



Grant Progress Report

Watershed Based Implementation MAR 2022

Grant Title: Mississippi River Headwaters Watershed-Based Implementation

Grant Award (\$): \$861,581.00

Grant Execution Date: 04/22/2022

Grant ID: C22-7657

Required Match (%): 10

Grant End Date: 12/31/2025

Grantee: Beltrami SWCD

Required Match (\$): \$86,158.10

Fiscal Agent: Beltrami SWCD

Grant Day-to-Day Contact: Katelyn Bergstrom

| | Total Budgeted | Total Spent | Balance Remaining* |
|--------------------|----------------|---------------------|--------------------|
| Grant Funds | \$861,581.00 | \$590,461.13 | \$271,119.87 |
| Match Funds | \$166,842.17 | \$117,103.62 | \$49,738.55 |
| Other Funds | \$0.00 | \$0.00 | \$0.00 |
| Total | \$1,028,423.17 | \$707,564.75 | \$320,858.42 |

*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

Budget Details

| Activity Name | Category | Source Type | Source Description | Budgeted | Spent | Balance Remaining | Match Fund? |
|-----------------------------|---------------------------------------|---------------------|---|--------------|-------------|-------------------|-------------|
| Urban Stormwater Practices | Urban Stormwater Management Practices | Local Fund | Enbridge Energy | \$80,684.07 | \$80,684.07 | \$0.00 | Y |
| Administration/Coordination | Administration/Coordination | Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$43,077.00 | \$43,806.83 | (\$729.83) | N |
| Inventory/Mapping | Inventory/Mapping | Current State Grant | Mississippi River Headwaters | \$124,478.79 | \$30,178.06 | \$94,300.73 | N |

| <i>Activity Name</i> | <i>Category</i> | <i>Source Type</i> | <i>Source Description</i> | <i>Budgeted</i> | <i>Spent</i> | <i>Balance Remaining</i> | <i>Match Fund?</i> |
|------------------------------------|---------------------------------------|---------------------|---|-----------------|--------------|--------------------------|--------------------|
| | | | Watershed-Based Implementation | | | | |
| Non-Structural Management | Non-Structural Management Practices | Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$49,307.00 | \$83,065.24 | (\$33,758.24) | N |
| Planning and Assessment | Planning and Assessment | Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$52,145.16 | \$33,860.84 | \$18,284.32 | N |
| Project Development | Project Development | Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$107,883.21 | \$124,468.17 | (\$16,584.96) | N |
| Streambank or Shoreline Protection | Streambank or Shoreline Protection | Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$87,308.40 | \$72,258.43 | \$15,049.97 | N |
| Equipment | Supplies/Equipment | Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$87,831.44 | \$87,872.71 | (\$41.27) | N |
| Technical/Engineering Assistance | Technical/Engineering Assistance | Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$167,550.00 | \$107,601.85 | \$59,948.15 | N |
| Urban Stormwater Practices | Urban Stormwater Management Practices | Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$142,000.00 | \$7,349.00 | \$134,651.00 | N |
| Non-Structural Management | Non-Structural Management Practices | Landowner Fund | | \$22,158.10 | | \$22,158.10 | Y |
| Planning and Assessment | Planning and Assessment | Landowner Fund | | \$15,000.00 | \$10,250.43 | \$4,749.57 | Y |
| Streambank or Shoreline Protection | Streambank or Shoreline Protection | Landowner Fund | | \$30,000.00 | \$23,749.12 | \$6,250.88 | Y |
| Urban Stormwater Practices | Urban Stormwater Management Practices | Landowner Fund | | \$19,000.00 | \$2,420.00 | \$16,580.00 | Y |

| <i>Indicator Category</i> | <i>Proposed Indicator</i> | <i>Total Value</i> | <i>Unit</i> |
|---|-------------------------------------|--------------------|--------------|
| Water Pollution (Reduction Estimates) | Chloride | 5 | Tons/Yr |
| Water Pollution (Reduction Estimates) | Phosphorus (Est. Reduction) | 5.2 | Lbs/Yr |
| Water Pollution (Reduction Estimates) | Phosphorus (Est. Reduction) | 368 | Lbs/Yr |
| Water Pollution (Reduction Estimates) | Soil (Est. Savings) | 4.46 | Tons/Yr |
| Pollution Prevention | Prevention | 8356 | Count |
| Stormwater Management | Volume Reduced (Acre- Feet/Year) | 3.216 | Acre-Feet/Yr |
| Water Pollution (Reduction Estimates) | Nitrogen | 7328 | Lbs/Yr |
| Water Pollution (Reduction Estimates) | Soil (Est. Savings) | 1280 | Tons/Yr |
| Water Pollution (Reduction Estimates) | Sediment (Tss) | 4.7 | Tons/Yr |
| Water Pollution | Phosphorus (Est. Reduction) | 19.47 | Lbs/Yr |

| <i>Indicator Category</i> | <i>Final Indicator</i> | <i>Total Value</i> | <i>Unit</i> |
|---|-----------------------------|--------------------|-------------|
| Water Pollution (Reduction Estimates) | Nitrogen | 413.2 | Lbs/Yr |
| Water Pollution (Reduction Estimates) | Phosphorus (Est. Reduction) | 406.06 | Lbs/Yr |
| Water Pollution (Reduction Estimates) | Sediment (Tss) | 792.2 | Tons/Yr |
| Water Pollution (Reduction Estimates) | Soil (Est. Savings) | 0.3 | Tons/Yr |
| Pollution Prevention | Prevention | 303 | Count |
| Water Pollution (Reduction Estimates) | Phosphorus (Est. Reduction) | 43.63 | Lbs/Yr |
| Water Pollution (Reduction Estimates) | Sediment (Tss) | 48.64 | Tons/Yr |
| Water Pollution (Reduction Estimates) | Soil (Est. Savings) | 48.64 | Tons/Yr |
| Water Pollution (Reduction Estimates) | Phosphorus (Est. Reduction) | 0.2 | Lbs/Yr |

| <i>Indicator Category</i> | <i>Proposed Indicator</i> | <i>Total Value</i> | <i>Unit</i> |
|---------------------------------------|---------------------------|--------------------|-------------|
| (Reduction Estimates) | | | |
| Water Pollution (Reduction Estimates) | Soil (Est. Savings) | 19.47 | Tons/Yr |
| Water Pollution (Reduction Estimates) | Sediment (Tss) | 19.47 | Tons/Yr |
| Pollution Prevention | Prevention | 1607 | Count |

| <i>Indicator Category</i> | <i>Final Indicator</i> | <i>Total Value</i> | <i>Unit</i> |
|---------------------------------------|------------------------|--------------------|-------------|
| Water Pollution (Reduction Estimates) | Sediment (Tss) | 34 | Tons/Yr |

Grant Activities

Activity Name: Administration/Coordination

Activity Category: Administration/Coordination

Staff time?: Yes

Description: Beltrami SWCD will provide fiscal coordination and plan coordination.

