



# Grant Work Plan

## Watershed Based Implementation Funding Phase I 2020

**Grant Title:** Leech Lake River Watershed Implementation

**Grant Award (\$):** \$598,115.00

**Grant Execution Date:** 03/20/2020

**Grant ID:** C20-9358

**Required Match (%):** 10

**Grant End Date:** 12/31/2022

**Grantee:** Cass SWCD

**Required Match (\$):** \$59,811.50

**Fiscal Agent:** Cass SWCD

**Grant Day-to-Day Contact:** Dana Gutzmann

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$598,115.00	\$598,115.00	\$0.00
Match Funds	\$60,000.00	\$630,457.62	(\$570,457.62)
Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	\$658,115.00	\$1,228,572.62	(\$570,457.62)

\*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?
Grant Administration	Administration/Coordination	Current State Grant	Leech Lake River Watershed Implementation	\$7,711.32	\$7,711.32	\$0.00	N
Agricultural BMP's	Agricultural Practices	Current State Grant	Leech Lake River Watershed Implementation	\$47,851.44	\$47,851.44	\$0.00	N
Private Forest	Forestry Practices	Current State Grant	Leech Lake River Watershed	\$24,659.79	\$24,659.79	\$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>
Management			Implementation				
Culvert Inventory and Database Creation	Inventory/Mapping	Current State Grant	Leech Lake River Watershed Implementation	\$7,165.19	\$7,165.19	\$0.00	N
Municipal Stormwater Mapping and Assessment	Inventory/Mapping	Current State Grant	Leech Lake River Watershed Implementation	\$19,992.43	\$19,992.43	\$0.00	N
Chloride Reduction 1	Non-Structural Management Practices	Current State Grant	Leech Lake River Watershed Implementation	\$30,000.00	\$30,000.00	\$0.00	N
Project Development	Project Development	Current State Grant	Leech Lake River Watershed Implementation	\$106,798.87	\$106,798.87	\$0.00	N
Shoreland stabilization and buffers	Streambank or Shoreline Protection	Current State Grant	Leech Lake River Watershed Implementation	\$51,142.13	\$51,142.13	\$0.00	N
Culvert Replacement 1	Streambank or Shoreline Protection	Current State Grant	Leech Lake River Watershed Implementation	\$122,848.38	\$122,848.38	\$0.00	N
Technical Services	Technical/Engineering Assistance	Current State Grant	Leech Lake River Watershed Implementation	\$63,525.45	\$63,525.45	\$0.00	N
City of Walker Stormwater BMP's	Urban Stormwater Management Practices	Local Fund	City of Walker	\$60,000.00	\$630,457.62	(\$570,457.62)	Y
City of Walker Stormwater BMP's	Urban Stormwater Management Practices	Current State Grant	Leech Lake River Watershed Implementation	\$116,420.00	\$116,420.00	\$0.00	N

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Sediment (Tss)	15	Tons/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Nitrogen	1.58	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	0.35	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	641	Tons/Yr
Water Pollution (Reduction Estimates)	Pathogens (E. Coli)	67	Cfu
Water Pollution (Reduction Estimates)	Chloride	30	Tons/Yr
Water Pollution (Reduction Estimates)	Nitrogen	16.5	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	3.28	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	3000	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	7	Lbs/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Estimates)			
Water Pollution (Reduction Estimates)	Sediment (Tss)	6	Tons/Yr
Water Pollution (Reduction Estimates)	Nitrogen	1.58	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	0.35	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	641	Tons/Yr

## Grant Activities

<b>Activity Name: Agricultural BMP's</b>						
<b>Activity Category:</b> Agricultural Practices					<b>Staff time?:</b> No	
<b>Description:</b> Work with agricultural producers to implement BMP's that maintain or enhance existing water quality. Most are beef producers that will need exclusion fences and alternate watering systems.						
<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	Leech Lake River Watershed Implementation	\$47,851.44	\$47,851.44	\$0.00	10/31/2022	N
<b>Actual Results</b>						
Installed BMP's to reduce high levels E. coli contamination in stream. Project included exclusion fencing, pumping plant, cattle shelter and stream buffer.						

