



Lessard-Sams Outdoor Heritage Council

Laws of Minnesota 2021 Accomplishment Plan

General Information

Date: 12/09/2020

Project Title: Shell Rock River Habitat Restoration Program - Phase X

Funds Recommended: \$1,547,000

Legislative Citation: ML 2021, Ch. XX, Art. 1, Sec. 2, subd.

Appropriation Language:

Manager Information

Manager's Name: Courtney Phillips

Title: Program/Project Manager

Organization: Shell Rock River Watershed District

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Location Information

County Location(s): Freeborn.

Eco regions in which work will take place:

- Prairie

Activity types:

- Protect in Fee
- Enhance

Priority resources addressed by activity:

- Wetlands
- Prairie
- Habitat

Narrative

Abstract

The Shell Rock River Watershed District (SRRWD) Phase X Habitat Restoration Program will enhance, and protect 389 acres of essential prairie upland, wetland, and streambank habitat across the watershed. As a result of the strategic projects, key biological functioning parcels will be permanently protected, vegetation and feeding sources will be restored for migratory fowl habitat and wetlands will be restored from row crop agriculture. Projects in Phase X are critical for the benefit of fish, waterfowl, and wildlife populations, reversing the trend of wetland loss and habitat degradation.

Design and Scope of Work

Program Goals:

In 2014, the SRRWD created a phased approach to restore, protect, and enhance degraded habitat conditions by implementing projects on a lake-shed basis. The Watershed Habitat Restoration Program is designed to accomplish the following objectives:

- Create wetlands to improve waterfowl breeding and migratory success
- Remove rough fish species and restore desirable fish, waterfowl and wildlife populations aiming at critical species of concern
- Increase fish habitat, spawning areas and waterfowl nesting areas
- Restore streambanks and increase wildlife habitat and its natural prairie
- Increase and improve the use of restored public natural resources
- Enhance native aquatic rooted vegetation and protect the watershed from invasive species

The program will also interconnect and reestablish important flyway habitats within Minnesota. Once completed, the program will establish waterfowl and fish populations, increase habitat for wetland dependent wildlife, and create the wildlife mecca that was recorded in the late 1800s.

Specifically, Phase X will contribute to the District's goals by:

- Acquire 218 acres of key targeted acquisitions to protect land along Church Lake, establish upland prairie and wetlands, and improve nesting habitat and waterfowl food sources.
- Enhance 60 acres of wetland basins, reversing wetland loss and habitat degradation
- Reestablish 111 acres of vegetation into upland prairie from agricultural use in an important flyway that is critical to nesting waterfowl, upland game, and other wading bird species

This proposal uses a programmatic approach to achieve protection, restoration, and enhancement of lakes, wetlands, streams and native prairie landscapes. The program includes projects that are prioritized on the significance of the benefits to aquatic habitat, urgency of the work, availability of leveraged funds, location of projects and agreements with relevant planning documents. The SRRWD has a proven track record with the LSOHC and implementing projects that protect, restore and enhance natural resources. The SRRWD continues to receive strong support for these projects from landowners, local governments and sporting organizations. Finally, this program will preserve an outdoor legacy for Minnesotans to use and enjoy for generations.

Background:

The SRRWD covers 246 square miles inside Freeborn County and includes a complex system of wetlands, streams, and shallow lakes that drain into the Shell Rock River. Managing habitat for this complex system is imperative to the SRRWD as well as understanding its role for providing critical habitat for fish, waterfowl and wildlife. Habitat degradation of wetlands, streams, and shallow lakes is an issue of statewide importance that requires accelerated investment in projects to reverse this degradation. Protection and restoration of this critical habitat is the highest

priority of the SRRWD and is directly affected by invasive aquatic vegetation, land use changes, increased water demands, populations of invasive fish species such as common carp, and artificial drainage. Degradation in habitat is influencing available food sources for game fish populations that include Northern Pike, Bluegill, Yellow Perch and Walleye, and duck populations including Northern Pintail, Redhead, Canvasback and Lesser Scaup.

How does the plan address habitats that have significant value for wildlife species of greatest conservation need, and/or threatened or endangered species, and list targeted species?

