

**Environment and Natural Resources Trust Fund
2020 Request for Proposals (RFP)**

Project Title:

ENRTF ID: 031-A

Morrison County Performance Drainage and Hydrology Management Phase II

Category: A. Foundational Natural Resource Data and Information

Sub-Category:

Total Project Budget: \$ 213,300

Proposed Project Time Period for the Funding Requested: June 30, 2023 (3 yrs)

Summary:

This proposal, when funded, will enable Morrison SWCD to inventory an additional 4,000 culverts to complete the county wide culvert inventory started in 2016.

Name: Shannon Wettstein

Sponsoring Organization: Morrison SWCD

Job Title: District Manager

Department: _____

Address: 16776 Heron Road

Little Falls MN 56345

Telephone Number: (320) 631-3553

Email shannon.wettstein@morrisonswcd.org

Web Address: www.morrisonswcd.org

Location:

Region: Central

County Name: Morrison

City / Township: Little Falls

Alternate Text for Visual:

Inventory culverts within Morrison County, specifically township road centerline and private driveways, culverts along the Soo Line Trail and select culverts in and around Camp Ripley.

_____ Funding Priorities	_____ Multiple Benefits	_____ Outcomes	_____ Knowledge Base
_____ Extent of Impact	_____ Innovation	_____ Scientific/Tech Basis	_____ Urgency
_____ Capacity Readiness	_____ Leverage	_____ TOTAL	_____ %



PROJECT TITLE: Morrison County Performance Drainage and Hydrology Management Phase II

PROJECT STATEMENT:

This proposal, when funded, will enable Morrison SWCD to inventory an additional 4,000 culverts to complete the county wide culvert inventory started in 2016. This information will then be shared with local road authorities and resource professionals to help solve landowner conflicts and prioritize infrastructure maintenance all while protecting water quality and ensuring road safety.

Morrison SWCD historically has taken the lead in managing drainage, county wide, through the administration of the Wetland Conservation Act (WCA) guiding private landowners and the local road authorities through WCA laws and regulation relating to ditching and draining. This leadership role was taken a step further when in 2016, the district was awarded a LCCMR grant to hire a hydrology technician and conduct an initial culvert inventory along township roads. This previous grant supported the completion of two thirds of the counties township centerline and driveway culverts. Due to the sheer amount of culverts and the time necessary to inventory them the previous grant was not sufficient to complete the entire county. This phase two grant would complete the ten remaining townships and expand to include two additional areas of drainage infrastructure which were not previously considered in the 2016 grant but are critical to understand drainage hydrology at a county scale. The additional areas include select culverts in and around Camp Ripley, a 53,000 acre Army National Guard training facility located in Morrison County which contributes a large watershed and the second additional area is the 38 mile Soo Line Trail which bisects Morrison County.

Morrison County, like other agricultural counties, has experienced a vast increase in drainage. Thousands of acres are being tilled with no approval or oversight. The water moving across the landscape has altered drainage capacity of county and township roads, as well as created major conflict between neighbors and road authorities' due to impacts of standing water on agricultural fields and topping of public roads. Morrison SWCD is committed to serving the public through a leadership role in managing drainage and sharing a more complete understanding of drainage infrastructure within the county. This information will assist local authorities in making decisions about upcoming project areas based on complete hydrology and storm water information. This work will not only save taxpayer money and reduce conflict between landowners but ultimately improve public safety and water quality.

II. PROJECT ACTIVITIES AND OUTCOMES:

Activity 1 Title: Inventory culverts within Morrison County, specifically township road centerline and private driveways, culverts along the Soo Line Trail and select culverts in and around Camp Ripley.

Description: Complete township centerline and driveway culverts in ten townships along with two additional (not previously considered in Phase I) areas need to be inventoried in order to comprehend the hydrology and storm water management for the county. The remaining townships include Parker, Ripley, Pulaski, Buh, Granite, Bellevue, Buckman, Morrill, Lakin and Swanville Townships. The additional areas include select culverts in and around Camp Ripley, a 53,000 acre Army National Guard training facility located in Morrison County which contributes a large watershed and the second is the 38 mile Soo Line Trail which bisects Morrison County.