Final Indicators		
<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Pathogens (E. Coli)	67	Cfu

Activity Action Name:	Pierce Well and Exclusion Installation	Activity Count: 1
Practice Type:	533 - Pumping Plant	Size/Units:
TA Provider/JAA:	NRCS	Lifespan: Unknown
Practice Description:	Installation of new pumping plant along with exclusion fencing.	Install Date: 08/15/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Pathogens (E. Coli)	Cfu	67	Other	Kabekona Creek

## Activity Name: Chloride Reduction

Activity Category: Special Projects	Staff time?: No
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**Description:** Work with Local Road Authorities to acquire new technology for reducing the amount of chloride needed annually.

### Actual Results

Assisted in purchasing chloride reduction equipment for Cass/Hubbard County Highway Dept. to be able to reduce winter chloride use by 30%, using salt brining equipment.

### Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Chloride	30	Tons/Yr

Activity Action Name:	Hubbard County Chloride Reduction	Activity Count: 1
Practice Type:	503M - Chloride - Reduction	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	Private Consultant	Lifespan: Unknown
Practice Description:	Purchase of Brining Equipment by Hubbard County Highway Dept.	Install Date:
		Mapped: No

Indicator Name	Units	Value	Calculation Tool	Waterbody
Chloride	Tons/Yr	15	Unknown	Kabekona Lake

Activity Action Name:	Cass County Chloride Reduction	Activity Count: 2
Practice Type:	503M - Chloride - Reduction	Size/Units: 2 - Acre-Feet/Yr
TA Provider/JAA:	Private Consultant	Lifespan: Unknown
Practice Description:	Purchase of Brining equipment for Cass County Highway Dept.	Install Date: 01/08/2021
		Mapped: No

Indicator Name	Units	Value	Calculation Tool	Waterbody
Chloride	Tons/Yr	15	Unknown	Leech Lake

## Activity Name: Chloride Reduction 1

**Activity Category:** Non-Structural Management Practices **Staff time?:** No

**Description:** Work with Local Road Authorities to acquire new technology for reducing the amount of chloride needed annually.

### 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	Leech Lake River Watershed Implementation	\$30,000.00	\$30,000.00	\$0.00	09/02/2022	N

## Actual Results

Assisted in purchasing chloride reduction equipment for Cass/Hubbard County Highway Dept. to be able to reduce winter chloride use by 30%, using salt brining equipment.

Activity Action Name:	Hubbard County Chloride Reduction	Activity Count: 1
Practice Type:	503M - Chloride - Reduction	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	Private Consultant	Lifespan: Unknown
Practice Description:	Purchase Brining Equipment for Hubbard County.	Install Date: 09/03/2021
		Mapped: No

Activity Action Name:	Cass County Chloride Reduction	Activity Count: 2
Practice Type:	503M - Chloride - Reduction	Size/Units: 2 - Acre-Feet/Yr
TA Provider/JAA:	Private Consultant	Lifespan: Unknown
Practice Description:	Purchase of Brining equipment for Cass County Highway Dept.	Install Date: 01/08/2021
		Mapped: No

## Activity Name: City of Walker Stormwater BMP's

**Activity Category:** Urban Stormwater Management Practices

**Staff time?:** No

**Description:** Purchase of 2 stormceptors that are part of a 4 million dollar storm water project being done in 2020. This project will remove 15 tons of sediment annually.

### 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	Leech Lake River Watershed Implementation	\$116,420.00	\$116,420.00	\$0.00	01/07/2021	N
Local Fund	City of Walker	\$60,000.00	\$630,457.62	(\$570,457.62)	12/01/2022	Y

### Actual Results

Cost-share project with the City of Walker on their Northside Street Project. We funded 2 "Preventer" sediment Control Structures designed to remove sediment, floating debris and associated nutrients from municipal stormwater prior to being discharged into Leech Lake. Also included was 84 ft. of 4' arched culvert to improve hydraulic connectivity and fish passage between Lake May and Leech Lake.

### Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Nitrogen	16.5	Lbs/Yr
Sediment (Tss)	3000	Tons/Yr
Phosphorus (Est. Reduction)	3.28	Lbs/Yr

Activity Action Name:	Lake May Creek Culvert Replacement	Activity Count: 1
Practice Type:	587 - Structure for Water Control	Size/Units: 84 - Cfu
TA Provider/JAA:	Private Consultant	Lifespan: Unknown
Practice Description:	Purchase and installation of a 84 foot squashed arch concrete culvert.	Install Date: 11/10/2020
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	500	Bwsr Calc (Stream & Ditch Stabilization)	Leech

Activity Action Name:	Stormwater Treatment Structures	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units: 2 - Acre-Feet/Yr
TA Provider/JAA:	Private Consultant	Lifespan: Unknown
Practice Description:	Installation of 2 Stormwater Manholes. (Preserver)	Install Date: 11/10/2020
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	2500	MIDS	Leech
Nitrogen	Lbs/Yr	16.5	NP-BMP Tool	Leech
Phosphorus (Est. Reduction)	Lbs/Yr	3.28	NP-BMP Tool	Leech

## Activity Name: Culvert Inventory and Database Creation

**Activity Category:** Inventory/Mapping

**Staff time?:** Yes

**Description:** Culverts within the identified priority watersheds will inventoried and assessed for function. Data will be compiled into the MN DNR database and local database. Activity will be done by either private individual of SWCD staff.

