Grant Progress Report

Watershed Based Implementation MAY 2022

Grant Title: Leech Lake River Implementation Phase 2
Grant ID: C22-3556
Grantee: Cass SWCD
Fiscal Agent: Cass SWCD
Grant Day-to-Day Contact: Dana Gutzmann

Grant Award ($): $598,115.00
Required Match (%): 10
Required Match ($): $59,811.50

Grant Execution Date: 08/19/2022
Grant End Date: 12/31/2025

	Total Budgeted	**Total Spent**	Balance Remaining*
Grant Funds	$598,115.00	**$300,732.43**	$297,382.57
Match Funds	$72,616.00	**$20,284.70**	$52,331.30
Other Funds	$24,265.50	**$24,265.50**	$0.00
Total	$694,996.50	**$345,282.63**	$349,713.87

***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 Implementation Phase 2	$5,000.00	$3,794.64	$1,205.36	N
Pasture Management	Agricultural Practices	Current State Grant	Leech Lake River Implementation Phase 2	$42,509.51	$0.00	$42,509.51	N
Pasture Management	Agricultural Practices	Landowner Fund	Landowner Match	$10,628.00		$10,628.00	Y

Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Balance Remaining	Match Fund?
Forestry Practices	Forestry Practices	Current State Grant	Leech Lake River Implementation Phase 2	$41,950.56	$11,396.04	$30,554.52	N
Forestry Practices	Forestry Practices	Landowner Fund	Landowner Match	$10,488.00	$5,198.08	$5,289.92	Y
Chloride Reduction	Non-Structural Management Practices	Current State Grant	Leech Lake River Implementation Phase 2	$15,000.00		$15,000.00	N
Project Development	Project Development	Current State Grant	Leech Lake River Implementation Phase 2	$110,000.00	$35,051.40	$74,948.60	N
Stony Creek Culvert Replacement	Streambank or Shoreline Protection	Local Fund	Lake Association	$1,000.00	$1,000.00	$0.00	Y
Stony Creek Culvert Replacement	Streambank or Shoreline Protection	Local Fund	Wabedo Township	$8,000.00	$8,000.00	$0.00	Y
Shoreline Stabilization	Streambank or Shoreline Protection	Current State Grant	Leech Lake River Implementation Phase 2	$70,000.00	$18,251.88	$51,748.12	N
Stony Creek Culvert Replacement	Streambank or Shoreline Protection	Other Funds	2021 - SWCD Local Capacity Services (Cass SWCD)	$8,088.50	$8,088.50	$0.00	N
Stony Creek Culvert Replacement	Streambank or Shoreline Protection	Current State Grant	Leech Lake River Implementation Phase 2	$148,972.93	$148,972.93	$0.00	N
Shoreline Stabilization	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	$22,500.00	$6,086.62	$16,413.38	Y
Technical Services	Technical/Engineering Assistance	Current State Grant	Leech Lake River Implementation Phase 2	$84,682.00	$83,265.54	$1,416.46	N
Local Match for Projects	Urban Stormwater Management Practices	Local Fund	City of Walker Funds	$20,000.00		$20,000.00	Y
Stormwater-City of	Urban Stormwater	Current State Grant	Leech Lake River Implementation Phase	$80,000.00		$80,000.00	N

Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Balance Remaining	Match Fund?
Walker	Management Practices		2				

Indicator Summary

Indicator Category	Proposed Indicator	Total Value	Unit
MinnFARM	Phosphorus Feedlot (Est. Reduction)	8	Lbs/Yr
Water Pollution (Reduction Estimates)	Chloride	2	Tons/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	3	Tons/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	2	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	2	Lbs/Yr
Water Pollution (Reduction Estimates)	Nitrogen	8	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	1250	Tons/Yr

Indicator Category	Final Indicator	Total Value	Unit
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	6.28	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	7.38	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	7.38	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	516	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.504	Tons/Yr

Grant Activities

Activity Name: Chloride Reduction

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

Description: Retrofitting of county salting trucks to brining systems, Each county will be allocated $15,000 for this activity.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Leech Lake River Implementation Phase 2	$15,000.00		$15,000.00		N

Actual Results

Hubbard SWCD working with Hubbard County Highway Dept to determine equipment needed to retrofit a salting truck for brining.

