



# Grant Work Plan

## Watershed Based Implementation FEB 2022

**Grant Title:** 2022/2023 Yellow Medicine River Watershed Based Funding

**Grant ID:** C22-6389

**Grantee:** Yellow Medicine River WD

**Fiscal Agent:** Yellow Medicine River WD

**Grant Day-to-Day Contact:** Michelle Overholser

**Grant Award (\$):** \$1,156,688.00

**Amended Grant Award (\$):**

\$1,156,688.00

**Required Match (%):** 10

**Required Match (\$):** \$115,668.80

**Grant Execution Date:** 06/10/2022

**Grant End Date:** 12/31/2024

**Amended Grant End Date:**

	Total Budgeted	Total Spent	Balance Remaining*
<b>Grant Funds</b>	\$1,156,688.00	<b>\$776,863.37</b>	\$379,824.63
<b>Match Funds</b>	\$115,668.80	<b>\$0.00</b>	\$115,668.80
<b>Other Funds</b>	\$33,733.58	<b>\$33,733.58</b>	\$0.00
<b>Total</b>	\$1,306,090.38	<b>\$810,596.95</b>	\$495,493.43

\*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?
Admin	Administration/Coordination	Current State Grant	2022/2023 Yellow Medicine River Watershed Based Funding	\$50,000.00	\$50,000.00	\$0.00	N
2023-009 Long 638	Agricultural Practices	Current State Grant	2022/2023 Yellow Medicine River Watershed Based Funding	\$12,019.69	\$12,019.69	\$0.00	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>
2023-009 Long 638	Agricultural Practices	Other Funds	2023 - State Cost-Share Fund (Lyon SWCD)	\$2,403.94	\$2,403.94	\$0.00	N
Priority BMP Implementation	Agricultural Practices	Current State Grant	2022/2023 Yellow Medicine River Watershed Based Funding	\$966,026.45	\$600,341.82	\$365,684.63	N
2023-031 Eidem Cover Crops	Agricultural Practices	Current State Grant	2022/2023 Yellow Medicine River Watershed Based Funding Phase II	\$113,210.36	\$113,210.36	\$0.00	N
2023-031 Eidem Cover Crops	Agricultural Practices	Other Funds	2020/2021 Yellow Medicine River Watershed Based Funding Phase II	\$31,329.64	\$31,329.64	\$0.00	N
Priority BMP Implementation	Agricultural Practices	Federal Funds	Federal EQIP funds	\$115,668.80		\$115,668.80	Y
Planning and Assessment	Planning and Assessment	Current State Grant	2022/2023 Yellow Medicine River Watershed Based Funding	\$0.00		\$0.00	N
Technical/Engineering Assistance	Technical/Engineering Assistance	Current State Grant	2022/2023 Yellow Medicine River Watershed Based Funding	\$15,431.50	\$1,291.50	\$14,140.00	N

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Nitrogen	16000	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	800	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	300	Tons/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Nitrogen	4153.546	Lbs/Yr
Water Pollution (Reduction Estimates)	Nutrients (Nitrate)	325	Lbs/Yr
Water Pollution (Reduction Estimates)	Pathogens (E. Coli)	2.9	Cfu
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	367.7956	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	87.20385	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	1	Tons/Yr
Water Pollution (Reduction Estimates)	Nitrogen	984	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	67	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	51.1	Tons/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Estimates)			
Water Pollution (Reduction Estimates)	Nitrogen	18.8	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	2.5	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.08	Tons/Yr

## Grant Activities

<b>Activity Name: 2023-009 Long 638</b>						
<b>Activity Category:</b> Agricultural Practices					<b>Staff time?:</b> No	
<b>Description:</b> 638 Water and Sediment control basins. 12019.69 paid out of WBIF funds, and \$2,403.94 paid out of Lyon SWCD cost share						
<b>Budget Details</b>						
<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	2022/2023 Yellow Medicine River Watershed Based Funding	\$12,019.69	\$12,019.69	\$0.00	01/17/2024	N
Current State Grant	2023 - State Cost-Share Fund (Lyon SWCD)	\$2,403.94	\$2,403.94	\$0.00	12/21/2023	N
<b>Actual Results</b>						
2 water and sediment control basins to combat gully erosion in Lucas 12. Farmable basins were constructed but narrow based pricing was used for payment, WBIF paid \$12,019.69 of the project and Lyon SWCD paid \$2,403.94. - Total project cost \$20,295.00. (\$16,026.25 Amended Total)						