### 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	Leech Lake River Watershed Implementation	\$7,165.19	\$7,165.19	\$0.00	11/04/2021	N

### Actual Results

Completed 100% of the identified culverts in the priority subwatersheds in the Leech Lake River Watershed. All culvert locations have been uploaded to DNR database.

Activity Action Name:	Invoice for Culvert Inventory	Activity Count: 1
Practice Type:	304M - Drainage System Inventory	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	SWCD	Lifespan: Unknown
Practice Description:	Invoice for 34.5 hours of culvert inventory.	Install Date: 05/06/2021
		Mapped: No

Activity Action Name:	Invoice for culvert inspection	Activity Count: 1
Practice Type:	304M - Drainage System Inventory	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	SWCD	Lifespan: Unknown
Practice Description:	Invoice for 14.5 hours of Culvert Inspection	Install Date: 01/07/2021
		Mapped: No

Activity Action Name:	Invoice for Culvert Inventory	Activity Count: 1
Practice Type:	304M - Drainage System Inventory	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	SWCD	Lifespan: Unknown
Practice Description:	Invoice for 23.5 hours of culvert Inventory	Install Date: 06/03/2021
		Mapped: No

Activity Action Name:	Invoice forCulvert Inventory	Activity Count: 1
Practice Type:	304M - Drainage System Inventory	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	SWCD	Lifespan: Unknown
Practice Description:	Invoice for 1.5 Hours of Culvert Inventory	Install Date: 11/04/2021
		Mapped: No

Activity Action Name:	Invoice for Culvert Inventory	Activity Count: 1
Practice Type:	304M - Drainage System Inventory	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	SWCD	Lifespan: Unknown
Practice Description:	Invoice for 3 hours of culvert Inventory Kelly C	Install Date: 11/19/2020
		Mapped: No

Activity Action Name:	Invoice for Culvert Inventory Data Entry	Activity Count: 1
Practice Type:	304M - Drainage System Inventory	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	SWCD	Lifespan: Unknown
Practice Description:	Invoice for 10.5 hours of Culvert Inventory Data Entry	Install Date: 02/04/2021
		Mapped: No

Activity Action Name:	Invoice for Culvert Inventory	Activity Count: 1
Practice Type:	304M - Drainage System Inventory	Size/Units: 1 - Acre-Feet/Yr
TA Provider/JAA:	SWCD	Lifespan: Unknown
Practice Description:	Invoice for 53 hours of Culvert Inspection	Install Date: 12/03/2020
		Mapped: No

<b>Activity Name: Culvert Replacement</b>		
<b>Activity Category:</b> Special Projects		<b>Staff time?:</b> No
<b>Description:</b> Replacement or repositioning of culverts that have identified by watershed assessment or culvert inventory.		
<b>Actual Results</b>		
Installed 2 new culverts and related stormwater BMP's on the Boy River right by Big Deep Lake Outlet.		
<b>Final Indicators</b>		
<b>Indicator</b>	<b>Total Value</b>	<b>Unit</b>
Phosphorus (Est. Reduction)	0.35	Lbs/Yr
Sediment (Tss)	641	Tons/Yr
Nitrogen	1.58	Lbs/Yr

Activity Action Name:	17th Ave Culvert Replacement	Activity Count: 1
Practice Type:	584 - Stream Channel Stabilization	Size/Units: 68 - Cfu
TA Provider/JAA:	Private Consultant	Lifespan: Unknown
Practice Description:	Installation of 2 68' x 90" galvanized culverts and associated stormwater BMP's .	Install Date: 12/01/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	641	MIDS	Boy River
Phosphorus (Est. Reduction)	Lbs/Yr	0.35	MIDS	Boy River
Nitrogen	Lbs/Yr	1.58	MIDS	Boy River

## Activity Name: Culvert Replacement 1

**Activity Category:** Streambank or Shoreline Protection

**Staff time?:** No

**Description:** Replacement or repositioning of culverts that have identified by watershed assessment or culvert inventory.