The SRRWD understands that when critical habitats are lost due to land use changes and other factors, restoring the habitat is imperative to the protection of species and their ecological processes. Important species are disappearing at an alarming rate and the SRRWD has the opportunity to protect targeted specific habitats and the species that call it home.

Using the Minnesota Department of Natural Resources tool for species in greatest conservation need by habitat, the SRRWD has identified species of importance for the Oak Savanna landscape. Those species include the Marsh Wren and Common Moorhen for birds, mussels such as Sheepnose and Round Pigtoe, and amphibians including the Blanding's Turtle.

One of the fastest declining populations in Minnesota has been the loss of Minnesota's native mussels. The freshwater mussel is threatened by a multitude of sources including dams and stream channelization, wetland drainage, bank erosion, invasive mussels and water pollution. The District is focused on improving habitat and water quality conditions, as well as providing habitat with in-water features that will improve that quality of habitat for threatened Round Pigtoe, and endangered Sheepnose mussels.

The Common Moorhen is listed as special concern in the Oak Savanna habitat and can be attributed to the loss of well-vegetated ponds and wetlands. With projects proposed by Phase X, wetland creation and vegetation enhancement of 171 acres can provide restored habitat for both the Common Moorhen and March Wren.

Describe how the plan uses science-based targeting that leverages or expands corridors and complexes, reduces fragmentation or protects areas identified in the MN County Biological Survey:

The SRRWD utilizes precision conservation modeling with monitoring to identify Property Management Zones (PMZs) on a sub-watershed basis. The PMZs are prioritized, evaluated conservation measures and project locations chosen to mitigate specific areas contributing to degradation of habitat which reduces populations of aquatic vegetation, fish, waterfowl and wildlife within the lake-shed.

Historically the Shell Rock River Watershed is a shallow lake system with diverse populations of fish, waterfowl and wildlife. With degraded habitat becoming a concern, and more areas listed as below biodiversity significance in the MN County Biological Survey (MCBS) for Freeborn County, the District has ongoing efforts with identifying key PMZs to implement projects that expands habitat corridors and protects areas identified by the MCBS.

One of the land acquisitions is contained within areas identified on the MCBS, permanently projecting the valued significance of the land. The 171 acre wetland and vegetation restoration project contains significant areas. Projects such as these are important to expanding corridors and reaching the targeted nine square mile parcels.

Implementing site specific habitat restorations projects, in line with areas identified in the MCBS, are progressively improving populations of native fish, waterfowl and wildlife habitat to once again create a wildlife mecca.

Which two sections of the Minnesota Statewide Conservation and Preservation Plan are most applicable to this project?

- H2 Protect critical shoreland of streams and lakes
- H5 Restore land, wetlands and wetland-associated watersheds

Which two other plans are addressed in this program?

- Long Range Plan for Fisheries Management
- North American Waterfowl Management Plan

Which LSOHC section priorities are addressed in this program?

Prairie

- Protect, enhance, or restore existing wetland/upland complexes, or convert agricultural lands to new wetland/upland habitat complexes

Does this program include leveraged funding?

Yes

Explain the leverage:

The Habitat Restoration Program, Phase X, builds and expands upon previous LSOHC funding including the Wedge Creek, White Lake and Fountain Lake Fish Barriers (2009-10); Shell Rock River Headwaters Project (2011-12); Albert Lea Lake Dam and Fish Barrier (2013-14); Goose Creek Fish Barrier (CPL Grant) (2013-14); Shell Rock River Headwaters Restoration, Phase II (CPL Grant) (2014-15); Shell Rock River Watershed Habitat Restoration Program, Phase IV (2015-16); the Habitat Restoration Program, Phase V (2016-17); the Habitat Restoration Program, Phase VI (2017-18)the Habitat Restoration Program, Phase VII (2018-19) and the Phase IX Program (2019-20). The LSOHC funded projects consolidates previous SRRWD projects including the Fish Barrier Program, Streambank Restoration Program, the ISTS Program, and the Wetland Restoration Program. The SRRWD has a local option sales tax that is used to leverage dollars.

Per MS 97A.056, Subd. 24, Please explain whether the request is supplanting or is a substitution for any previous funding that was not from a legacy fund and was used for the same purpose.

Not applicable.