<b>Final Indicators</b>		
<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Sediment (Tss)	0.08	Tons/Yr
Phosphorus (Est. Reduction)	2.5	Lbs/Yr
Nitrogen	18.8	Lbs/Yr

Activity Action Name: 2023-009 Chris Long	Activity Count: 2
Practice Type: 638 - Water and Sediment Control Basin	Size/Units: 15.3 - Count
TA Provider/JAA: TSA	Lifespan: 10 Years
Practice Description: Water and sediment control basins	Install Date: 11/14/2023
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nitrogen	Lbs/Yr	18.8	Simple Method (MPCA)	JD 10
Phosphorus (Est. Reduction)	Lbs/Yr	2.5	Simple Method (MPCA)	JD 10
Sediment (Tss)	Tons/Yr	0.08	Simple Method (MPCA)	JD 10

## Activity Name: 2023-031 Eidem Cover Crops

<b>Activity Category:</b> Agricultural Practices	<b>Staff time?:</b> No
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**Description:** 438 Acres of Cover Crops. \$31,329.64 is paid from the 20/21 Grant and \$113,210.36 is paid from the 22/23 Grant.

### 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	2022/2023 Yellow Medicine River Watershed Based Funding Phase II	\$113,210.36	\$113,210.36	\$0.00	12/18/2023	N
Current State Grant	2020/2021 Yellow Medicine River Watershed Based Funding Phase II	\$31,329.64	\$31,329.64	\$0.00	12/18/2023	N

### Actual Results

438 Acres of 340 Cover Crops and 438 Acres of 329 Reduced tillage was installed for it's first year of the 3 year contract. This project was reported to result in the reduction of 984 lbs/yr of nitrogen, 67 lbs/year of phosphorus and 51 ton/year of Total suspended solids.

### Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Sediment (Tss)	51.1	Tons/Yr
Nitrogen	984	Lbs/Yr
Phosphorus (Est. Reduction)	67	Lbs/Yr

Activity Action Name:	2023-031 Mitch Eidem	Activity Count: 1
Practice Type:	340 - Cover Crop	Size/Units: 438 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	438 Acres of Cover Crops	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	30.5	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	31.2	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	799.4	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-031 Mitch Eidem	Activity Count: 1
Practice Type:	329 - Residue & Tillage Management (no/strip-till)	Size/Units: 438 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	438 Acres of Reduced Tillage	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	35.8	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	184.6	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	20.6	Simple Method (MPCA)	Yellow Medicine River

## Activity Name: Admin

**Activity Category:** Administration/Coordination

**Staff time?:** Yes

**Description:** The Yellow Medicine River Watershed District will act as the fiscal agent for this grant. Activities include, tracking expenses, grant management, tracking plan progress, contract management, and e-link reporting. Its is the responsibility of the Yellow Medicine Watershed District to ensure that all of the State of MN grant tracking a reporting requirements are met, including but not limited to eLINK progress report, fiscal year end Comprehensive Annual Financial Report (CAFR), and all requirements identified in the BWSR Grants Administration Manual. In addition to the track grant activities, the Watershed District will also track and communicate to its partners, progress made towards the goals and objectives cited in the Yellow Medicine Comprehensive Watershed Management Plan.

### 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	2022/2023 Yellow Medicine River Watershed Based Funding	\$50,000.00	\$50,000.00	\$0.00	04/30/2024	N

### Actual Results

No admin expenses charged to grant in 2022.

Administration and coordination of the YM1W1P for 2023. 384 hours at \$84.77. This included preparing for and conducting meetings, Reviewing contracts and invoices and entering all the data into elink and our internal tracking programs.

## Activity Name: Data Collections

**Activity Category:** Monitoring/Data Collection

**Staff time?:** No

**Description:** To pay for the development or implementation of a tracking tool that could be used as a central database to track progress on projects completed inside the watershed district.

### Actual Results

No data collection expenses charged to grant in 2022. Budget for data collection has been allocated to other activities.

## Activity Name: Equipment

**Activity Category:** Supplies/Equipment

**Staff time?:** Yes

**Description:** To purchase any equipment that may be needed to implement and achieve the goals and objectives identified in the Yellow Medicine Comprehensive Watershed Management Plan. This may include, but is not limited to: design software, GIS software, survey equipment, motor vehicle, drone equipment, computer and other software. All equipment purchases will help in the implementation of the priorities identified in the Yellow Medicine Comprehensive Watershed Management Plan.