Duties for fiscal coordination include:

- Accept all fiscal responsibilities with grant agreements applied for and received through the Mississippi River Headwaters Watershed Comprehensive Plan.
- Perform transactions as part of contract implementation.
- Provide accountability for all funds, report receipts and disbursements, and provide a complete audit report annually.
- Provide Policy Committee and its members with records necessary to describe the financial condition of the grant agreements the Policy Committee reviews.
- Maintain responsibility for fiscal records retention consistent with the Fiscal Agent's records retention schedule until the Memorandum of Agreement is terminated and then financial records will be turned over to the Comprehensive Plan Coordinator.

Duties of the Plan Coordinator position:

- Handle all day-to-day administrative responsibilities with the ongoing planning and implementation of the Mississippi River Headwaters Watershed Comprehensive Plan.
- Be the day-to-day contact for the current Mississippi River Headwaters Watershed Comprehensive Plan and Grant Agreement and any subsequent grant agreements the Mississippi River Headwaters Watershed Comprehensive Plan may receive.
- Be responsible for BWSR and other grant reporting requirements.
- Assist the Policy Committee with the administrative details to oversee future planning and implementation of the watershed-based Plan. Maintain the Mississippi River Headwaters Watershed Comprehensive Plan website and perform other duties to keep the Policy Committee, Advisory Committee, and Steering Team informed about the implementation of the watershed-based Plan.
- Maintain communication and build relationships with agency partners to further implement and document accomplishments toward Plan goals.
- Track and measure progress toward goals/milestones and maintain database tracking systems.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$43,077.00 | \$43,806.83 | (\$729.83) | 12/31/2024 | N |

Actual Results

Activities completed as described above.

administered grant finances and coordinated meetings amongst grant collaborators

Activity Name: Equipment

Activity Category: Supplies/Equipment

Staff time?: No

Description: Acquisition of a no-till drill to be used through out the watershed for cover crop implementation and upgrade to local road salting equipment for reduction of salt use.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$87,831.44 | \$87,872.71 | (\$41.27) | 04/24/2024 | N |

Actual Results

Completed as described above.

Supplies and equipment purchased include a no-till drill, plat books for drill operation, Clean Water decals for no-till drill, chloride application for two trucks and 16 road temperature gauges in Itasca County, and chloride retrofit equipment for the City of Cass Lake.

no additions since June 2024

Activity Name: Inventory/Mapping

Activity Category: Inventory/Mapping

Staff time?: Yes

Description: In effort to gather information to aid in local implementation and future planning, partners staff time will include training, gathering information and historical data to assist with inventories, office and field verification, landowner interviews, and meeting with state and federal staff.

- Re-evaluate the priority wild rice lakes/streams inventory each county has for the Reinvest in Minnesota protection program
- Nearshore digitization – Quantifying impervious surfaces on Tier 1 priority lakes
- Stormwater Inventory – Inventory and inspection of existing infrastructure
- Culvert inventory – Complete watershed-wide culvert and bridge inventory
- Build a hydrologically corrected digital elevation model
- Conduct a field survey of property owners in the Pokegama floodplain
- Create a digital database of known SSTS information in Beltrami County.
- Geologic survey – Assist counties in completing the County Geologic Atlas

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$124,478.79 | \$30,178.06 | \$94,300.73 | 01/22/2025 | N |

Actual Results

Completed as described above.

Staff time includes Watershed-wide culvert inventory, GIS mapping of imperviousness, wild rice inventory, geologic atlas, and SSTS database.

Activity Name: Non-Structural Management

Activity Category: Non-Structural Management Practices

Staff time?: No

Description: Assist landowners with implementing soil health practices and grazing management, assist with agricultural water certification, and promote nutrient management program participation. These initiatives will accomplish goals outlined in the Mississippi River Headwaters Watershed Comprehensive Plan on pages 74 and 75 within 9 priority lake watersheds. Priority watersheds were based on the HSPF model and used a value model based on local soils, slope, and proximity to streams resulting in targeting 1,600 acres. Resulting in a net reduction of up to 1,280 tons of sediment per year, 368 pounds of Phosphorus per year, and 7,328 pounds of Nitrogen per year. Implementation efforts will specifically support staff, projects, and practices identified in the 2022-24 implementation funding.

Activities include:

- Soil health BMPs – Install soil health practices and enhancements on agricultural lands, focusing on conservation tillage and residue management, cover crops and filter strips, and nutrient management. Soil health practices will be targeted over 1,600 acres in 2022 and 2023 and provide enhance farm management and soil stewardship on 64 fields. Location of practices will be based on priority ranked lake resources and targeted based on soil erodibility, field elevations, and proximity to water conveyance.
- Grazing BMPs – Implement grazing management systems, including grazing management plans, fencing, water sourcing, and silva-pasturing. Grazing management systems will be targeted toward several new designs based on priority ranked lake resources and targeted based on soil erodibility, field elevations, and proximity to water conveyance.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$49,307.00 | \$83,065.24 | (\$33,758.24) | 01/09/2025 | N |
| Landowner Fund | | \$22,158.10 | | \$22,158.10 | | Y |

Actual Results

Completed as described above.

In 2024 a total of 11 contracts for 889 acres of soil health practices were completed

| Final Indicators | | |
|-----------------------------|--------------------|-------------|
| <u>Indicator</u> | <u>Total Value</u> | <u>Unit</u> |
| Nitrogen | 413.2 | Lbs/Yr |
| Phosphorus (Est. Reduction) | 406.06 | Lbs/Yr |
| Sediment (Tss) | 792.2 | Tons/Yr |
| Soil (Est. Savings) | 0.3 | Tons/Yr |

| | |
|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 14 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: | Install Date: 07/13/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 3.1 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 0.2 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 5 | Simple Method (MPCA) | Lake Bemidji |

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|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 26 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 26 acres of annual forage into herbicide treat hay | Install Date: 07/13/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Sediment (Tss) | Tons/Yr | 0.5 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 5.8 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 9.2 | Simple Method (MPCA) | Lake Bemidji |

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|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 7 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 7 acres of pasture interseed | Install Date: 09/29/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Nitrogen | Lbs/Yr | 2.5 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 0.1 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 1.6 | Simple Method (MPCA) | Lake Bemidji |

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|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 20 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 20 acres of hay | Install Date: 07/13/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Sediment (Tss) | Tons/Yr | 0.3 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 4.4 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 7.1 | Simple Method (MPCA) | Lake Bemidji |

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|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 28.5 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 28.5 acres of annual forage no-tilled into silage stubble | Install Date: 07/13/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Sediment (Tss) | Tons/Yr | 0.5 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 10.5 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 6.4 | Simple Method (MPCA) | Lake Bemidji |

| | |
|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 26 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 26 acres | Install Date: 07/13/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Sediment (Tss) | Tons/Yr | 1.2 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 2.3 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 7.1 | Simple Method (MPCA) | Lake Bemidji |

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|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 36.5 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 36.5 acres of hay | Install Date: 06/01/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Nitrogen | Lbs/Yr | 10.2 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 1.7 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 3.3 | Simple Method (MPCA) | Lake Bemidji |