### 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	Leech Lake River Watershed Implementation	\$122,848.38	\$122,848.38	\$0.00	12/01/2022	N

### Actual Results

Installed 2 new culverts and related stormwater BMP's on the Boy River right by Big Deep Lake Outlet.

Final Indicators		
<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Sediment (Tss)	641	Tons/Yr
Phosphorus (Est. Reduction)	0.35	Lbs/Yr
Nitrogen	1.58	Lbs/Yr

Activity Action Name:	17th Ave. Culvert Replacement	Activity Count: 1
Practice Type:	584 - Stream Channel Stabilization	Size/Units: 68 - Acre-Feet/Yr
TA Provider/JAA:	Private Consultant	Lifespan: Unknown
Practice Description:	Installation of 2 68' x 90" galvanized culverts and associated stormwater BMP's .	Install Date: 12/01/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	641	MIDS	Boy River
Nitrogen	Lbs/Yr	1.58	MIDS	Boy River
Phosphorus (Est. Reduction)	Lbs/Yr	0.35	MIDS	Boy River

## Activity Name: Grant Administration

<b>Activity Category:</b> Administration/Coordination	<b>Staff time?:</b> Yes
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**Description:** Cass SWCD was appointed fiscal agent for the grant. Its duties will include track grant expenditures, process payments, grant reporting and other financial obligations.

### 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	Leech Lake River Watershed Implementation	\$7,711.32	\$7,711.32	\$0.00	07/05/2022	N

**Actual Results**

Administered the Leech Lake River CWMP including meetings and fiscal responsibility and reporting.

**Activity Name: Municipal Stormwater Mapping and Assessment**

**Activity Category:** Inventory/Mapping

**Staff time?:** No

**Description:** Internal video inspection and GIS mapping of the 4 municipalities, Longville, Hackensack, Akeley and Federal Dam. Activity will be conducted using Johnson Jetline or similar company.

**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	Leech Lake River Watershed Implementation	\$19,992.43	\$19,992.43	\$0.00	11/17/2021	N

**Actual Results**

Hr Green Engineering completed surveys for the four identified municipalities in the watershed. All municipalities now have stormwater plans for each of the them.

Activity Action Name:	Stormwater Assessment	Activity Count: 4
Practice Type:	300M - Contaminant Source Inventory	Size/Units: 4 - Acre-Feet/Yr
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Payment for HR Green to complete Stormwater Assessment and Mapping of Hackensack, Longville, Laporte and Federal Dam	Install Date:
		Mapped: No

## Activity Name: Private Forest Management

**Activity Category:** Forestry Practices

**Staff time?:** No

**Description:** Utilizing DNR approved forest plan writers to enroll 5000 additional acres of PFM plans. Plan writers will be required to add section in plan specifically about Leech Lake River Comprehensive 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	Leech Lake River Watershed Implementation	\$24,659.79	\$24,659.79	\$0.00	12/01/2022	N

### Actual Results

Completed 38 Private Forest Management Plans on 4,536.78 acres in Cass/Hubbard in priority watersheds.

Activity Action Name:	Wayne Buckley PFM Plan-Kabekona River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 36 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Writing of a 36 Acre PFM Plan, located in the Kabekona River Priority Watershed.	Install Date: 02/17/2021
		Mapped: Yes

Activity Action Name:	Alber's Acres PFM Plan-Pleasant Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 272 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Writing of 272 acre PFM plan.	Install Date: 02/16/2021
		Mapped: Yes

Activity Action Name:	Albro's Leasing PFM Plan-Pleasant Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 39 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Writing of the Albro's Leasing PFM Plan	Install Date: 03/04/2021
		Mapped: Yes

Activity Action Name:	Greg Pelkey PFM Plan-Pleasant Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 160 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Greg Pelkey PFM Plan	Install Date: 04/01/2021
		Mapped: Yes

Activity Action Name:	Borg PFM Plan Kabekona River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 27 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	Cost Share for Borg PFM Plan	Install Date: 03/03/2022
		Mapped: Yes

Activity Action Name:	Gladen PFM Plan-Kabekona River	Activity Count: 2
Practice Type:	147M - Forestry Management	Size/Units: 100.12 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost share for Writing of Gladen PFM Plan.	Install Date: 03/01/2021
		Mapped: Yes