### Actual Results

No equipment expenses charged to grant in 2022. Budget for equipment has been allocated to other activities.



## Activity Name: Planning and Assessment

**Activity Category:** Planning and Assessment

**Staff time?:** No

**Description:** Funds would be used to have a priority sub-watershed 9 element assessment completed. Fund will also be used to do an in depth analysis of storage areas and to also determine the feasibility of those projects or practices.

Funds may be used to pay for the development or implementation of a tracking tool that could be used as a central database to track progress on projects completed inside the watershed district.

### 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	2022/2023 Yellow Medicine River Watershed Based Funding	\$0.00		\$0.00		N

### Actual Results

No planning and assessment expenses charged to grant in 2022.

8/30/2023 \$65,000 (entire budget) was moved from planning and assessment to Priority BMPs. The YM1W1P was able to receive a Mid Point Planning grant that will assist the partnership in assessing how far we've come in our plan and where we are not meeting goals. While further planning and assesment is going to be needed, we feel at this time it is better to wait for those results before spending additional funds. The partnership feels that those funds would be better served as landowner cost-share at this time, as we have projects that are currently waiting for funding.

## Activity Name: Priority BMP Implementation

**Activity Category:** Agricultural Practices

**Staff time?:** No

**Description:** Implementing priority BMPs as identified in the plan implementation table for the 7 priority sub-watersheds in order to make progress towards the mitigation of altered hydrology goal and water quality goals outlined in section 4 of the plan. Specifically reducing sediment by 300 tons, reducing phosphorus by 800 lbs, and adding 100 acre-feet of water storage. Non-structural practices will have a 3-year lifespan, structural practices will have a 10-year lifespan and capital improvement projects will have a 25-year lifespan. ACPF and HSPF-SAMs will be used to target outreach and practices at a field scale level in the priority subwatershed. A local scoring and ranking process will be used for all projects funded by this grant. Projects that don't meet the local scoring threshold will not receive funding or will go the policy committee for additional consideration. The Yellow Medicine Watershed District will hold the cost share contracts and has adopted a cost share policy that has the approval of all the partners.

### 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	2022/2023 Yellow Medicine River Watershed Based Funding	\$966,026.45	\$600,341.82	\$365,684.63	05/15/2024	N
Federal Funds	Federal EQIP funds	\$115,668.80		\$115,668.80		Y

### Actual Results

8/30/2023 \$65,000 was moved from planning and assessment to Priority BMPs. The YM1W1P was able to receive a Mid Point Planning grant that will assist the partnership in assessing how far we've come in our plan and where we are not meeting goals. While further planning and assesment is going to be needed, we feel at this time it is better to wait for those results before spending additional funds. The partnership feels that those funds would be better served as landowner cost-share at this time, as we have projects that are currently waiting for funding.

8/30/2023 \$134,568.50 was moved from Technical Services to Priority BMPs. Our primary engineering has been done by TSA and due to a budget surplus, they decided to not charge the YM1W1P for engineering services for 2023, thus we did not need the full amount budgeted.

In 2023 this grant enabled the partnership to assist landowners with installing 6 Water and sediment control basins, 2 grade stabilizations, 2 grass waterways and 9 alternative tile intakes. There was also 1315 ac of cover crops installed and 320 acres received an incentive for reduced tillage. In 2023 \$545,015.12 was spent of in this category.

**Final Indicators**

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Phosphorus (Est. Reduction)	367.7956	Lbs/Yr
Soil (Est. Savings)	1	Tons/Yr
Pathogens (E. Coli)	2.9	Cfu
Sediment (Tss)	87.20385	Tons/Yr
Nutrients (Nitrate)	325	Lbs/Yr
Nitrogen	4153.546	Lbs/Yr

Activity Action Name: 2023-016 Gary Labat	Activity Count: 9
Practice Type: 164M - Sediment Removal	Size/Units:
TA Provider/JAA: TSA	Lifespan: 10 Years
Practice Description: Alternative Tile intakes	Install Date: 12/18/2023
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	17.4	Simple Method (MPCA)	JD 24
Sediment (Tss)	Tons/Yr	3.5	Simple Method (MPCA)	JD 24
Nitrogen	Lbs/Yr	60.3	Simple Method (MPCA)	JD 24