Non-OHF Appropriations

Year	Source	Amount
2017	Local Tax Levy	500,000
2018	Local Tax Levy	400,000
2012	Local Tax Levy	180,000
2013	Local Tax Levy	230,000
2014	Local Tax Levy	804,750
2015	Local Tax Levy	200,000
2016	Local Tax Levy	750,000
2019	Local Tax Levy	400,000

How will you sustain and/or maintain this work after the Outdoor Heritage Funds are expended?

The Shell Rock River Watershed District is authorized by Minnesota state statute 103D and operates under a series of 10 year Water Management Plans that are approved by the Minnesota Board of Soil and Water Resources (BWSR). The District recently updated its second generation waterplan and is entering the One Watershed One Plan (1W1P) Comprehensive Management Plan process. This second generation plan, and 1W1P includes a top to bottom comprehensive list detailing natural resource restoration, management, enhancement and protection strategies.

The SRRWD relies on multiple funding sources including a citizen driven local option sales tax, local levy, and multiple public and private funding sources including previously LSOHC phased project to assist in the District's restoration efforts. The District has an aggressive monitoring protocol that generates yearly data used for extensive reporting. The habitat efforts that accrue from the Phase X Restoration Program will be easily incorporated into this existing results-driven reporting framework. This reporting can be used to generate public interest and education of a watershed based restoration approach. The District has commitment and funding sources necessary to maintain existing and future natural resource enhancement projects.

Actions to Maintain Project Outcomes

Year	Source of Funds	Step 1	Step 2	Step 3
2023	LSOHC and Sales Tax	Construction and Erosion Control Inspections	Erosion Control and Maintenance Inspections and Implementations	Maintenance Inspections and Implementations
2024	LSOHC and Sales Tax	Construction and Erosion Control Inspections	Erosion Control and Maintenance Inspections and Implementations	Maintenance Inspections and Implementations
2025 and 2026	LSOHC and Sales Tax	Erosion Control and Maintenance Inspections and Implementations	-	Maintenance Inspections and Implementations

Activity Details

Requirements

If funded, this program will meet all applicable criteria set forth in MS 97A.056?

Yes

Will county board or other local government approval be formally sought prior to acquisition, per 97A.056 subd 13(j)?**

Yes

Is the land you plan to acquire (fee title) free of any other permanent protection?

Yes

Will restoration and enhancement work follow best management practices including MS 84.973 Pollinator Habitat Program?

Yes

Is the restoration and enhancement activity on permanently protected land per 97A.056, Subd 13(f), tribal lands, and/or public waters per MS 103G.005, Subd. 15?

Yes

Where does the activity take place?

- WPA
- Public Waters

Land Use

Will there be planting of any crop on OHF land purchased or restored in this program?

No

Is this land currently open for hunting and fishing?

No

Will the land be open for hunting and fishing after completion?

Yes

Describe any variation from the State of Minnesota regulations:

Parcels will follow all hunting/fishing regulations

Who will eventually own the fee title land?

- State of MN

Land acquired in fee will be designated as a:

- WMA

What is the anticipated number of closed acquisitions (range is fine) you plan to accomplish with this appropriation?

One planned acquisition but it includes 5 parcels.

Are there currently trails or roads on any of the proposed acquisitions?

No

Will new trails or roads be developed or improved as a result of the OHF acquisition?

No

Will the acquired parcels be restored or enhanced within this appropriation?

No

At this time, there is no funding to do wetland restoration work.

Will the land that you acquire (fee or easement) be restored or enhanced within this program's funding and availability?

No

Explain how, when, and source of the R/E work:

If funds allow, the site will be seeded. Future funding will have to come for the wetland restoration activities.

Timeline

Activity Name	Estimated Completion Date
Begin project planning, design, permitting work and acquisitions	July 2022
Begin projects during the 2022 construction season following completion of design, permits, and contracting	2022 Construction Season to 2023
Complete all restoration and habitat improvement projects and finalize acquisitions	End of 2024 Construction Season
Vegetation enhancement on restoration projects; complete final project construction	June 2026
Maintenance and monitoring of all restoration and habitat improvement projects	Ongoing

Date of Final Report Submission: 06/30/2026

Budget

Budget reallocations up to 10% do not require an amendment to the Accomplishment Plan.