Activity Name: Culvert Replacement-Big Deep lake Outlet

Activity Category: Streambank or Shoreline Protection | **Staff time?:** No

Description: Installation of new culvert and storm water catchment basins for sediment control. Engineering for culvert design has been completed by Moore Engineering as per MN. DNR Final inspection will be done by MN. DNR. Project completion is scheduled for Fall 2022. Pollution Reduction estimates show project will remove 2-3 tons per rain event.

Actual Results

Activity Name: Forestry Practices

Activity Category: Forestry Practices | **Staff time?:** No

Description: Cost sharing with private landowners, within the identified priority watersheds, for the writing of private forest management plans. Goal is 2,500 acres and have 50% of landowners enroll in a long term protection program such SFIA or a Conservation easement. Plan Writing will be done by Mn. DNR approved plan writers.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Leech Lake River Implementation Phase 2	$41,950.56	$11,396.04	$30,554.52	12/06/2024	N
Landowner Fund	Landowner Match	$10,488.00	$5,198.08	$5,289.92	01/09/2024	Y

Actual Results

Working with private foresters for forest stewardship plans for forest protection in watershed.

Activity Action Name:	Hubbard 280900200	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 79 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	79 acre Forest Stewardship Plan	Install Date: 10/19/2023
		Mapped: Yes

Activity Action Name:	Hubbard 013500700	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 129 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	129 acre Forest Stewardship Plan	Install Date: 10/16/2023
		Mapped: Yes

Activity Action Name:	Hubbard PID 24.02.01100	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 40 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 06/08/2023
		Mapped: Yes

Activity Action Name:	Hubbard 28.04.01500, 28.04.01600, 28.04.01600, 28.04.01700, 28.09.00100	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 167 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 04/24/2023
		Mapped: Yes

Activity Action Name:	John Ringle PFM	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 38 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 04/21/2023
		Mapped: Yes

Activity Action Name:	Tianna	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 24 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 04/10/2023
		Mapped: Yes

Activity Action Name:	CS376-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 74.5 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 04/01/2023
		Mapped: Yes

Activity Action Name:	CS380-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 244 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 05/27/2023
		Mapped: Yes

Activity Action Name:	CS390-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 51 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 06/08/2023
		Mapped: Yes

Activity Action Name:	CS401-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 39 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM plan	Install Date: 07/31/2023
		Mapped: Yes

Activity Action Name:	CS364-22	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 160 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 12/22/2022
		Mapped: Yes

Activity Action Name:	CS414-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 56 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Forest Stewardship plan	Install Date: 10/05/2023
		Mapped: No

Activity Action Name:	CS395-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 90 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 06/20/2023
		Mapped: No

Activity Name: Grant Administration

Activity Category: Administration/Coordination **Staff time?:** Yes

Description: Complete required reporting, pay contractors, pay bills, track hours and expenses, organize policy committee and advisory committee meetings. Billing Rates will be $35.55 per hour.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Leech Lake River Implementation Phase 2	$5,000.00	$3,794.64	$1,205.36	12/08/2023	N

Actual Results

Activity Name: Local Match for Projects

Activity Category: Urban Stormwater Management Practices | **Staff time?:** No

Description: Match For City of Walker Stormwater on Cleveland

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Local Fund	City of Walker Funds	$20,000.00		$20,000.00		Y

Actual Results

Activity Name: Pasture Management

Activity Category: Agricultural Practices | **Staff time?:** No

Description: Cost sharing with private landowners within identified priority watersheds, to implement NRCS approved practices that have water quality benefits. Practices will be approved by the NRCS or JAA approved plan writer.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Leech Lake River Implementation Phase 2	$42,509.51	$0.00	$42,509.51	07/07/2023	N
Landowner Fund	Landowner Match	$10,628.00		$10,628.00		Y

Actual Results

Working with landowner for agricultural BMP in priority subwatershed. No projects completed at this time.

Activity Name: Project Development

Activity Category: Project Development | **Staff time?:** Yes

Description: Staff time to help develop and implement grant objectives. Talking to landowners, developing contracts, working lake associations, meetings, phone calls, and correspondence with partners. 1300 hours @ $50.00/hr for Hubbard County, and $45,000 for Cass SWCD staffing. All funds are a reimbursable and must have a invoice detailing where hours were utilized.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Leech Lake River Implementation Phase 2	$110,000.00	$35,051.40	$74,948.60	01/22/2024	N

Actual Results

Activity Name: Shoreline Stabilization

Activity Category: Streambank or Shoreline Protection | **Staff time?:** No

Description: Cost Sharing with 7 private landowners, within priority watersheds on Shoreline stabilization projects that benefit water quality. Plans and installation will be done by private ecological services companies. JAA will be done by Cass SWCD Staff.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Landowner Fund	Landowner Match	$22,500.00	$6,086.62	$16,413.38	12/14/2023	Y
Current State Grant	Leech Lake River Implementation Phase 2	$70,000.00	$18,251.88	$51,748.12	12/14/2023	N

Actual Results

One shoreline project completed in 2023. Three projects already planned for 2024.