Activity Action Name:	2023-033 Lee Family Trust	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units:
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Sediment Basins	Install Date: 01/17/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	38.9	Simple Method (MPCA)	JD 24
Sediment (Tss)	Tons/Yr	6.2	Simple Method (MPCA)	JD 24
Nitrogen	Lbs/Yr	303.6	Simple Method (MPCA)	JD 24

Activity Action Name:	2023-024 Chad Olsen	Activity Count: 1
Practice Type:	340 - Cover Crop	Size/Units: 41.1 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	41.1 Acres of Cover Crops	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	2.8	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	2.8	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	74	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-012 Gary Vanderostyne	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 9.9 - Count
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Installed 2 Basins	Install Date: 11/03/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.3	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	2.5	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	24.3	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-001 Steve Citterman	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 17 - Count
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Installed 1 Basin	Install Date: 11/13/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nitrogen	Lbs/Yr	27.2	Simple Method (MPCA)	Yellow Medicine
Sediment (Tss)	Tons/Yr	0.6	Simple Method (MPCA)	Yellow Medicine
Phosphorus (Est. Reduction)	Lbs/Yr	2.8	Simple Method (MPCA)	Yellow Medicine

Activity Action Name:	2023-004 Mark Boulton	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 116 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Installed 1 Waterway	Install Date: 08/28/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	13.6	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	2.3	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	73.7	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-005 Mark Boulton	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 31 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Installed 1 Waterway	Install Date: 08/28/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nitrogen	Lbs/Yr	17.8	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	1	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	3.7	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-032 David Sterzinger	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 8 - Count
TA Provider/JAA:	TSA	Lifespan: 20 Years
Practice Description:	Installed 1 Basin	Install Date: 09/20/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nitrogen	Lbs/Yr	13.49	Simple Method (MPCA)	Ash Lake
Sediment (Tss)	Tons/Yr	0.2204	Simple Method (MPCA)	Ash Lake
Phosphorus (Est. Reduction)	Lbs/Yr	1.495	Simple Method (MPCA)	Ash Lake

Activity Action Name:	2023-021 Robert Gorecki	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 2.8 - Count
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Installed 1 Basin	Install Date: 11/01/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	0.6006	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	0.08345	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	5.356	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-003 Dorothy Zimmerman	Activity Count: 2
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 140.3 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	2 412 Grassed waterways	Install Date: 01/10/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	2.9	Simple Method (MPCA)	Yellow Medicine
Nitrogen	Lbs/Yr	105.6	Simple Method (MPCA)	Yellow Medicine
Phosphorus (Est. Reduction)	Lbs/Yr	19	Simple Method (MPCA)	Yellow Medicine

Activity Action Name:	2023-023 Adam Popowski	Activity Count: 1
Practice Type:	340 - Cover Crop	Size/Units: 60 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	60 acres of cover crops	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	1.5	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	3.1	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	90.5	Simple Method (MPCA)	Yellow Medicine River



Activity Action Name:	2023-023 Adam Popowski	Activity Count: 1
Practice Type:	329 - Residue & Tillage Management (no/strip-till)	Size/Units: 60 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	60 acres of reduced tillage	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	3.5	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	1	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	20.8	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-008 Kevin Swedzinski	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units:
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	2 638 Water and Sediment Control Basin	Install Date: 12/01/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.6	Simple Method (MPCA)	Yellow Medicine
Nitrogen	Lbs/Yr	30.4	Simple Method (MPCA)	Yellow Medicine
Phosphorus (Est. Reduction)	Lbs/Yr	3.1	Simple Method (MPCA)	Yellow Medicine

Activity Action Name:	2022-009 Nibbe	Activity Count: 1
Practice Type:	410 - Grade Stabilization Structure	Size/Units:
TA Provider/JAA:	Other	Lifespan: 10 Years
Practice Description:	Reconstruction of a grade stab	Install Date: 08/16/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nitrogen	Lbs/Yr	174.4	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	3.6	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	17.7	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-006 Dybsetter Farms	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 526.4 - Acres
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	1 Grassed Waterway	Install Date: 01/16/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nitrogen	Lbs/Yr	396.9	Simple Method (MPCA)	Yellow Medicine
Sediment (Tss)	Tons/Yr	10.8	Simple Method (MPCA)	Yellow Medicine
Phosphorus (Est. Reduction)	Lbs/Yr	71.2	Simple Method (MPCA)	Yellow Medicine

