 33 | \$0 | No |
| 23.7021.000 | Becker | 14142214 | 1 | \$0 | No |
| 23.7020.000 | Becker | 14142214 | 0 | \$0 | No |
| 23.7018.001 | Becker | 14142214 | 0 | \$0 | No |
| 23.7018.000 | Becker | 14142214 | 20 | \$0 | No |
| 23.7017.000 | Becker | 14142214 | 17 | \$0 | No |
| 23.7015.000 | Becker | 14142213 | 10 | \$0 | No |
| 23.0108.000 | Becker | 14142221 | 61 | \$0 | No |
| 02.011.4702 | Clay | 13746211 | 11 | \$97,066 | No |
| 02.020.1101 | Clay | 13746220 | 24 | \$0 | No |
| 02.020.1000 | Clay | 13746220 | 19 | \$0 | No |
| 02.019.1500 | Clay | 13746219 | 38 | \$0 \$0 | No |
| 02.019.1101 | Clay | 13746219 | 4 | \$0 \$0 | No |
| 02.019.0101 | Clay | 13746219 | 16 | \$0 \$0 | No |
| 02.019.0200 | Clay | 13746218 | 39 | \$0 \$0 | No |
| | | | | \$0 \$0 | |
| 01.036.1100 | Clay | 13747236 | 2 | • | No |
| 01.036.0100 | Clay | 13747236 | 25 | \$0 | No |
| 01.025.4600 | Clay | 13747225 | 1 | \$0 | No |
| 01.025.4000 | Clay | 13747225 | 39 | \$0 | No |
| 01.025.1000 | Clay | 13747225 | 41 | \$0 | No |
| 01.024.4000 | Clay | 13747224 | 15 | \$0 | No |
| 01.024.0000 | Clay | 13747224 | 49 | \$0 | No |
| 01.023.4002 | Clay | 13747223 | 8 | \$0 | No |
| 01.023.4000 | Clay | 13747223 | 16 | \$0 | No |
| 01.023.2201 | Clay | 13747223 | 2 | \$0 | No |
| 01.023.0100 | Clay | 13747223 | 53 | \$0 | No |
| 01.015.2000 | Clay | 13747215 | 2 | \$0 | No |
| 01.015.1000 | Clay | 13747215 | 48 | \$0 | No |
| 01.015.0300 | Clay | 13747215 | 9 | \$0 | Yes |
| 01.014.3000 | Clay | 13747214 | 31 | \$0 | No |
| 01.014.2000 | Clay | 13747214 | 1 | \$0 | No |
| 01.013.4700 | Clay | 13747213 | 2 | \$0 | No |
| 01.010.4001 | Clay | 13747210 | 3 | \$0 | No |
| 01.010.3770 | Clay | 13747210 | 3 | \$0 | No |
| 02.013.2500 | Clay | 13746213 | 6 | \$0 | No |
| 05.032.3700 | Clay | 13846232 | 1 | \$0 | No |
| 05.032.3500 | Clay | 13846232 | 1 | \$0 | No |
| 02.012.3500 | Clay | 13746212 | 18 | \$0 | No |
| 02.011.1800 | Clay | 13746211 | 5 | \$0 | No |
| 02.005.1000 | Clay | 13746205 | 6 | \$0 | No |
| 02.004.2000 | Clay | 13746204 | 41 | \$0 | No |
| 02.003.0100 | Clay | 13746203 | 42 | \$0 \$0 | No |
| 02.003.0300 | Clay | 13746203 | 9 | \$0 | No |
| 02.002.3100 | Clay | 13746202 | 0 | \$0 | No |
| 02.002.4401 | Clay | 13746202 | 1 | \$0 | No |
| 02.011.1600 | Clay | 13746211 | 41 | \$0 \$0 | No |
| 02.011.1000 | Clay | 13746211 | 7 | \$0 \$0 | No |
| 02.011.4701 | Clay | 13746214 | 0 | \$0 \$0 | No |
| 02.014.0170 | Clay | 13746213 | 2 | \$0 \$0 | No |
| 04.013.4400 | Liay | 13/40213 | | \$ 0 | INO |