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|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 15 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 14 acres of pasture into herbicide treat hay | Install Date: 05/16/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Nitrogen | Lbs/Yr | 5.3 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 3.3 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 0.3 | Simple Method (MPCA) | Lake Bemidji |

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|--|--------------------------|
| Activity Action Name: ██████████ | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 59.4 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 59.4 acres of no-till soybeans | Install Date: 06/22/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Sediment (Tss) | Tons/Yr | 0.02 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 13 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 21.3 | Simple Method (MPCA) | Lake Bemidji |

| | |
|--|--------------------------|
| Activity Action Name: ██████████ | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 33.1 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 33 acres of hay into herbicide killed hay | Install Date: 02/21/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Nitrogen | Lbs/Yr | 68.8 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 9 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 0.7 | Simple Method (MPCA) | Lake Bemidji |

| | |
|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 90 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 90 acres of soybeans no-tilled into soybean stubble | Install Date: 06/21/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Sediment (Tss) | Tons/Yr | 1.6 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 30 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 32 | Simple Method (MPCA) | Lake Bemidji |

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|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 17 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 17 acres of hay into hay | Install Date: 02/21/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 3.8 | Simple Method (MPCA) | Lake Bemidji |
| Soil (Est. Savings) | Tons/Yr | 0.3 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 6 | Simple Method (MPCA) | Lake Bemidji |

| | |
|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 32.2 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 32.2 acres of soybeans no-tilled into herbicide treat hay | Install Date: 02/21/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Sediment (Tss) | Tons/Yr | 0.6 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 7.1 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 11.4 | Simple Method (MPCA) | Lake Bemidji |

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|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 120 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 120 acres of no-till annual forage | Install Date: 04/25/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 52.2 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 4.1 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 83.5 | Simple Method (MPCA) | Lake Bemidji |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 9 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 9 acres of annual forage into previous years stubble | Install Date: 06/21/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Sediment (Tss) | Tons/Yr | 0.2 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 2 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 3.2 | Simple Method (MPCA) | Lake Bemidji |

| | |
|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 28.2 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 28.2 acres of no-till soybeans into herbicide treat hay | Install Date: 06/21/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Nitrogen | Lbs/Yr | 10.1 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 0.5 | Simple Method (MPCA) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 6.1 | Simple Method (MPCA) | Lake Bemidji |

| | |
|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 91 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 91 acres of no till hay and barley | Install Date: 02/21/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 8.2 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 4.2 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 25 | Simple Method (MPCA) | Lake Bemidji |

| | |
|--|----------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 186.38 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 186.38 acres of annual forage into previous year stubble | Install Date: 02/21/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 16.8 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 51.4 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 8.6 | Simple Method (MPCA) | Lake Bemidji |

| | |
|---|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 30 - Acres |
| TA Provider/JAA: SWCD | Lifespan: 1 Year |
| Practice Description: 30 acres of rye cover crop | Install Date: 02/21/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 2.7 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 1.4 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 8.2 | Simple Method (MPCA) | Lake Bemidji |

| | |
|---|--------------------------|
| Activity Action Name: [REDACTED] Soil Test | Activity Count: 0 |
| Practice Type: 590 - Nutrient Management | Size/Units: 6 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 1 Year |
| Practice Description: 6 Soil Tests for nutrient reduction | Install Date: 04/23/0024 |
| | Mapped: Yes |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | ██████ Soil Health | Activity Count: 1 |
| Practice Type: | 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 75 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 75 acres of no-till hay planting | Install Date: 09/09/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--------------------|-------------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 18.75 | PTMApp - Catchment | Mississippi River |
| Sediment (Tss) | Tons/Yr | 68.25 | PTMApp - Catchment | Mississippi River |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | ██████ Soil Health | Activity Count: 1 |
| Practice Type: | 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 11.5 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 11.5 acres of no-till hay planting | Install Date: 08/30/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--------------------|-------------------|
| Sediment (Tss) | Tons/Yr | 10.47 | PTMApp - Catchment | Mississippi River |
| Phosphorus (Est. Reduction) | Lbs/Yr | 2.88 | PTMApp - Catchment | Mississippi River |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | ██████ Soil Health | Activity Count: 1 |
| Practice Type: | 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 89 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 89 acres of no-till corn and millet | Install Date: 05/25/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--------------------|-------------------|
| Sediment (Tss) | Tons/Yr | 80.99 | PTMApp - Catchment | Mississippi River |
| Phosphorus (Est. Reduction) | Lbs/Yr | 22.25 | PTMApp - Catchment | Mississippi River |

| | | |
|-----------------------|-------------------------------------|--------------------------|
| Activity Action Name: | ██████ Soil Health | Activity Count: 1 |
| Practice Type: | 340 - Cover Crop | Size/Units: 200 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 200 acres of oats/radish cover crop | Install Date: 08/20/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--------------------|-------------------|
| Sediment (Tss) | Tons/Yr | 160 | PTMApp - Catchment | Mississippi River |
| Phosphorus (Est. Reduction) | Lbs/Yr | 46 | PTMApp - Catchment | Mississippi River |

| | | |
|-----------------------|-----------------------------------|--------------------------|
| Activity Action Name: | Soil Health | Activity Count: 1 |
| Practice Type: | 340 - Cover Crop | Size/Units: 30 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 30 acres of Winter Rye cover crop | Install Date: 10/12/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--------------------|-------------------|
| Sediment (Tss) | Tons/Yr | 24 | PTMApp - Catchment | Mississippi River |
| Phosphorus (Est. Reduction) | Lbs/Yr | 6.9 | PTMApp - Catchment | Mississippi River |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | Soil Health | Activity Count: 1 |
| Practice Type: | 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 94.6 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 94.6 acres of no-till wheat | Install Date: 05/09/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--------------------|-------------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 23.65 | PTMApp - Catchment | Mississippi River |
| Sediment (Tss) | Tons/Yr | 86.09 | PTMApp - Catchment | Mississippi River |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | ██████ Soil Health | Activity Count: 1 |
| Practice Type: | 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 118 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 118 acres of no till annual forage | Install Date: 06/05/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|--------|--------------------|-------------------|
| Sediment (Tss) | Tons/Yr | 107.38 | PTMApp - Catchment | Mississippi River |
| Phosphorus (Est. Reduction) | Lbs/Yr | 29.5 | PTMApp - Catchment | Mississippi River |