Activity Action Name:	2023-020 David Sterzinger	Activity Count: 1
Practice Type:	329 - Residue & Tillage Management (no/strip-till)	Size/Units: 11.3 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	11.3 acres of reduced tillage	Install Date: 09/20/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.2	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	1	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	5.7	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-020 David Sterzinger	Activity Count: 1
Practice Type:	340 - Cover Crop	Size/Units: 11.3 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	11.3 Acres of Cover Crops	Install Date: 09/20/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	1	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	24.6	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	0.2	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-019 Ben Jerzak	Activity Count: 1
Practice Type:	340 - Cover Crop	Size/Units: 101.3 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	101.3 Acres in Cover Crops	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	2.5	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	152.3	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	5.2	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-019 Ben Jerzak	Activity Count: 1
Practice Type:	329 - Residue & Tillage Management (no/strip-till)	Size/Units: 101.3 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	101.3 Acres of Reduced tillage	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	6	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	35	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	1.7	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-013 Carr Farms Partnership	Activity Count: 1
Practice Type:	410 - Grade Stabilization Structure	Size/Units:
TA Provider/JAA:	Other	Lifespan: 10 Years
Practice Description:	Grade Stabilization reconstruction	Install Date: 04/19/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	23.9	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	4.9	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	235.1	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-018 Dale Sterzinger	Activity Count: 1
Practice Type:	340 - Cover Crop	Size/Units: 11 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	Cover Crops	Install Date: 08/23/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.2	Simple Method (MPCA)	Yellow Medicine
Phosphorus (Est. Reduction)	Lbs/Yr	0.9	Simple Method (MPCA)	Yellow Medicine
Nitrogen	Lbs/Yr	24.6	Simple Method (MPCA)	Yellow Medicine

Activity Action Name:	2023-017 Fierview Dairy	Activity Count: 1
Practice Type:	340 - Cover Crop	Size/Units: 563.2 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	563.2 Acres of Cover Crops	Install Date: 08/16/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	14.2	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	848.9	WEPP (Water Erosion Prediction Project)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	28.9	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-018 Dale Sterzinger	Activity Count: 1
Practice Type:	329 - Residue & Tillage Management (no/strip-till)	Size/Units: 11 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	No Till	Install Date: 08/23/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nitrogen	Lbs/Yr	13.5	Simple Method (MPCA)	Yellow Medicine
Sediment (Tss)	Tons/Yr	0.3	Simple Method (MPCA)	Yellow Medicine
Phosphorus (Est. Reduction)	Lbs/Yr	2.1	Simple Method (MPCA)	Yellow Medicine

Activity Action Name:	3023-030 David Popowski	Activity Count: 1
Practice Type:	340 - Cover Crop	Size/Units: 132.14 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	132.14 Acres of Cover Crops	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	2.8	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	295.2	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	10.4	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-029 Nancy Popowski	Activity Count: 1
Practice Type:	340 - Cover Crop	Size/Units: 102.5 - Acres
TA Provider/JAA:	TSA	Lifespan: 3 Years
Practice Description:	102.5 Acres of Cover Crops	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	2.2	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	8.2	Simple Method (MPCA)	Yellow Medicine River
Nitrogen	Lbs/Yr	230.4	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-029 Nancy Popowski	Activity Count: 1
Practice Type:	329 - Residue & Tillage Management (no/strip-till)	Size/Units: 102.5 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	102.5 Acres of Reduced Tillage	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nitrogen	Lbs/Yr	53	Simple Method (MPCA)	Yellow Medicine River
Sediment (Tss)	Tons/Yr	1.5	Simple Method (MPCA)	Yellow Medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	9.4	Simple Method (MPCA)	Yellow Medicine River

Activity Action Name:	2023-027 Mitch Kling	Activity Count: 1
Practice Type:	329 - Residue & Tillage Management (no/strip-till)	Size/Units: 35 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	Reduced Tillage on 35 acres	Install Date: 10/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	1	Simple Method (MPCA)	Stony Run
Phosphorus (Est. Reduction)	Lbs/Yr	2.5	Simple Method (MPCA)	Stony Run
Nitrogen	Lbs/Yr	73.6	Simple Method (MPCA)	Stony Run