The hydrology technician afforded through this capacity funding would work with township and county road authorities as well as Camp Ripley to identify culvert locations so drainage infrastructure can be inventoried. Inventory data as well as watershed and safety prioritization rankings will be shared with the appropriate townships, Morrison County, DNR, Camp Ripley and FEMA. The dataset will then be published for public access on the Morrison County Beacon GIS map.



**Environment and Natural Resources Trust Fund (ENRTF)
2020 Main Proposal Template**

ENRTF BUDGET: \$213,300

Outcome	Completion Date
<i>1. Conduct culvert inventories on approximately 4,000 culverts (~3,700 township's centerline and private driveway culverts, ~100 Soo Line Trail culverts and ~200 culverts in and around the 53,000 acre Camp Ripley)</i>	<i>October 31, 2022</i>
<i>2. Create and maintain a database of all culvert elevations throughout the county</i>	<i>October 31, 2022</i>
<i>3. Provide updated culvert inventory data to Morrison County for publication on Morrison County Beacon GIS</i>	<i>June 30, 2023</i>
<i>4. Prioritize and rank inventory work based on watershed and safety considerations</i>	<i>June 30, 2023</i>
<i>5. Provide updated culvert inventory data and prioritization suggestions to road authorities at the Township and County level as well as Camp Ripley, DNR and FEMA</i>	<i>June 30, 2023</i>

III. PROJECT PARTNERS AND COLLABORATORS: Partners NOT receiving ENRTF funding

Name	Title	Affiliation	Role
Morrison County	Public Works, Land Services & GIS Depts.	Partner	In Kind Support; Secondary
Parker, Ripley, Pulaski, Buh, Granite, Bellevue, Buckman, Morrill, Lakin and Swanville Townships	Township Road Authorities	Partner	In Kind Support; Secondary
Department of Military Affairs (DMA)	Camp Ripley Env. Services	Partner	In Kind Support; Secondary

IV. LONG-TERM IMPLEMENTATION AND FUNDING: Once the drainage inventory is complete Morrison SWCD will continue to staff a hydrology technician in-house for assistance to township officials, Morrison County, landowners and Camp Ripley as requested and work with each of these entities to keep the inventory up to date. The hydrology technician would also offer technical assistance by helping to design control structures on drainage systems (both tiling and ditching), assist road authorities with drainage designs and oversee tiling designs to assure tile systems are more efficient and do not negatively impact roads, neighboring properties, or impact surface waters with nutrient loads. Ongoing culvert inventory data would be maintained by Morrison SWCD and would be accessible electronically through the Morrison County Beacon GIS system. This completed inventory will also allow other staff and partners to develop hydrology restoration priorities at the HUC 12 watershed level.

Long-term support for the position will come from SWCD Local Capacity funds currently sourced through the Clean Water Fund. This funding provides grants to Soil and Water Conservation Districts that focuses on increasing capacity to address four resource concern areas: Soil Erosion, Riparian Zone Management, Water Storage and Treatment, and Excess Nutrients.

V. SEE ADDITIONAL PROPOSAL COMPONENTS:

- A. Proposal Budget Spreadsheet**
- B. Visual Component or Map**
- C. Project Manager Qualifications and Organization Description**
- D. Resolution**
- E. Letters of Support**