| | | |
|-----------------------|--------------------------------|---------------------------|
| Activity Action Name: | ██████ Soil Health | Activity Count: 1 |
| Practice Type: | 340 - Cover Crop | Size/Units: 221.1 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 221.1 acres of Oats cover crop | Install Date: 09/04/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--------------------|-------------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 50.83 | PTMApp - Catchment | Mississippi River |
| Sediment (Tss) | Tons/Yr | 176.8 | PTMApp - Catchment | Mississippi River |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | ██████ Soil Health | Activity Count: 1 |
| Practice Type: | 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 30 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 30 acres of no-till hay planting | Install Date: 08/16/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--------------------|-------------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 7.5 | PTMApp - Catchment | Mississippi River |
| Sediment (Tss) | Tons/Yr | 27.3 | PTMApp - Catchment | Mississippi River |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | ██████ Soil Health | Activity Count: 1 |
| Practice Type: | 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 20 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 20 acres of no-till hay planting | Install Date: 06/26/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--------------------|-------------------|
| Sediment (Tss) | Tons/Yr | 18.2 | PTMApp - Catchment | Mississippi River |
| Phosphorus (Est. Reduction) | Lbs/Yr | 5 | PTMApp - Catchment | Mississippi River |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | ██████████ | Activity Count: 1 |
| Practice Type: | 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 14 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 14 acres of no-till annual forage into herbicide treated hay | Install Date: 02/21/2024 |
| | | Mapped: No |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 1.3 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 0.7 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 3.8 | Simple Method (MPCA) | Lake Bemidji |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | ██████████ | Activity Count: 1 |
| Practice Type: | 329 - Residue & Tillage Management (no/strip-till) | Size/Units: 115 - Acres |
| TA Provider/JAA: | SWCD | Lifespan: 1 Year |
| Practice Description: | 115 acres of no tilled, hat and barley | Install Date: 04/25/2024 |
| | | Mapped: No |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|----------------------|--------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 10.4 | Simple Method (MPCA) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 5.3 | Simple Method (MPCA) | Lake Bemidji |
| Nitrogen | Lbs/Yr | 31.6 | Simple Method (MPCA) | Lake Bemidji |

Activity Name: Planning and Assessment

Activity Category: Planning and Assessment

Staff time?: Yes

Description: Planning and assessment efforts will support current programs identified in the 2022-2024 implementation funding and future projects and practices.

Activities include:

- Forest plans – Cost-share program for private forest management plans. The cost-share program will supplement MN DNR program funding for forest management plans or provide standalone funding if MN DNR cost-share funding is unavailable. Targeted areas will include privately owned forests >20 acres in size, and landowners must be willing to enroll in Sustainable Forest Incentive Act or similar protection program. The goal will be to provide forest management plans that include actions to protect water quality or sensitive habitat areas and provide further guidance on implementing the forest plan. Our goal will be to complete plans covering 8,356 acres and enroll these lands into a protection program.
- Forest Inventory – Complete forest modeling throughout the Mississippi River Headwaters. Improved modeling will aid in moving toward a balanced age-class distribution, identifying and maintaining old forests, maintaining adequate acres of young forests, increasing specific cover types across the landscape, converting specific cover types to conifers, and improving timber harvesting on a sustainable basis.
- Forest road review – Increase aquatic connectivity by recommending forest road closures in the Chippewa National Forest.
- Private well protection planning – Development of a private wellhead protection plan to address potential issues on farmhouse or lake home sites
- Create a Watershed Cooperative Weed Management Area

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$52,145.16 | \$33,860.84 | \$18,284.32 | 12/31/2024 | N |
| Landowner Fund | | \$15,000.00 | \$10,250.43 | \$4,749.57 | 11/15/2024 | Y |

Actual Results

Completed as described above.

Provided cost share for the completion of 25 forest stewardship plans throughout the Watershed.

Provided cost share for the completion of 14 forest stewardship plans throughout the Watershed.

Provided cost share for the completion of Forest Stewardship Plans - Plan acres total 1969.62

Final Indicators

| <u>Indicator</u> | <u>Total Value</u> | <u>Unit</u> |
|------------------|--------------------|-------------|
| Prevention | 303 | Count |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 06/15/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 119 | Literature Value | Cass Lake |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 06/16/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------------|
| Prevention | Count | 149 | Literature Value | Mississippi River |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 240 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 05/10/2022 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Mud Lake |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 48 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 01/04/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Deer Lake |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 37 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 03/05/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------------|
| Prevention | Count | 1 | Other | Frontenac Creek |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 25.2 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 04/30/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Gull Lake |

| | |
|--|---------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 222.5 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 05/31/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------|
| Prevention | Count | 1 | Other | Lake Hattie |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 80 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 06/03/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Lost Lake |

| | |
|--|---------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 36.46 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 03/09/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|--------------|
| Prevention | Count | 1 | Other | Lake Manomin |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 165 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 05/14/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Unnamed |

| | |
|--|---------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 121.3 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 09/19/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Unnamed |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 35 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 08/12/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|----------------|
| Prevention | Count | 1 | Other | Hennepin Creek |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 32 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 07/24/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Unnamed |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 50 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 03/27/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------|
| Prevention | Count | 1 | Other | Spring Lake |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 82.4 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 02/02/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------------|
| Prevention | Count | 1 | Other | Mississippi River |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 84 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 03/20/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------------|
| Prevention | Count | 1 | Other | Mississippi River |

| | |
|--|---------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 156.2 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 08/31/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------------|
| Prevention | Count | 1 | Other | Mississippi River |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 104 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 08/08/2023 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|------------------|
| Prevention | Count | 1 | Other | Plantagenet Lake |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████████████████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 232 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 02/23/2023 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Gull Lake |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 127 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 11/02/2023 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Long Lake |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 81.4 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 08/22/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------------|
| Prevention | Count | 1 | Other | Mississippi River |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 114 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 09/05/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|--------------------|
| Prevention | Count | 1 | Other | Little Turtle Lake |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 34 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 12/23/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|------------------|
| Prevention | Count | 1 | Other | Little Sissbawet |

| | |
|--|---------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 264.5 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 11/12/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------|
| Prevention | Count | 1 | Other | Moose Creek |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 145 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 06/06/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------|
| Prevention | Count | 1 | Literature Value | Clancy Lake |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 75.5 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 07/25/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|--------------|
| Prevention | Count | 1 | Other | Goodwin Lake |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 117 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 12/22/2022 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|---------------|
| Prevention | Count | 1 | Other | Alcohol Creek |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 36 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 02/01/2023 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|---------------|
| Prevention | Count | 1 | Other | Hennepin Lake |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 118 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 09/19/2022 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|---------------|
| Prevention | Count | 1 | Other | Rabideau Lake |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 93 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 09/26/2022 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|----------------------|
| Prevention | Count | 1 | Other | Frontenac Lake/Creek |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████████████████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 31 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 04/10/2023 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------------|
| Prevention | Count | 1 | Other | Mississippi River |

| | | |
|-----------------------|-------------------------------|--------------------------|
| Activity Action Name: | ██████ | Activity Count: 1 |
| Practice Type: | 508M - Forest Management Plan | Size/Units: 72 - Acres |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 05/26/2023 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|---------------|
| Prevention | Count | 1 | Other | Lindgren Lake |

| | |
|--|---------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 169.2 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 02/10/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------|
| Prevention | Count | 1 | Other | Willow Lake |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 57 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 10/24/2022 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------|
| Prevention | Count | 1 | Other | Meadow Lake |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 89 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 01/02/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Long Lake |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 76 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 09/17/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-----------|
| Prevention | Count | 1 | Other | Unnamed |

| | |
|--|--------------------------|
| Activity Action Name: [REDACTED] | Activity Count: 1 |
| Practice Type: 508M - Forest Management Plan | Size/Units: 75 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 07/31/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|----------------|-------|-------|------------------|-------------|
| Prevention | Count | 1 | Other | Spider Lake |

Activity Name: Project Development

Activity Category: Project Development

Staff time?: Yes

Description: Efforts will include measurable steps towards accomplishing goals and activities outlined in the Plan. Actions include the development of a local forestry technical team that will provide a vegetation management frameworks and local policy for improved forest stewardship, additional funds for partners to implement various easement programs, and several outreach actions/programs.