Activity Action Name: 2023-027 Mitch Kling				Activity Count: 1
Practice Type: 340 - Cover Crop				Size/Units: 35 - Acres
TA Provider/JAA: SWCD				Lifespan: 3 Years
Practice Description: 35 Acres of Cover Crops				Install Date: 10/18/2023
				Mapped: Yes
Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.7	Simple Method (MPCA)	Stony Run
Nitrogen	Lbs/Yr	16.5	Simple Method (MPCA)	Stony Run
Pathogens (E. Coli)	Cfu	2.9	Simple Method (MPCA)	Stony Run

Activity Action Name: 2023-026 Blake Giestfeld				Activity Count: 1
Practice Type: 340 - Cover Crop				Size/Units: 80 - Acres
TA Provider/JAA: SWCD				Lifespan: 3 Years
Practice Description: 80 Acres of Cover Crops				Install Date: 11/15/2023
				Mapped: Yes
Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	4.8	Simple Method (MPCA)	JD 10
Nitrogen	Lbs/Yr	140	Simple Method (MPCA)	JD 10
Sediment (Tss)	Tons/Yr	3	Simple Method (MPCA)	JD 10

Activity Action Name:	2023-025 Cody Runholt	Activity Count: 1
Practice Type:	340 - Cover Crop	Size/Units: 280 - Acres
TA Provider/JAA:	SWCD	Lifespan: 3 Years
Practice Description:	280 Acres of Cover Crops	Install Date: 12/18/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	7.8	Simple Method (MPCA)	JD 24
Nitrogen	Lbs/Yr	558.8	Simple Method (MPCA)	JD 24
Phosphorus (Est. Reduction)	Lbs/Yr	20.4	Simple Method (MPCA)	JD 24

Activity Action Name:	2023-015 Jerzak	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units:
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	2 water and sediment control basins	Install Date: 03/20/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	1	Simple Method (MPCA)	Yellow medicine River
Nitrogen	Lbs/Yr	28	Simple Method (MPCA)	Yellow medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	2.7	Simple Method (MPCA)	Yellow medicine River

Activity Action Name:	2023-007 Albertson	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units:
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Water and sediment control basin	Install Date: 05/15/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	2.2	Simple Method (MPCA)	Yellow medicine River
Nutrients (Nitrate)	Lbs/Yr	108.5	Simple Method (MPCA)	Yellow medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	13	Simple Method (MPCA)	Yellow medicine River

Activity Action Name:	2023-007 Albertson	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units:
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Water and sediment control basins	Install Date: 05/14/2024
		Mapped: No

Indicator Name	Units	Value	Calculation Tool	Waterbody
Nutrients (Nitrate)	Lbs/Yr	108	Simple Method (MPCA)	Yellow medicine River
Sediment (Tss)	Tons/Yr	2.2	Simple Method (MPCA)	Yellow medicine River
Phosphorus (Est. Reduction)	Lbs/Yr	13	Simple Method (MPCA)	Yellow medicine River

Activity Action Name:	2023-007 Albertson	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units:
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	2 sediment and control basins	Install Date: 05/15/2024
		Mapped: No

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	13	Simple Method (MPCA)	Yellow medicine River
Nutrients (Nitrate)	Lbs/Yr	108.5	Simple Method (MPCA)	Yellow medicine River
Sediment (Tss)	Tons/Yr	2.2	Simple Method (MPCA)	Yellow medicine River

## Activity Name: Technical/Engineering Assistance

**Activity Category:** Technical/Engineering Assistance

**Staff time?:** No

**Description:** These funds will be used for technical services and/or staff time. The technical assistance provider(s) must have appropriate credentials for practice investigation, design, and construction. This will ensure that practices implemented with these funds will meet the FOTG technical standards, MN Stormwater Manual, or be a professionally accepted engineering or ecological practice and ensures that the requirements for the Technical Quality Assurances are met.

### 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	2022/2023 Yellow Medicine River Watershed Based Funding	\$15,431.50	\$1,291.50	\$14,140.00	08/15/2023	N

## Actual Results

No expenses were charged to the grant in 2022.

8/30/2023 \$134,568.50 was moved from Technical Services to Priority BMPs. Our primary engineering has been done by TSA and due to a budget surplus, they decided to not charge the YM1W1P for engineering services for 2023, thus we did not need the full amount budgeted of \$150,000. \$15,431.50 remains budgeted.