Activity Action Name:	Nelson West PFM Plan Woman Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 254 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for 254 Acre Nelson West PFM Plan	Install Date: 04/07/2022
		Mapped: Yes

Activity Action Name:	Nelson East PFM Plan Woman Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 311 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Nelson East PFM Plan located in Woman Lake Watershed	Install Date: 04/07/2022
		Mapped: Yes

Activity Action Name:	Notch Trust PFM Plan-Pleasant Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 77.8 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Notch Trust located in Pleasant Lake Sub Watershed	Install Date: 05/05/2022
		Mapped: Yes

Activity Action Name:	Knaak PFM Plan-Woman Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 37 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Darwin Knaak PFM Plan	Install Date: 05/05/2022
		Mapped: Yes

Activity Action Name:	Buck Family Trust PFM Plan-Woman Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 75.64 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Buck PFM Plan	Install Date: 05/05/2022
		Mapped: Yes

Activity Action Name:	Stone PFM Plan-Necktie River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 105.59 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	75 %Cost Share for Stone PFM Plan.	Install Date: 05/23/2022
		Mapped: Yes

Activity Action Name:	Eberlein PFM Plan-Shingobee River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 54 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Eberlein PFM Plan	Install Date: 07/01/2021
		Mapped: Yes

Activity Action Name:	Soucie PFM Plan-Necktie River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 429 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Flat Rate Cost Share for 429 acre plan	Install Date: 08/06/2021
		Mapped: Yes

Activity Action Name:	Bofferding PFM Plan-Steamboat River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 165 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Thomas Bofferding PFM Plan.	Install Date: 08/04/2022
		Mapped: Yes

Activity Action Name:	Ashley Nelson PFM Plan-Boy Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 37 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Ashley Nelson PFM Plan	Install Date: 08/04/2022
		Mapped: Yes

Activity Action Name:	Thelen PFM Plan-Steamboat River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 39.36 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost share for the writing of a 39.36 acre PFM Plan located in the Steamboat River Watershed.	Install Date: 07/06/2021
		Mapped: Yes

Activity Action Name:	Koenig PFM Plan-Steamboat River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 39 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cot Share for Koenig PFM Plan	Install Date: 02/19/2021
		Mapped: Yes

Activity Action Name:	Dummer PFM Plan-Necktie River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 34.43 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost share for Dummer PFM Plan	Install Date: 08/29/2021
		Mapped: Yes

Activity Action Name:	Matthew Koenig-Steamboat River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 36 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share on Matt Koenig 36 acre PFM Plan	Install Date: 06/02/2022
		Mapped: Yes

Activity Action Name:	Rack Shack PFM Plan-Kabekona River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 120 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for PFM plan writing.	Install Date: 01/19/2022
		Mapped: Yes

Activity Action Name:	Brunkow PFM Plan-Shingobee River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 172.6 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Brunkow PFM Plan	Install Date: 12/17/2021
		Mapped: Yes

Activity Action Name:	Wilde PFM Plan-Kabekona River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 145 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Flat Rate Cost Share for the writing of Wilde PFM Plan.	Install Date: 02/03/2022
		Mapped: Yes

Activity Action Name:	Roerick PFM Plan-Kabekona River	Activity Count: 3
Practice Type:	147M - Forestry Management	Size/Units: 186 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Flat Rate Cost Share for Roerick PFM Plan.	Install Date: 02/03/2022
		Mapped: Yes

Activity Action Name:	Killian PFM Plan-Necktie River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 218 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Killian PFM Plan	Install Date: 11/05/2020
		Mapped: Yes

Activity Action Name:	Brambrink PFM Plan-Kabekona River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 37 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	37 acre PFM Plan within Kabekona River subwatershed	Install Date: 12/04/2020
		Mapped: Yes

Activity Action Name:	Doug Kilanowski PFM Plan-Boy Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 74.7 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for 74.7 acres PFM Plan in Boy Lake Subwatershed	Install Date: 12/04/2020
		Mapped: Yes

Activity Action Name:	Lenz PFM Plan-Steam Boat River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 100.64 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	Cost Share for Jack Lenz PFM Plan in Steamboat River Watershed.	Install Date: 05/07/2020
		Mapped: Yes

Activity Action Name:	Driscoll PFM Plan-Shingobee River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 68 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	Cost Share for Troy Driscoll PFM Plan.	Install Date: 06/04/2020
		Mapped: Yes