- Forest Technical Team – A primary coordination strategy for forest resources will periodically convene a core group of partners
- Easement delivery – provide additional resources for outreach, planning, and general assistance in the easement application process
- Outreach actions – 4,000 targeted mailings to landowners, development and presentation of forest program to forestry groups, development and presentation of water quality data and lakeshore programs, host two agriculture field days, host one agriculture consultant workshop, coordinate habitat restorations, and host two chloride workshops

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$107,883.21 | \$124,468.17 | (\$16,584.96) | 01/23/2025 | N |

Actual Results

Activities completed as described above.

Completed project development/outreach activities include lake association, ag, and forestry events/presentations, a public works maintenance workshop, a buckthorn session, smart salting workshops, soil health mailings, and general project development/outreach for forestry, ag, easements, shoreline and urban stewardship.

Completed project development/outreach activities within the watershed including lake association, agriculture, and forestry events/presentations, Smart Salting workshop, soil health and easement mailings, as well as general project development/outreach for forestry, agriculture, easements, shoreline, and urban stewardship.

Activity Name: Streambank or Shoreline Protection

Activity Category: Streambank or Shoreline Protection

Staff time?: No

Description: The streambank or shoreline protection initiatives will accomplish goals outlined in the Mississippi River Headwaters Comprehensive Plan. Planning and assessment efforts will support current programs identified in the 2022-2024 implementation funding and future projects and practices.

Activities include:

- Lakeshore stormwater, buffers, and shoreline restoration – Complete shoreline stabilization practices on priority lakes in the Mississippi River Headwaters Watershed to protect infrastructure and prevent erosion, sedimentation, and damaged areas from high water events. Projects include installing 11 buffer practices, four stormwater practices, and seven bio-engineered practices.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$87,308.40 | \$72,258.43 | \$15,049.97 | 12/31/2024 | N |
| Landowner Fund | | \$30,000.00 | \$23,749.12 | \$6,250.88 | 11/26/2024 | Y |

Actual Results

Shoreline stabilizations installed on Bemidji and Plantagenet Lakes.

Shoreline stabilizations projects installed on Lakes: Plantagenet, Cass, and Gull

Final Indicators

| <u>Indicator</u> | <u>Total Value</u> | <u>Unit</u> |
|-----------------------------|--------------------|-------------|
| Phosphorus (Est. Reduction) | 43.63 | Lbs/Yr |
| Sediment (Tss) | 48.64 | Tons/Yr |
| Soil (Est. Savings) | 48.64 | Tons/Yr |

| | | |
|-----------------------|---|-------------------------------|
| Activity Action Name: | ████████████████████ | Activity Count: 1 |
| Practice Type: | 580 - Streambank and Shoreline Protection | Size/Units: 150 - Linear Feet |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | The project involved removing a failing retaining wall, followed by regrading with fill material to create a 3 to 1 slope. The site was re-vegetated with native seeds and plant plugs. Collectively, the installation will reduce and treat stormwater, stabilize the lakeshore, and enhance ecological function at the land-water interface. From the water's edge, a 15-foot buffer of native vegetation has been planted and seeded along 150 feet of shoreline. Native plants and seeds have been selected to match the site conditions and meet objectives. | Install Date: 08/24/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--|-----------|
| Soil (Est. Savings) | Tons/Yr | 10.56 | Bwsr Calc (Stream & Ditch Stabilization) | Gull Lake |
| Sediment (Tss) | Tons/Yr | 10.56 | Bwsr Calc (Stream & Ditch Stabilization) | Gull Lake |
| Phosphorus (Est. Reduction) | Lbs/Yr | 8.98 | Bwsr Calc (Stream & Ditch Stabilization) | Gull Lake |

| | | |
|-----------------------|---|-------------------------------|
| Activity Action Name: | ████████████████████ | Activity Count: 1 |
| Practice Type: | 580 - Streambank and Shoreline Protection | Size/Units: 200 - Linear Feet |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | The project involved removing a failing retaining wall, followed by regrading with fill material to create a 3 to 1 slope. The site was re-vegetated with native seeds and plant plugs. Collectively, the installation will reduce and treat stormwater, stabilize the lakeshore, and enhance ecological function at the land-water interface. From the water's edge, a 15-foot buffer of native vegetation has been planted and seeded along 200 feet of shoreline. Native plants and seeds have been selected to match the site conditions and meet objectives. | Install Date: 08/19/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--|-----------|
| Sediment (Tss) | Tons/Yr | 12.38 | Bwsr Calc (Stream & Ditch Stabilization) | Cass Lake |
| Soil (Est. Savings) | Tons/Yr | 12.38 | Bwsr Calc (Stream & Ditch Stabilization) | Cass Lake |
| Phosphorus (Est. Reduction) | Lbs/Yr | 10.52 | Bwsr Calc (Stream & Ditch Stabilization) | Cass Lake |

| | | |
|-----------------------|--|-------------------------------|
| Activity Action Name: | ████████████████████ | Activity Count: 1 |
| Practice Type: | 580 - Streambank and Shoreline Protection | Size/Units: 250 - Linear Feet |
| TA Provider/JAA: | SWCD | Lifespan: 10 Years |
| Practice Description: | The project involved removing a failing retaining wall, followed by regrading with fill material to create a 3 to 1 slope. The site was re-vegetated with native seeds and plant plugs. Collectively, the installation will reduce and treat stormwater, stabilize the lakeshore, and enhance ecological function at the land-water interface. From the water's edge, a 6250 sq feet of buffer of native vegetation has been planted and seeded along 250 feet of shoreline resulting in .25lbs/yr of phosphorus reduction. Native plants and seeds have been selected to match the site conditions and meet objectives. | Install Date: 06/22/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|--------|-------|------------------|------------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 0.25 | Literature Value | Lake Plantagenet |

| | | |
|-----------------------|---|------------------------------|
| Activity Action Name: | ████████████████████ | Activity Count: 1 |
| Practice Type: | 580 - Streambank and Shoreline Protection | Size/Units: 75 - Linear Feet |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | | Install Date: 11/18/2024 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--|------------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 3.27 | Bwsr Calc (Stream & Ditch Stabilization) | Lake Plantagenet |
| Sediment (Tss) | Tons/Yr | 3.85 | Bwsr Calc (Stream & Ditch Stabilization) | Lake Plantagenet |
| Soil (Est. Savings) | Tons/Yr | 3.85 | Bwsr Calc (Stream & Ditch Stabilization) | Lake Plantagenet |