| | | , | | | posal #: HA05 |
|-------------|--------|----------|----|------------|---------------|
| 02.000.0050 | Clay | 13746212 | 3 | \$0 | No |
| 02.002.3700 | Clay | 13746202 | 31 | \$273,550 | No |
| 02.000.0050 | Clay | 13746212 | 1 | \$7,806 | No |
| 05.032.4000 | Clay | 13846232 | 37 | \$313,916 | No |
| 02.004.1000 | Clay | 13746204 | 41 | \$360,774 | No |
| 02.013.9001 | Clay | 13746213 | 0 | \$0 | No |
| 02.005.1801 | Clay | 13746205 | 20 | \$168,341 | No |
| 02.002.3200 | Clay | 13746202 | 12 | \$105,890 | No |
| 02.003.0310 | Clay | 13746203 | 37 | \$293,923 | No |
| 02.060.0101 | Clay | 13746220 | 1 | \$0 | No |
| 02.033.2060 | Clay | 13746233 | 0 | \$0 | No |
| 02.032.3000 | Clay | 13746232 | 1 | \$0 | No |
| 02.032.2000 | Clay | 13746232 | 32 | \$0 | No |
| 02.032.1000 | Clay | 13746232 | 31 | \$0 | No |
| 02.031.3000 | Clay | 13746231 | 22 | \$0 | No |
| 02.031.2002 | Clay | 13746231 | 0 | \$0 | No |
| 02.031.2001 | Clay | 13746231 | 1 | \$0 | No |
| 02.031.2000 | Clay | 13746231 | 25 | \$0 | No |
| 02.031.0400 | Clay | 13746231 | 64 | \$0 | No |
| 02.030.0300 | Clay | 13746230 | 6 | \$0 | No |
| 02.026.2000 | Clay | 13746226 | 1 | \$0 | No |
| 02.023.3701 | Clay | 13746223 | 30 | \$0 | No |
| 02.023.3001 | Clay | 13746223 | 8 | \$0 | No |
| 02.023.3001 | Clay | 13746222 | 20 | \$0 \$0 | Yes |
| 02.022.4400 | Clay | 13746222 | 13 | \$0 \$0 | Yes |
| 02.022.3000 | Clay | 13746222 | 30 | \$0 \$0 | No |
| | | | | | |
| 02.021.4330 | Clay | 13746221 | 1 | \$0 | No |
| 02.021.4000 | Clay | 13746221 | 15 | \$0 | No |
| 02.021.2000 | Clay | 13746221 | 47 | \$0 | No |
| 02.021.1800 | Clay | 13746221 | 3 | \$0 | No |
| 02.020.2201 | Clay | 13746220 | 28 | \$0 | No |
| 02.020.2000 | Clay | 13746220 | 19 | \$0 | No |
| 12.005.0300 | Wilkin | 13546205 | 23 | \$193,599 | Yes |
| 12.005.0200 | Wilkin | 13546205 | 13 | \$114,587 | Yes |
| 12.006.0100 | Wilkin | 13546206 | 44 | \$375,790 | Yes |
| 12.006.0100 | Wilkin | 13546206 | 1 | \$8,795 | Yes |
| 03.017.0430 | Wilkin | 13646217 | 1 | \$4,397 | No |
| 03.018.0500 | Wilkin | 13646218 | 18 | \$149,039 | No |
| 03.018.0400 | Wilkin | 13646218 | 24 | \$208,705 | No |
| 03.018.0110 | Wilkin | 13646218 | 3 | \$27,438 | Yes |
| 03.018.0100 | Wilkin | 13646218 | 36 | \$311,089 | Yes |
| 03.018.0200 | Wilkin | 13646218 | 64 | \$550,376 | Yes |
| 03.020.0300 | Wilkin | 13646220 | 51 | \$416,804 | Yes |
| 03.019.0500 | Wilkin | 13646219 | 10 | \$86,945 | No |
| 03.019.0115 | Wilkin | 13646219 | 2 | \$16,582 | No |
| 03.019.0110 | Wilkin | 13646219 | 0 | \$291 | No |
| 03.020.0200 | Wilkin | 13646220 | 29 | \$240,457 | Yes |
| 03.019.0100 | Wilkin | 13646219 | 34 | \$291,134 | No |
| 03.030.0400 | Wilkin | 13646230 | 45 | \$361,785 | Yes |
| 03.029.0500 | Wilkin | 13646229 | 24 | \$200,466 | No |
| 03.029.0400 | Wilkin | 13646229 | 9 | \$80,284 | No |
| 03.030.0100 | Wilkin | 13646230 | 7 | \$56,290 | Yes |
| 03.029.0310 | Wilkin | 13646229 | 4 | \$35,756 | No |
| 03.029.0300 | Wilkin | 13646229 | 8 | \$67,971 | No |
| 03.031.0400 | Wilkin | 13646231 | 17 | \$138,559 | Yes |
| 03.031.0500 | Wilkin | 13646231 | 11 | \$88,694 | Yes |
| 03.031.0100 | Wilkin | 13646231 | 33 | \$289,240 | Yes |
| | | | | | |