Activity Action Name:	Peterson PFM Plan-Necktie River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 123 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Greg Peterson PFM Plan	Install Date: 06/04/2020
		Mapped: Yes

Activity Action Name:	Ron Johnson-Kabekona River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 75 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	Cost Share for Ron Johnson PFM Plan	Install Date: 06/04/2020
		Mapped: Yes

Activity Action Name:	Henry Zierhut PFM Plan-Steamboat River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 50 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	Cost Share for Zierhut PFM Plan	Install Date: 07/02/2020
		Mapped: Yes

Activity Action Name:	Hamilton PFM Plan-Kabekona River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 74 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share For Hamilton PFM Plan	Install Date: 08/06/2020
		Mapped: Yes

Activity Action Name:	Babcock PFM Plan-Kabekona River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 75.9 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for creation of Babcock PFM Plan.	Install Date: 07/07/2022
		Mapped: Yes

Activity Action Name:	Whitney PFM Plan-Pleasant Lake	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 28 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for 28 acre PFM Plan for Jean Whitney	Install Date: 06/18/2021
		Mapped: Yes

Activity Action Name:	Blue PFM Plan-Kabekona River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 161 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for the Writing of Blue PFM Plan	Install Date: 12/17/2021
		Mapped: Yes

Activity Action Name:	Rob Johnson PFM Plan-Steam Boat River	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 117 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Rob Johnson PFM Plan	Install Date: 06/02/2022
		Mapped: Yes

Activity Action Name:	Berg PFM Plan-Necktie river	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 382 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Cost Share for Carol Berg PFM Plan	Install Date: 12/01/2022
		Mapped: Yes

## Activity Name: Project Development

Activity Category: Project Development

Staff time?: Yes

**Description:** Hubbard SWCD will be allocated 1000 hours annually for the purpose of outreach and planning. Cass SWCD will be allocated 300 hours annually for the purpose of outreach and planning. Additional hours may be required for easement preparation for the LSOHC grant that the Leech Lake River watershed has received.

### 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	Leech Lake River Watershed Implementation	\$106,798.87	\$106,798.87	\$0.00	08/05/2022	N

Cass - Staff attended meetings within the watershed, including Cities, County, Township, and Lake Associations aimed at landowner outreach.

Cass - Conducted a radio outreach program to encourage Private Forestry Management (PFM) Plans. Ran 30 second ads multiple times a day from March to June 2021. Ads were run on KAKK 1570 AM, and the KK Radio Network.

Cass - Conducted landowner outreach for rain gardens and shoreland buffers. Staff also spent time sending out shoreland guides to landowners who recently purchased land within Cass County.

Hubbard - WQ and GIS Tech - Kabekona Lake Association Meeting In August, Nitrate Testing In Laporte. These led to several (5 total) site visits for technical assistance with one possibly being a shoreline stabilization project (all shoreline owners received a planting list). The landowners are currently talking with a variety of contractors to get an estimate of what a shoreline restoration will be. Project could be implemented in 2023. Presentation with Hubbard county COLA and working with the shoreline stewards led to 3 other visits on Kabekona. Presentations at Hubbard COLA and Shoreline Workshop led to additional site visits on Garfield Lake with one becoming a project. There were three sites visits on the north end, one on the east side, and one on the West side of the Lake. Had a variety of conversations with the Landowner and Prairie Restorations as with inflation the landowner modified the scope of work a few times to match their budget. This will be implemented spring of 2023. Spring seeding of a buffer on Kabekona River with the Trout Unlimited Crew. Various site visits to Kabekona River Project.

Shoreline stewardship talk at the Hubbard COLA speaking about existing priority areas and 1w1ps. This led to several site visits on Garfield and Kabekona along with working with the Lake Kabekona Shoreline Advisors. A variety of shoreline visits on Lake Kabekona with the shoreline advisors. Goal was for the shoreline advisors to learn about shoreline stabilization practices so they could better help neighbors and act as our eyes for that lake. We had done six sites visits on Lake Kabekona with one of them going beyond just the initial technical assistance. This project had a secondary follow up with a neighboring landowner and original to discuss a possible joint project. One

of the landowners came down with some health issues and this project has been on hold since. Four site visits were conducted on lake Garfield and we provided plant lists and recommended planting plans to address the variety of shoreline stability concerns. A fifth visit looked to be a possible project so we brought in TSA 8 and they created an estimated cost which was higher than what the landowner could afford so they withdrew to work on a smaller scale project on their own. A landowner on the south side of the lake reached out interested in cost share working to address some erosion issues. This project went through a variety of iterations and discussion with the landowner. Once a general concept was agreed upon we brought in TSA 8 which made a concept design and cost estimate. The cost estimate was more than the landowners were comfortable with so we attempted to scale down the project but it eventually fell through. Fall live stakes and wattles planting to address erosion issue along the Kabekona River with help for the Trout Unlimited Crew. Various site visits to Kabekona River project. Kabekona River E. coli sampling to identify septic issues and livestock issues along the river. Lake Benedict water quality testing.