| | |
|--|-------------------------------|
| Activity Action Name: XXXXXXXXXX | Activity Count: 1 |
| Practice Type: 580 - Streambank and Shoreline Protection | Size/Units: 150 - Linear Feet |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 09/22/2023 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--|------------------|
| Sediment (Tss) | Tons/Yr | 8.25 | Bwsr Calc (Stream & Ditch Stabilization) | Lake Plantagenet |
| Soil (Est. Savings) | Tons/Yr | 8.25 | Bwsr Calc (Stream & Ditch Stabilization) | Lake Plantagenet |
| Phosphorus (Est. Reduction) | Lbs/Yr | 7.01 | Bwsr Calc (Stream & Ditch Stabilization) | Lake Plantagenet |

| | | |
|-----------------------|---|-------------------------------|
| Activity Action Name: | XXXXXXXXXX | Activity Count: 1 |
| Practice Type: | 580 - Streambank and Shoreline Protection | Size/Units: 160 - Linear Feet |
| TA Provider/JAA: | Private Consultant | Lifespan: 10 Years |
| Practice Description: | The project involved removing a failing retaining wall, followed by regrading with fill material to create a 3 to 1 slope. The site was re-vegetated with native seeds and plant plugs. Collectively, the installation will reduce and treat stormwater, stabilize the lakeshore, and enhance ecological function at the land-water interface. From the water's edge, a 15-foot buffer of native vegetation has been planted and seeded along 160 feet of shoreline. Native plants and seeds have been selected to match the site conditions and meet objectives. | Install Date: 11/09/2023 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|--|--------------|
| Soil (Est. Savings) | Tons/Yr | 13.6 | Bwsr Calc (Stream & Ditch Stabilization) | Lake Bemidji |
| Sediment (Tss) | Tons/Yr | 13.6 | Bwsr Calc (Stream & Ditch Stabilization) | Lake Bemidji |
| Phosphorus (Est. Reduction) | Lbs/Yr | 13.6 | Bwsr Calc (Stream & Ditch Stabilization) | Lake Bemidji |

Activity Name: Technical/Engineering Assistance

Activity Category: Technical/Engineering Assistance

Staff time?: Yes

Description: This activity provides funding for technical staff time from the local SWCD with appropriate JAA to implement those practices that address goals identified within the comprehensive plan. Staff credentials can be viewed at their respective offices. If JAA is not available, TSA or NRCS engineering assistance or private engineering with the applicable appropriate licensure/credentials for practice investigation, design, and construction will be utilized. All practice will follow the NRCS Field Office Technical Guide (FOTG), MN Stormwater Manual, or be a professionally accepted engineering or ecological practice methods to ensure that the requirements for the Technical Quality Assurances are met.

It is anticipated that existing staff will utilize 70% of this funding, while private professional engineers will account for 30%.

The billable rate for technical staff working on BMP activities associated with technical site assessment, surveys, preliminary analysis and design, final design, construction supervision, installation, inspection, and completion of projects funded by this grant.

See Attached Staff Rate/Hours

Activities include:

- Utilize TSA or local Engineers and/or private consultants to complete field investigations, surveys, construction inspections, and designs for stormwater, shorelines stabilizations, dams and/or culverts for projects conducted through watershed-based implementation funding.
- Technical staff assistance for soil health (hrs), grazing management, forestry actions, lakeshore, urban stormwater, ditch checks, and agricultural water certification/nutrient management.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$167,550.00 | \$107,601.85 | \$59,948.15 | 01/23/2025 | N |

Actual Results

Completed as described above.

Staff completed general technical and engineering assistance for stormwater, forestry, shoreline restoration, and soil health. Outside engineering/consulting was obtained for a winter stormwater treatment project, culvert restoration, BSU and Cass Lake stormwater treatment, and a chloride reduction study.

Staff completed general technical and engineering assistance for stormwater, forestry, shoreline restoration, easements outreach, soil health, as well as lead and attending educational training events. Additional expenditures include development of a Buffer incentive program, and Itasca SWCD Urban - Cohasset/Deer River Stormwater scoping.

Activity Name: Urban Stormwater Practices

Activity Category: Urban Stormwater Management Practices

Staff time?: No

Description: The urban stormwater initiatives will accomplish goals outlined in the Mississippi River Headwaters Comprehensive Plan. Planning and assessment efforts will support current programs identified in the 2022-2024 implementation funding and future projects and practices. Projects such as rain gardens will have a 10-year lifespan whereas larger stormwater projects will have a 25-year lifespan, it is anticipated these projects.

Activities include:

- Stormwater BMPs – Installation of four stormwater BMPs based on a retrofit analysis scheduled to be completed in March of 2022.
- Pokegama ditch checks – Road drainage modification at MN 169 to address stormwater runoff velocity.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed-Based Implementation | \$142,000.00 | \$7,349.00 | \$134,651.00 | 11/30/2024 | N |
| Landowner Fund | | \$19,000.00 | \$2,420.00 | \$16,580.00 | 11/30/2024 | Y |
| Local Fund | Enbridge Energy | \$80,684.07 | \$80,684.07 | \$0.00 | 01/18/2024 | Y |

Actual Results

native vegetation installed along stormwater treatment project to compensate when area is used for excess snow storage

Enbridge projects- Culvert replacement on Grant Creek

Final Indicators

| <u>Indicator</u> | <u>Total Value</u> | <u>Unit</u> |
|-----------------------------|--------------------|-------------|
| Phosphorus (Est. Reduction) | 0.2 | Lbs/Yr |
| Sediment (Tss) | 34 | Tons/Yr |

| | |
|---|--------------------------|
| Activity Action Name: PMA 25 snow storage project | Activity Count: 1 |
| Practice Type: 342 - Critical Area Planting | Size/Units: 1 - Acres |
| TA Provider/JAA: Private Consultant | Lifespan: 10 Years |
| Practice Description: | Install Date: 10/31/2024 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|------------------|-------------|
| Sediment (Tss) | Tons/Yr | 34 | MIDS | Lake Irvine |
| Phosphorus (Est. Reduction) | Lbs/Yr | 0.2 | MIDS | Lake Irvine |



Grant Progress Report

Watershed Based Implementation 2024

Grant Title: Mississippi River Headwaters Watershed Based Implementation

Grant Award (\$): \$1,013,278.00

Grant Execution Date: 06/04/2024

Grant ID: C24-0206

Required Match (%): 10

Grant End Date: 12/31/2026

Grantee: Beltrami SWCD

Required Match (\$): \$101,327.80

Fiscal Agent: Beltrami SWCD

Grant Day-to-Day Contact: Katelyn Bergstrom

| | Total Budgeted | Total Spent | Balance Remaining* |
|--------------|-----------------------|--------------------|-----------------------|
| Grant Funds | \$1,013,278.00 | \$21,778.40 | \$991,499.60 |
| Match Funds | \$125,000.00 | \$0.00 | \$125,000.00 |
| Other Funds | \$0.00 | \$0.00 | \$0.00 |
| Total | \$1,138,278.00 | \$21,778.40 | \$1,116,499.60 |