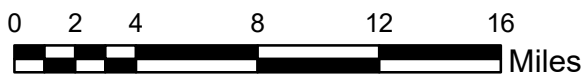
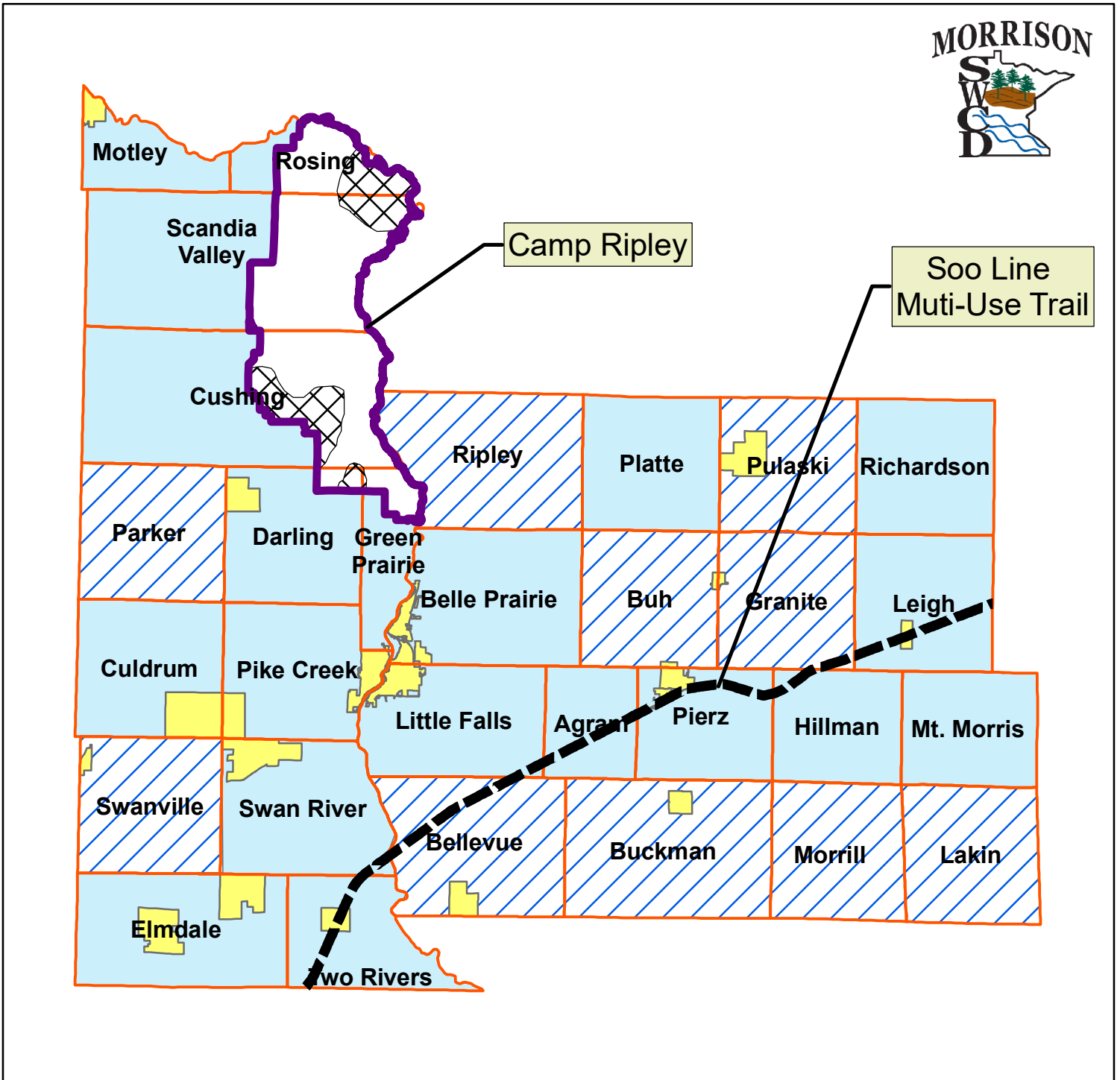
Attachment A: Project Budget Spreadsheet
 Environment and Natural Resources Trust Fund
 M.L. 2020 Budget Spreadsheet



Legal Citation:
 Project Manager: Shannon Wettstein
 Project Title: Morrison County Performance Drainage and Hydrology Management Phase II
 Organization: Morrison Soil and Water Conservation District
 Project Budget: \$213,300
 Project Length and Completion Date: June 30, 2023
 Today's Date: April 2, 2019