Hubbard - PFM Tech Team - • Outreach to partners and plan writers to kick off PFM tech team for Leech

- Held planning discussions and 4 PFM team meetings winter 2020 through spring 2021
- We have a joint LFT work session planned for Sept 10th to share the Endowments work, new tracking and outreach tools and to help each team get going with a round of targeted outreach in the Pine, Leech and Mississippi.
- Brandon has been working on outreach packets for each of the organized wildlife and hunting groups in our county. After he sent information out to the Wild Turkey Federation, I had some ongoing conversations with Clayton about how to better share our programs with local members and coordinate together for projects and outreach. I think this is one of many strong partnerships that we are building with groups regarding managing forests for specific goals, including clean water.
- Created PFM Playbook Resource for LLR1w1p area and forestry team. Viewable/downloadable at the following link:  
[https://drive.google.com/drive/folders/190OZev3kV5bbMpOXRCwu-tf-TYtv7YeA?usp=share\\_link](https://drive.google.com/drive/folders/190OZev3kV5bbMpOXRCwu-tf-TYtv7YeA?usp=share_link)

Hubbard - Forest Resources Tech - December, 2020 - Pete sent out outreach letters to parcels with high RAQ scores in the LLRW-Shingobee

February 2021 - Leech Lake River Watershed AgBMP Outreach Prioritization with Crystal, Jake, Kelly, Pete, and Dan

March 2021 - LLRW FSP Radio Announcement (lasted 3 months)

April 2021 - Leech Lake River Watershed PFM Tech Team Kick Off Day with Crystal, Jake, Kelly, Lindberg, Chris Brokl, and Pete

June 2021 - Date for Pine/Leech Easement Outreach with Crystal, Adam (CWSWCD), Bill Penning, Chris Pence, Melissa Barrick, Pete, and Andrew (CWSWCD)

Summer 2021 – work with landowners responding to outreach and walk ins to get FSPs done and pursue easements

October, 2021 - Mailing to Necktie River/ Steamboat River Watershed Easements - 7 landowners

October 18th, 2021 - LLR PFM Playbook Editing with Crystal – partner funding from DNR Forestry

November 4th, 2021 - Nov LFT/PFM Tech Team meeting and worksession at Badoura Nursery with staff from Hubbard, Cass, Beltrami, TSA8, DNR, Koochaching, and BWSR

December, 2021 - Sent Seasons Greetings Forest Management/Protection postcards to 18 Family Resorts in the LLRW, as well as 182 for parcels with RAQ scores between 2 & 8

January 2022 - Met with landowner-B about his LLRW FSP

February 24th, 2022 - Joint LFT Session with Hubbard team, Aly B., Andrew, Anne O., Austin

May 2022 - sent out Wild Rice Easement 15 letters to landowners in the LLRW and another 25 in the other watersheds.

Hubbard - Attended Township, County, Lake Association, and City meetings to raise awareness and develop projects. Projects included the Kabekona river cattle crossing project/buffer/agBMP, Kabekona lake project, Culvert replacement, chloride reduction for snow removal equipment, Necktie River Restoration, Kabekona river e coli sampling, shoreland improvement on Garfield lake, Stormwater in LaPorte, Water quality sampling on Hart and Benedict lake, landowner outreach on Willow lake, AgBMP outreach across watershed, Investigated culvert concerns on Kabekona and Bungashing rivers, Kabekona Lake Association outreach, 17 PFMs totaling 2,372 acres, targeted outreach in the Shingobee subwatershed.