*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

Budget Details

| Activity Name | Category | Source Type | Source Description | Budgeted | Spent | Balance Remaining | Match Fund? |
|-----------------------------|-----------------------------|---------------------|---|--------------|------------|-------------------|-------------|
| Supplies and Equipment | Supplies/Equipment | Local Fund | City of Bemidji providing 50% cost of street sweeper | \$125,000.00 | | \$125,000.00 | Y |
| Administration/Coordination | Administration/Coordination | Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$65,000.00 | \$7,515.84 | \$57,484.16 | N |
| Non-Structural Management | Non-Structural Management | Current State Grant | Mississippi River Headwaters | \$125,000.00 | | \$125,000.00 | N |

| <i>Activity Name</i> | <i>Category</i> | <i>Source Type</i> | <i>Source Description</i> | <i>Budgeted</i> | <i>Spent</i> | <i>Balance Remaining</i> | <i>Match Fund?</i> |
|---------------------------------------|---------------------------------------|---------------------|---|-----------------|--------------|--------------------------|--------------------|
| | Practices | | Watershed Based Implementation | | | | |
| Planning and Assessment | Planning and Assessment | Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$49,000.00 | | \$49,000.00 | N |
| Project Development | Project Development | Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$215,000.00 | \$12,819.22 | \$202,180.78 | N |
| Streambank or Shoreline Protection | Streambank or Shoreline Protection | Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$105,000.00 | | \$105,000.00 | N |
| Technical Assistance | Technical/Engineering Assistance | Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$220,000.00 | \$1,443.34 | \$218,556.66 | N |
| Urban Stormwater Management Practices | Urban Stormwater Management Practices | Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$234,278.00 | | \$234,278.00 | N |

Indicator Summary

| <i>Indicator Category</i> | <i>Proposed Indicator</i> | <i>Total Value</i> | <i>Unit</i> |
|---|-----------------------------|--------------------|-------------|
| Water Pollution (Reduction Estimates) | Soil (Est. Savings) | 1280 | Tons/Yr |
| Pollution Prevention | Prevention | 1602 | Count |
| Water Pollution (Reduction Estimates) | Phosphorus (Est. Reduction) | 368 | Lbs/Yr |
| Water Pollution (Reduction Estimates) | Nitrogen | 7328 | Lbs/Yr |
| Pollution Prevention | Prevention | 6100 | Count |

| <i>Indicator Category</i> | <i>Final Indicator</i> | <i>Total Value</i> | <i>Unit</i> |
|---------------------------|------------------------|--------------------|-------------|
|---------------------------|------------------------|--------------------|-------------|

Grant Activities

Activity Name: Administration/Coordination

Activity Category: Administration/Coordination

Staff time?: Yes

Description: Beltrami SWCD will provide fiscal coordination and plan coordination.

Duties for fiscal coordination (Fiscal Agent) include:

- Accept all fiscal responsibilities with grant agreements applied for and received through the Mississippi River Headwaters Watershed Comprehensive Plan.
- Perform transactions as part of contract implementation.
- Provide accountability for all funds, report receipts, and disbursements, and provide a complete audit report annually.
- Provide Policy Committee and its members with records necessary to describe the financial condition of the grant agreements the Policy Committee reviews.
- Maintain responsibility for fiscal records retention consistent with the Fiscal Agent's records retention schedule until the Memorandum of Agreement is terminated and then financial records will be turned over to the Comprehensive Plan Coordinator.

Duties of the Plan Coordinator include:

- Handle all day-to-day administrative responsibilities with the ongoing planning and implementation of the Mississippi River Headwaters Watershed Comprehensive Plan.
- Be the day-to-day contact for the current Mississippi River Headwaters Watershed Comprehensive Plan and Grant Agreement and any subsequent grant agreements the Mississippi River Headwaters Watershed Comprehensive Plan may receive.
- Be responsible for BWSR and other grant reporting requirements.
- Assist the Policy Committee with the administrative details to oversee future planning and implementation of the Plan. Maintain the Mississippi River Headwaters Watershed Comprehensive Plan website and perform other duties to keep the Policy Committee, Advisory Committee, and Steering Team informed about the implementation of the Plan.
- Maintain communication and build relationships with agency partners to further implement and document accomplishments toward Plan goals.
- Track and measure progress toward goals/milestones and maintain database tracking systems.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|--|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$65,000.00 | \$7,515.84 | \$57,484.16 | 01/31/2025 | N |
| Actual Results | | | | | | |
| Administration and coordination of meetings, tracking grant funds and public relations with all partner organizations. | | | | | | |

Activity Name: Non-Structural Management

Activity Category: Non-Structural Management Practices **Staff time?:** Yes

Description: Assist landowners with implementing soil health practices and grazing management, assist with agricultural water certification, and promote nutrient management program participation. These initiatives will accomplish goals outlined in the Mississippi River Headwaters Watershed Comprehensive Plan on page 74 and 75 within 9 priority lake watersheds. Priority watersheds were based the HSPF model and used a value model based on local soils, slope, and proximity to streams resulting in targeting 1600 acres.

Activities include:

Soil health BMPs-Install soil health practices and enhancements on agricultural lands, focusing on conservation tillage and residue management, cover crops and filter strips, and nutrient management. Soil health practices will be targeted over 1600 acres in 2024 and 2025 and provide enhance farm practices will be based on priority ranked lake resources and targeted based on soil erodibility, field elevations, and proximity to water conveyance.

Grazing BMPs-Implement grazing management systems including grazing management plans, fencing, water sourcing, and silva-pasturing. Grazing management systems will be targeted towards several new designs based on priority ranked lake resources and targeted based on soil erodibility, field elevations, and proximity to water conveyance.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$125,000.00 | | \$125,000.00 | | N |

| |
|-----------------------|
| Actual Results |
| No funds spent |

Activity Name: Planning and Assessment

| | |
|---|-------------------------|
| Activity Category: Planning and Assessment | Staff time?: Yes |
|---|-------------------------|

Description: Planning and assessment efforts will support current programs identified in the 2024-2026 implementation funding and future projects and practices.

Activities include:

Forest plans-Cost-share program for private forest management plans. The cost-share program will supplement MN DNR program funding for forest management plans or provide standalone funding if MN DNR cost-share funding is unavailable. Targeted areas will include privately owned forests > 20 acres in size, and landowners must be willing to enroll in Sustainable Forest Incentive Act or similar protection program. The goal will be to complete plans that include actions to further guidance on implementing the forest plan. Our goal will be to complete plans covering 6100 acres and enroll these lands into a protection program.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$49,000.00 | | \$49,000.00 | | N |

Actual Results

| |
|----------------|
| No funds spent |
|----------------|

Activity Name: Project Development

Activity Category: Project Development

Staff time?: Yes

Description: Efforts will include measurable steps toward accomplishing goals and activities outlines in the plan. Funds will be used for partner staff time to perform the following activities:

- Easement delivery: Provide additional resources for outreach, planning, and general assistance in the easement application process.

- Outreach actions:

Outreach actives include but are not limited to connecting with landowners in events such as presenting to lake owners and lake associations, forestry outreach, targeted mailings, and hosting agricultural conservation discussions.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$215,000.00 | \$12,819.22 | \$202,180.78 | 01/31/2025 | N |

Actual Results

Administering projects throughout the watershed to connect with the public such as holding outreach activities.