| 03.031.0200 | Wilkin | 13646231 | 8 | \$62,605 | Yes |
|-------------|--------|----------|----|-----------|-----|
| 03.031.0300 | Wilkin | 13646231 | 0 | \$949 | No |
| 10.012.0300 | Wilkin | 13647212 | 52 | \$474,062 | No |
| 10.012.0400 | Wilkin | 13647212 | 74 | \$663,185 | Yes |
| 10.012.0210 | Wilkin | 13647212 | 0 | \$0 | No |
| 10.011.0100 | Wilkin | 13647211 | 18 | \$165,818 | Yes |
| 10.012.0220 | Wilkin | 13647212 | 15 | \$137,575 | Yes |
| 10.012.0100 | Wilkin | 13647212 | 18 | \$165,818 | Yes |
| 10.011.0300 | Wilkin | 13647211 | 6 | \$51,877 | No |
| 10.013.0100 | Wilkin | 13647213 | 21 | \$188,383 | No |
| 10.013.0100 | Wilkin | 13647213 | 1 | \$7,787 | No |
| 10.001.0500 | Wilkin | 13647201 | 31 | \$270,556 | Yes |
| 10.002.0400 | Wilkin | 13647202 | 50 | \$460,982 | Yes |
| 10.001.0300 | Wilkin | 13647201 | 2 | \$21,146 | Yes |
| 10.002.0100 | Wilkin | 13647202 | 21 | \$196,492 | No |
| 10.002.0200 | Wilkin | 13647202 | 33 | \$308,252 | No |
| 10.012.0200 | Wilkin | 13647212 | 35 | \$316,149 | Yes |
| 17.019.0400 | Wilkin | 13447219 | 32 | \$0 | No |
| 17.019.0300 | Wilkin | 13447219 | 7 | \$0 | No |
| 13.024.0110 | Wilkin | 13448224 | 11 | \$0 | No |
| 13.024.0600 | Wilkin | 13448224 | 4 | \$0 | No |
| 13.024.0200 | Wilkin | 13448224 | 4 | \$0 | No |
| 13.024.0100 | Wilkin | 13448224 | 13 | \$0 | No |
| 13.013.0510 | Wilkin | 13448213 | 1 | \$0 | No |

Parcel Map













Buffalo River Watershed Stream Habitat Program—Phase 3

Project Background & Scope

Throughout the last century, channel straightening efforts and poor field practices have significantly reduced the habitat quality within the Buffalo-Red River Watershed District (BRRWD). Channel straightening efforts have eliminated hundreds of acres of quality stream habitat. Straightened channels create homogenous habitats that no longer have the shallow riffles and deeper pools that are required by fish at various stages in their life cycle. The straightened reaches also tend to lose access to their floodplains which increases erosion in the channel and causes downstream flooding. In addition, aggradation of the downstream channel, due to increased sediment loading, reduces habitat quality and makes flooding worse.

Over the last several years, the BRRWD—with input and in partnership with landowners, federal, state, and local agencies—designed comprehensive subwatershed restoration plans and intends to implement these plans over the next several years. A component of these plans includes the restoration of numerous reaches of straightened and abandoned creek and river channels throughout the Watershed District. Prioritization of projects is largely based on ecological benefits, being shovel-ready and having landowner and other stakeholder support.

In the third phase of this multi-phase project, the BRRWD plans to restore 4.2 miles of the South

Branch Buffalo River with 894 acres associated riparian habitat corridor, and 5.1 miles of the Stony Creek with 190-acres associated riparian habitat corridor. Requiring land often creates time constraints and delays project progress. To ensure timely progress on proposed and future phases of these projects, easement acquisition for additional future phases are considered in this proposal.

The South Branch Buffalo River and Stony Creek will be restored using natural channel design principles. The river restorations have been designed with direct input from the Minnesota Department of Natural Resources (DNR) River Ecology Unit as well as the Minnesota Board of Water and Soil Resources (BWSR).

A sinuous riffle-pool natural channel design is proposed to recreate the aquatic habitat diversity that was lost in the straightened channel. The naturally stable restored channel will not only recreate lost habitat but will reduce the current erosion that is overloading downstream reaches of the South Branch Buffalo River and Stony Creek.

The easement acquisition part of this project is proposed to be completed using the Reinvest in Minnesota project implemented by BWSR. As part of their comprehensive subwatershed planning process, the District has completed planning and design on three additional stream reaches that are included as part of this application package.

