## Project Overview: Doran Creek Stream Rehabilitation

Bois de Sioux Watershed District Board Meeting – January 26, 2023



## Why pursue the Doran Creek stream rehabilitation project?



This project is a win-win for everyone involved. It presents a truly unique opportunity to advance goals for all stakeholders.

- ✓ Landowners
- √ The Board
- √ Native habitat/species
- √ Funding agencies



Outcomes that benefit habitat

- Natural channel design restores 19 miles of ephemeral stream for effective sediment transport
  - √ Pool and riffle hydrology provides diverse, in-channel habitat types
- Conservation easements protect 1,300 acres of riparian/upland habitat
  - ✓ Native/perennial vegetation provides ideal pollinator habitat



**Outcomes** that benefit landowners

- Reduce agricultural and economic loss from frequent flooding
  - ✓ Regularly inundated lands converted to riparian buffer
  - √ Tillable acres protected by floodplain re-shaping
  - ✓ Shortened flood duration and reduced slack water
- Reliable and resilient drainage system outlet for increasingly unpredictable weather cycles
  - ✓ Restored channel capacity
  - ✓ Reduce backflow and tailwater conditions
- ❖ Enhancing one of the region's critical drainage systems with no net degradation for habitat and sensitive species



Outcomes that benefit the Board

- Advances sub-watershed goals in the Bois de Sioux-Mustinka Comprehensive Watershed Management Plan
  - ✓ 80% of the 10-year goal for sediment transport reduction
  - √ 53% of the 10-year goal for nutrient load reduction
- Advances goals in the Red River Watershed Management Plan
  - ✓ Rehabilitate within-channel/riparian/upland habitat to enhance healthy and stable riverine ecosystems in the Red River watershed.



# Why pursue an MOA with the Board of Water & Soil Resources?

The BWSR agreement opens *THE* critical pathway for project completion.

It presents a fulcrum for leveraging a broad array of funding opportunities.

#### Leveraging Agency Partnerships



**BWSR** 

BWSR Grants

Clean Water Grants

P&P - \$1.6mil

RIM - \$2.6mil

LSOHF - \$1mil

LCCMR - \$1.2mil

#### **Funding Strategy Breakdown**



Source	2023	2024	2025	2026	Total
BWSR Projects & Practices	400,000	400,000	400,000	400,000	1,600,000
BWSR* ** Reinvest in Minnesota	650,000	650,000	650,000	650,000	2,600,000
LSOHF*			1,000,000		1,000,000
LCCMR		1,200,000			1,200,000
NRCS** National Water Quality Initiative	750,000	750,000	750,000	750,000	3,000,000
RRWMB Clean Water Initiative		200,000	200,000	200,000	00,000
BdS Watershed District Watershed-Based Implementation Fund (1W1P)		200,000	200,000	200,000	600,000
Water Management District		61,400	61,400	61,400	184,200
TOTALS	1,800,000	3,461,400	3,261,400	2,261,400	10,784,200

\*Enter into MOA with BWSR
\*\*Collaborate with Wilkin SWCD

### Potential Funding Commitments and Terms



Source	Commitments	Terms	Administration
BWSR Projects & Practices	Contract agreement with state	3 years (+ 1-year extension)	10 hours - annual reports, final report, workplan
BWSR (via joint LSOHF application) Reinvest in Minnesota	MOA with BWSR Contract agreement with state	Perpetual	10 hours - annual reports, final report
LSOHF	Contract agreement with state	4 years	10 hours - annual reports, final reports
LCCMR	Contract agreement with state	2-3 years	10 hours
NRCS National Water Quality Initiative	None	3-5 years	20 hours - workplan submittal, annual reporting, progress tracking
RRWMB Clean Water Initiative	Funding agreement with RRWMB		1 hour – final report
BdS Watershed District Watershed-Based Implementation Fund (1W1P)	*Contract agreement with state *Partnership agreement	3 years	5 hours
Water Management District	103.D Statute	Negotiable	5 hours
*Agreements already in place **Hours and rates are an estimate	**71 hours over 5 years <i>\$7,100 over 5 years</i>		

#### Project Timeline/Phases



#### 2023

- Design/Permits Completed
- WMD Established (Spring)
- Phase-1 Funding Applications (Summer)

#### 2024

- Phase-1 Construction
- Phase-2 Funding Applications (Summer)

#### 2025

Phase-2 Construction

#### **Design/Permitting Progress**



- OPCC ~ \$8.4M
  - ~\$5M Construction Costs
  - ~\$2.6M ROW/Easements
  - ~\$0.8M Road Crossings
- Design
  - Channel excavation, berm construction, side inlet controls, woody stabilization
  - Draft Report nearing completion
    - · Present to Board in February
- Permitting
  - Wetlands in progress w/ agency engagement
  - Northern Long-Eared Bat and Monarch changes
  - · EAW being prepared
  - 404 required
    - Due diligence revealed sites of cultural significance
      - Will require additional steps, but not likely to have large impact on scope of project

#### WMD Development



- Landowner engagement
- Average charge of \$5/acre/year
- Draft report prepared
- Hold public hearing beginning of 2023



#### What are the next steps?

- Consider Draft Engineering Report prior to setting a public hearing (February Meeting?)
- Recommending Board consider entering MOA w/ BWSR at February Meeting
  - Requires a motion to provide draft documents prepared by Moore to your attorney
  - Direct administrator to form a partnership team
- Consider Draft WMD Report prior to setting a public hearing
- Ask for board consensus on funding/project strategy