Activity Name: Streambank or Shoreline Protection

Activity Category: Streambank or Shoreline Protection

Staff time?: Yes

Description: The streambank or shoreline protection initiatives will accomplish goals outlined in the Mississippi River Headwaters Comprehensive Plan. Planning and assessment efforts will support current programs identified in the 2024-2026 implementation funding and future projects and practices.

Activities include:

Lakeshore stormwater, buffers, and shoreline restoration-Complete shoreline stabilization practices on priority lakes in the Mississippi River Headwaters Watershed to protect infrastructure and prevent erosion, sedimentation, and damaged areas from high water events. Projects include four stormwater BMPs, 2290 linear feet of buffer installation, and 200 linear feet of shoreline restoration.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$105,000.00 | | \$105,000.00 | | N |

Actual Results

No funds spent

Activity Name: Supplies and Equipment

Activity Category: Supplies/Equipment

Staff time?: No

Description: Acquisition of a street sweeper to be used in the City of Bemidji.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|--------------------|--|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Local Fund | City of Bemidji providing 50% cost of street sweeper | \$125,000.00 | | \$125,000.00 | | Y |

Actual Results

No funds spent

Activity Name: Technical Assistance

Activity Category: Technical/Engineering Assistance

Staff time?: Yes

Description: This activity provides funding for technical staff time from the local SWCD with appropriate JAA to implement those practices that address goals identified within the comprehensive plan. Staff credentials can be viewed at their respective offices. If JAA is not available, NRCS engineering assistance or private engineering with the applicable appropriate licensure/credentials for practice investigation, design, and construction will be utilized. All practices will follow the NRCS Field Office Technical Guide (FOTG), MN Stormwater Manual, or be a professionally accepted engineering or ecological practice methods to ensure that the requirements for the Technical Quality Assurances are met. It is anticipated that existing staff will utilize 70-75% of this funding, while private professional engineers will account for 20-25%.

The billable rate for technical staff working on BMP activities associated with technical site assessment, surveys, preliminary analysis and design, final design, construction supervision, installation, inspection, and completion of projects funded by this grant.

See attached Staff Rate/Hours

Activities include:

- Utilize local engineers and/or private consultants to compete field investigations, surveys, construction inspections, and designs for stormwater, shoreline stabilizations, dams and/or culverts for projects conducted through watershed-based implementation funding.
- Technical staff assistance for soil health (hours), grazing management, forestry actions, lakeshore, urban stormwater, ditch checks, and agricultural water certification/nutrient management.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$220,000.00 | \$1,443.34 | \$218,556.66 | 01/31/2025 | N |

Actual Results

Technical assistance provided to landowners throughout the watershed.

Activity Name: Urban Stormwater Management Practices

Activity Category: Urban Stormwater Management Practices

Staff time?: Yes

Description: The urban stormwater initiatives will accomplish goals outlined in the Mississippi River headwaters Comprehensive Plan. Planning and assessment efforts will support current programs identified in the 2024-2026 implementation funding and future projects and practices. Projects such as rain gardens will have a 10-year lifespan whereas larger stormwater projects will have a 25-year lifespan it is anticipated these projects.

Activities include:

Stormwater BMPs-Installation of multiple stormwater BMPs based on retro-fit analysis.

Two Stormwater BMPs

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | Mississippi River Headwaters Watershed Based Implementation | \$234,278.00 | | \$234,278.00 | | N |

Actual Results

No funds spent



Grant Progress Report

One Watershed One Plan 2023

Grant Title: 2023 - One Watershed One Plan (Beltrami SWCD)

Grant ID: P23-4981

Grantee: Beltrami SWCD

Fiscal Agent:

Grant Day-to-Day Contact: Katelyn Bergstrom

Grant Award (\$): \$242,000.00

Required Match (%): 0

Required Match (\$): \$0.00

Grant Execution Date: 03/07/2023

Grant End Date: 06/30/2025

| | Total Budgeted | Total Spent | Balance Remaining* |
|--------------|---------------------|---------------------|--------------------|
| Grant Funds | \$242,000.00 | \$172,298.64 | \$69,701.36 |
| Match Funds | \$0.00 | \$0.00 | \$0.00 |
| Other Funds | \$0.00 | \$0.00 | \$0.00 |
| Total | \$242,000.00 | \$172,298.64 | \$69,701.36 |

*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

Budget Details

| Activity Name | Category | Source Type | Source Description | Budgeted | Spent | Balance Remaining | Match Fund? |
|----------------------------------|-----------------------------|---------------------|---|--------------|--------------|-------------------|-------------|
| 1W1P Administration/Coordination | Administration/Coordination | Current State Grant | 2023 - One Watershed One Plan (Beltrami SWCD) | \$34,000.00 | \$21,297.52 | \$12,702.48 | N |
| 1W1P Planning and Assessment | Planning and Assessment | Current State Grant | 2023 - One Watershed One Plan (Beltrami SWCD) | \$208,000.00 | \$151,001.12 | \$56,998.88 | N |

Grant Activities

| Activity Name: 1W1P Administration/Coordination | | | | | | |
|---|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Activity Category: Administration/Coordination | | | | | | Staff time?: No |
| Description: Beltrami SWCD is the fiscal agent for the grant and will track expenses and prepare financial reports for the Policy Committee. Beltrami SWCD staff will complete the required reporting in eLINK including interim and annual reports. Staff billable rate is \$54.45/hour. | | | | | | |
| Budget Details | | | | | | |
| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
| Current State Grant | 2023 - One Watershed One Plan (Beltrami SWCD) | \$34,000.00 | \$21,297.52 | \$12,702.48 | 01/23/2025 | N |
| Actual Results | | | | | | |
| Activities completed as described above. | | | | | | |
| Activities completed as described above. | | | | | | |

| Activity Name: 1W1P Planning and Assessment | | | | | | |
|---|---|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Activity Category: Planning and Assessment | | | | | | Staff time?: No |
| Description: Contract and collaborate with consultant to develop and approve the Upper/Lower Red Lake One Watershed, One Plan completing the tasks: 1.1, 1.3, 1.4, 1.5, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3, and 3.4. The budget for this category includes a 10% contingency. | | | | | | |
| Budget Details | | | | | | |
| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
| Current State Grant | 2023 - One Watershed One Plan (Beltrami SWCD) | \$208,000.00 | \$151,001.12 | \$56,998.88 | 01/23/2025 | N |

Actual Results

Planning activities and related purchases toward completing the Upper/Lower Red Lake 1W1P.

Contracted with local engineering firm to consult, lead planning meetings, and write draft plan. Current complete draft sections of plan include the Land and Water Resources Narrative, Issue/Resource Identification and Prioritization, and Measurable Goals and Implementation. Additional planning activities included hosting two public kickoff meetings as well as monthly Advisory and Policy Committee meetings.

Planning activities and related purchases toward completing the Upper/Lower Red Lake 1W1P including working with engineering firm to write plan, conduct stormwater retrofit analysis, and hosted events for committee members and public engagement.