These include the restoration of Whisky Creek (14.5 miles), Whiskey Creek, its south tributary (1.18 miles, Phase 4), and the Upper Buffalo River (16 miles) and their associated riparian corridors. Additional stream restoration enhancement along the Whisky Creek, Whiskey Creek, and the Upper Buffalo River will be completed as funding permits when and if additional sources of match funding become available.

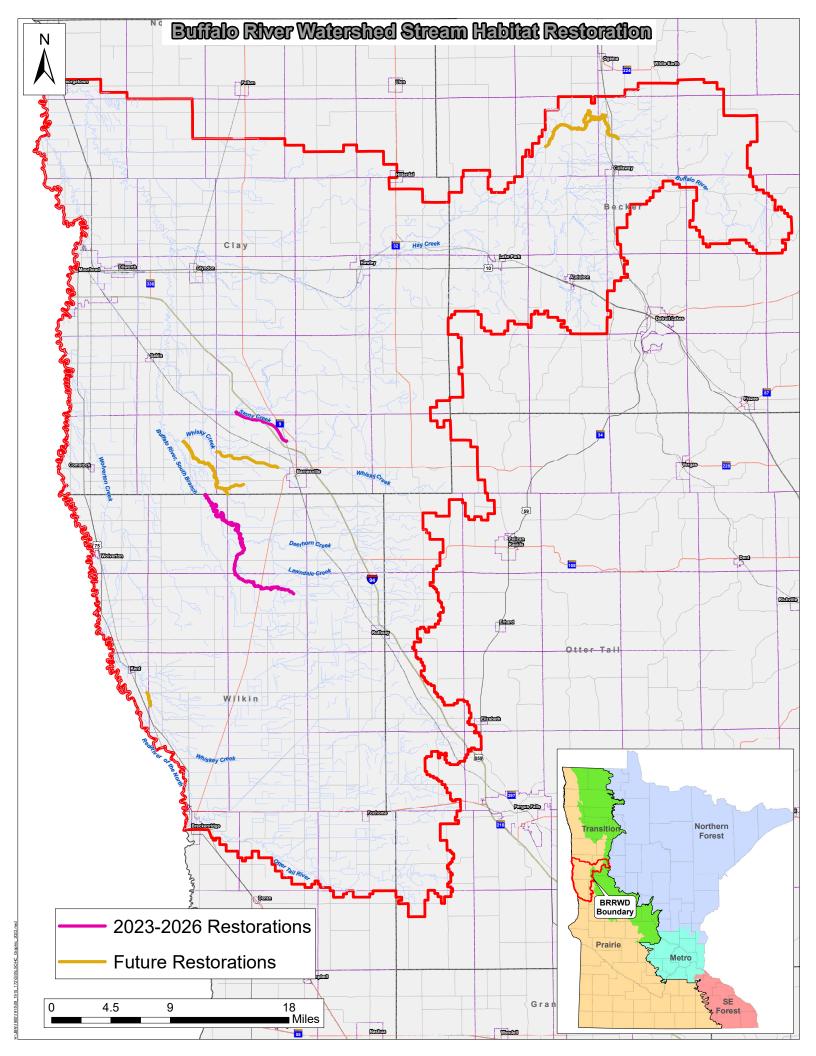
Combined, these comprehensive projects have the potential to restore and enhance more than 32 miles of natural prairie stream. Ultimately, over 1,750 acres of stream, river, floodplain, wetland, and grassland habitat along these restoration reaches will be protected and restored.

Outcomes/Benefits

- Over 1,084 acres of permanently protected, restored, and enhanced riparian prairie habitat
- 9.5 miles of restored stable natural meandering stream with functional floodplain
- Restored hydrology for riparian wetlands and uplands
- · Runoff Reduction
- Improved water quality

Timeline







May 19, 2022

Kristine Altrichter Administrator **Buffalo-Red River Watershed District** 1303 4th Ave NE Barnesville, MN 56514

Dear Ms. Altrichter,

BWSR is pleased to partner with BRRWD on the Stream Habitat Program and application to the Lessard Sams Outdoor Heritage Council using the RIM Reserve easement program.

We look forward to working with you on this important project to restore habitat along portions of the South Branch Buffalo River, Stony Creek, Upper Buffalo River, Whisky Creek and Whiskey Creek.

Sincerely,

Sharon Doucette

Sharm Doncette

Conservation Easement Section Manager

CC: Bennett Uhler, Erik Jones, Tyson Jeannotte, Houston Engineering John Voz

www.bwsr.state.mn.us

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