ENVIRONMENT AND NATURAL RESOURCES TRUST FUND BUDGET		Budget	Amount Spent	Balance
BUDGET ITEM				
Personnel (Wages and Benefits)		\$ 204,000	\$ -	\$ 204,000
Hydrology Technician, \$68,000 (70% salary, 30% benefits, 1 FTE each year for three years totalling \$204,000)				
Professional/Technical/Service Contracts				
		\$ -	\$ -	\$ -
Equipment/Tools/Supplies				
		\$ -	\$ -	\$ -
Capital Expenditures Over \$5,000				
		\$ -	\$ -	\$ -
Fee Title Acquisition				
		\$ -	\$ -	\$ -
Easement Acquisition				
		\$ -	\$ -	\$ -
Professional Services for Acquisition				
		\$ -	\$ -	\$ -
Printing				
		\$ -	\$ -	\$ -
Travel expenses in Minnesota				
Travel to and from data gathering points 17,000 miles at IRS eligible rate (currently \$0.545)		\$ 9,300	\$ -	\$ 9,300
Other				
		\$ -	\$ -	\$ -
COLUMN TOTAL		\$ 213,300	\$ -	\$ 213,300
SOURCE AND USE OF OTHER FUNDS CONTRIBUTED TO THE PROJECT				
	Status (secured or pending)	Budget	Spent	Balance
Non-State:		\$ -	\$ -	\$ -
State: SWCD Local Capacity dollars provided through the Clean Water Fund. Morrison SWCD staff time for administration of the grant including reporting and grant management.		\$ 75,000	\$ -	\$ 75,000
In kind: Township Supervisor per diem for semiannual township meeting, time and mileage to identify culverts, submit culvert replacement forms and go over inventory data with SWCD staff; County Public Works time to inventory and mark culverts, host and attend meetings where the information is presented, submit culvert replacement information; County Land Services and GIS Departments time to update Beacon the interactive GIS mapping; County Commissioner per diem to attend and speak at meetings where the information is presented; Camp Ripley Environmental Services staff time to accompany and assist hydrology technician while on Camp Ripley property. Marking flags for townships to identify culvert locations during their annual road and bridge drive.		\$ 32,000	\$ -	\$ 32,000
Total:		\$ 107,000		
Other ENRTF APPROPRIATIONS AWARDED IN THE LAST SIX YEARS				
	Amount legally obligated but not yet spent	Budget	Spent	Balance
Legal Citation: M.L. 2016, Chp. 186, Sec. 2, Subd.04r		\$ 31,085	\$ 177,915	\$ 31,085

Morrison County Performance Drainage and Hydrology Management - Phase II
 Environment and Natural Resources Trust Fund (ENRTF)
 Legislative-Citizen Commission on Minnesota Resources (LCCMR)



Legend

- Camp Ripley Culverts Boundary- Phase II
- Soo Line - Phase II
- Camp Ripley Culverts Interior - Phase II
- Political_Townships
- Corporate_Limits
- Completed Townships
- Townships - Phase II



MORRISON SOIL AND WATER CONSERVATION DISTRICT

16776 Heron Road, Little Falls, Minnesota 56345
(320) 631-3551 - www.morrisonswcd.org

Bio:

Shannon Wettstein, District Manager for Morrison Soil and Water Conservation District holds an MBA from the University of Chester England and an Environmental Studies degree from the University of Minnesota Duluth. She has recently taken over management duties at the district after serving as the Water Planner in another district.

Morrison SWCD has a long successful history of administering and executing grants such as MPCA 319 grants, Clean Water Funds, Special Project grants through BWSR; Challenge Grants, as well as the budget for the district which includes multiple sources of funding from the state, county, and federal funds. The district also administers the MN Wetland Conservation Act, the Local Water Plan, and one of the biggest easement programs in the state, the Army Compatible Use Buffer Program which holds over 200 easements funded by the Dept. of Defense, LSOHC, and National Guard Bureau which has received nearly \$37,000,000 to date.

The mission of Morrison SWCD is to provide leadership and direct assistance for conservation management of soil and water.

Mission: To provide leadership and direct assistance for conservation management of soil and water.