## Activity Name: Shoreland stabilization and buffers

**Activity Category:** Streambank or Shoreline Protection

**Staff time?:** No

**Description:** Funds allocated to provide technical and financial assistance through cost-share contracts with landowners to enable implementation of stormwater management, best management practices, natural shoreline buffers, vegetative stabilization and plants that stabilize soils, reduce nutrient input, and provide habitat for pollinators and other critical wildlife in riparian corridors. First priority will be the high-quality lakes followed by recreational lakes with declining water quality trends, and then other lakes within the 11 high priority sub-watersheds as listed in the plan. Pollution reduction goals for each priority lake is listed in the plan on page 39 (high quality lakes) and page 44 (recreational lakes with declining water quality trends). The overall goal is to reduce phosphorus loading by 5% cumulatively throughout the watershed (page 16).

### 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	Leech Lake River Watershed Implementation	\$51,142.13	\$51,142.13	\$0.00	08/04/2022	N

### Actual Results

Installed 6 shoreland buffers that totaled 10,000 sq feet. All were done in either priority watersheds or priority lakes.

**Final Indicators**

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Phosphorus (Est. Reduction)	7	Lbs/Yr
Sediment (Tss)	6	Tons/Yr

Activity Action Name: Tim Sehnert-Ponto Lake	Activity Count: 1
Practice Type: 580 - Streambank and Shoreline Protection	Size/Units: 2200 - Cfu/Yr
TA Provider/JAA: Private Consultant	Lifespan: In Perpetuity
Practice Description: Cost Share for Sehnert Shoreland project.	Install Date: 08/04/2022
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	3	Bwsr Calc (Stream & Ditch Stabilization)	Ponto Lake

Activity Action Name: Kaehler Shoreland Buffer-Wabedo Lakee	Activity Count: 1
Practice Type: 580 - Streambank and Shoreline Protection	Size/Units: 1500 - Cfu/Yr
TA Provider/JAA: SWCD	Lifespan: In Perpetuity
Practice Description: Cost Share for Kaehler Shoreland Buffer project.	Install Date: 08/04/2022
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	3	Bwsr Calc (Stream & Ditch Stabilization)	Wabedo Lake

Activity Action Name:	Blomberg Shoreline Buffer-PLeasant Lake	Activity Count: 1
Practice Type:	390 - Riparian Herbaceous Cover	Size/Units: 1300 - Cfu/Yr
TA Provider/JAA:	Private Consultant	Lifespan: In Perpetuity
Practice Description:	Installation of Shoreline buffer along 110 lineal feet of Birch Lake.	Install Date: 07/06/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	1	Other	Birch

Activity Action Name:	Kellie Lewis Buffer Project-Woman Lake	Activity Count: 1
Practice Type:	390 - Riparian Herbaceous Cover	Size/Units: 1500 - Cfu/Yr
TA Provider/JAA:	SWCD	Lifespan: In Perpetuity
Practice Description:	Cost share for Lewis Shoreline Buffer on Blackwater Lake	Install Date: 11/04/2021
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	2	Other	Blackwater

Activity Action Name:	Meyer Shoreland Buffer-Woman Lake	Activity Count: 1
Practice Type:	390 - Riparian Herbaceous Cover	Size/Units: 1500 - Cfu/Yr
TA Provider/JAA:	SWCD	Lifespan: In Perpetuity
Practice Description:	Removal of RR Tie walls and regrade of slope, installation of native shrubs and forbs.	Install Date: 10/19/2020
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	1	Other	Girl

Activity Action Name:	Larison Shoreland Buffer	Activity Count: 1
Practice Type:	390 - Riparian Herbaceous Cover	Size/Units: 2000 - Cfu/Yr
TA Provider/JAA:	SWCD	Lifespan: In Perpetuity
Practice Description:	Installation of Shoreline buffer within the Pleasant Lake subwatershed.	Install Date: 07/07/2022
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	3	Other	Birch Lake

## Activity Name: Technical Services

**Activity Category:** Technical/Engineering Assistance **Staff time?:** Yes

**Description:** Technical service support for all projects associated with this grant. This may include TSA 8, private individuals or SWCD staff. Technical Services provided by staff will have proper Job Approval Authority (JAA) and this information will be available upon request, These activities may include culvert inventory, stormwater and or shorland buffers.

### 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	Leech Lake River Watershed Implementation	\$63,525.45	\$63,525.45	\$0.00	12/02/2022	N

## Actual Results

Contracted with Hubbard County for engineering for City of LAporte Stormwater plan. Contracted with Moore Engineering to do culvert replaceemnt plan for Stoney Creek culvert replacement. Contracted with Ulteig Engineering for stormwater basin plans. SWCD Staff to conduct Surveying for the Lake May Culvert and for GIS mapping and e-Link mapping of Private Forest Management Plans.