Final Indicators		
Indicator	**Total Value**	**Unit**
Soil (Est. Savings)	7.38	Tons/Yr
Sediment (Tss)	7.38	Tons/Yr
Phosphorus (Est. Reduction)	6.28	Lbs/Yr

Activity Action Name:	221109LLRLGR	Activity Count: 1
Practice Type:	580 - Streambank and Shoreline Protection	Size/Units: 195 - Cfu
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	195 feet shoreline restoration on Garfield Lake	Install Date: 07/14/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	7.38	Bwsr Calc (Stream & Ditch Stabilization)	Garfield
Soil (Est. Savings)	Tons/Yr	7.38	Bwsr Calc (Stream & Ditch Stabilization)	Garfield
Phosphorus (Est. Reduction)	Lbs/Yr	6.28	Bwsr Calc (Stream & Ditch Stabilization)	Garfield

Activity Name: Stony Creek Culvert Replacement

Activity Category: Streambank or Shoreline Protection **Staff time?:** No

Description: Replacement of Existing Culvert and roadway BMP's on Stony Creek.Installation of new culvert and storm water catchment basins for sediment control. Engineering for culvert design has been completed by Moore Engineering as per MN. DNR Final inspection will be done by MN. DNR. Project completion is scheduled for Winter 2023. Pollution Reduction estimates show project will remove 2-3 tons per rain event.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	2021 - SWCD Local Capacity Services (Cass SWCD)	$8,088.50	$8,088.50	$0.00	01/01/2023	N
Current State Grant	Leech Lake River Implementation Phase 2	$148,972.93	$148,972.93	$0.00	08/08/2023	N
Local Fund	Lake Association	$1,000.00	$1,000.00	$0.00	05/05/2023	Y
Local Fund	Wabedo Township	$8,000.00	$8,000.00	$0.00	09/27/2023	Y

Actual Results

Completion of the Stony Creek culvert project in 2023.

Final Indicators

Indicator	Total Value	Unit
Sediment (Tss)	0.504	Tons/Yr
Phosphorus (Est. Reduction)	516	Lbs/Yr

Activity Action Name:	CS351-22	Activity Count: 1
Practice Type:	580 - Streambank and Shoreline Protection	Size/Units: 85 - Cfu
TA Provider/JAA:	Private Consultant	Lifespan: 25 Years
Practice Description:	two Culvert Replacement, ditch checks	Install Date: 04/15/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.504	P8 Urban Catchment Model	Wabedo
Phosphorus (Est. Reduction)	Lbs/Yr	516	P8 Urban Catchment Model	Wabedo

Activity Name: Stormwater-City of Walker

Activity Category: Urban Stormwater Management Practices | **Staff time?:** No

Description: Cost Sharing with the City of Walker for the installation of a storm water defender on Cleveland Blvd near Cochran's Marina.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Leech Lake River Implementation Phase 2	$80,000.00		$80,000.00		N

Actual Results

Project is nearing completion.

Activity Name: Technical Services

Activity Category: Technical/Engineering Assistance | **Staff time?:** No

Description: Funds will be used to design, survey, for the Lake May Creek and Necktie River projects. HR Green will be the engineering firm doing this work along with assistance from the MN. DNR as needed. Costs for lake May Creek is $51,594 and Necktie River is $47,000.This work is the technical work needed to complete two channel restoration projects in the future.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Leech Lake River Implementation Phase 2	$84,682.00	$83,265.54	$1,416.46	01/04/2024	N

Actual Results

AECOM engineering completed 30% plan sets for Lake May Creek and Necktie River Restoration. Plan sets for Lake May Creek have already been shared and discussed with the City of Walker for future work on city owned roadway at the Lake May outlet, and MN DOT for Hwy 34 and 371 roadways with culverts in Lake May Creek.