Totals

Item	Funding Request	Antic. Leverage	Leverage Source	Total
Personnel	\$45,000	\$25,000	-	\$70,000
Contracts	\$155,000	-	Local Option Sales Tax	\$155,000
Fee Acquisition w/ PILT	\$1,177,300	-	-	\$1,177,300
Fee Acquisition w/o PILT	-	-	-	-
Easement Acquisition	-	-	-	-
Easement Stewardship	-	-	-	-
Travel	-	-	-	-
Professional Services	\$164,700	\$75,000	Local Option Sales Tax	\$239,700
Direct Support Services	-	-	-	-
DNR Land Acquisition Costs	\$5,000	-	-	\$5,000
Capital Equipment	-	-	-	-
Other Equipment/Tools	-	-	-	-
Supplies/Materials	-	-	-	-
DNR IDP	-	-	-	-
Grand Total	\$1,547,000	\$100,000	-	\$1,647,000

Personnel

Position	Annual FTE	Years Working	Funding Request	Antic. Leverage	Leverage Source	Total
Program Assistant	0.43	1.0	\$20,000	\$15,000	Local Option Sales Tax	\$35,000
Program Manager	0.43	1.0	\$25,000	\$10,000	Local Option Sales Tax	\$35,000

Amount of Request: \$1,547,000

Amount of Leverage: \$100,000

Leverage as a percent of the Request: 6.46%

DSS + Personnel: \$45,000

As a % of the total request: 2.91%

Easement Stewardship: -

As a % of the Easement Acquisition: -

How will this program accommodate the reduced appropriation recommendation from the original proposed requested amount?

The SRRWD had to remove multiple projects from the Phase X proposal to fit the allocated amount. Two projects will be completed with the allocation.

Describe and explain leverage source and confirmation of funds:

Leverage comes from the SRRWD's secured Local Option Sales Tax

Personnel

Has funding for these positions been requested in the past?

Yes

Please explain the overlap of past and future staffing and position levels previously received and how that is coordinated over multiple years?

The SRRWD has an extensive time-tracking system that allows staff members to track time for each project within each grant. Each year this system is updated to reflect current active grants.

Contracts

What is included in the contracts line?

All the work in the contract line is centered on enhancement costs, minus fifteen percent professional services and twenty percent supplies.

Fee Acquisition

What is the anticipated number of fee title acquisition transactions?

There is one fee title acquisition but it includes 5 different parcels.

Federal Funds

Do you anticipate federal funds as a match for this program?

No

Output Tables

Acres by Resource Type (Table 1)

Type	Wetland	Prairie	Forest	Habitat	Total Acres
Restore	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	218	218
Protect in Fee w/o State PILT Liability	-	-	-	-	-
Protect in Easement	-	-	-	-	-
Enhance	171	-	-	-	171
Total	171	-	-	218	389

Total Requested Funding by Resource Type (Table 2)

Type	Wetland	Prairie	Forest	Habitat	Total Funding
Restore	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	\$1,347,000	\$1,347,000
Protect in Fee w/o State PILT Liability	-	-	-	-	-
Protect in Easement	-	-	-	-	-
Enhance	\$200,000	-	-	-	\$200,000
Total	\$200,000	-	-	\$1,347,000	\$1,547,000

Acres within each Ecological Section (Table 3)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest	Total Acres
Restore	-	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	218	-	218
Protect in Fee w/o State PILT Liability	-	-	-	-	-	-
Protect in Easement	-	-	-	-	-	-
Enhance	-	-	-	171	-	171
Total	-	-	-	389	-	389

Total Requested Funding within each Ecological Section (Table 4)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest	Total Funding
Restore	-	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	\$1,347,000	-	\$1,347,000
Protect in Fee w/o State PILT Liability	-	-	-	-	-	-
Protect in Easement	-	-	-	-	-	-
Enhance	-	-	-	\$200,000	-	\$200,000
Total	-	-	-	\$1,547,000	-	\$1,547,000

Average Cost per Acre by Resource Type (Table 5)

Type	Wetland	Prairie	Forest	Habitat
Restore	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	\$6,178
Protect in Fee w/o State PILT Liability	-	-	-	-
Protect in Easement	-	-	-	-
Enhance	\$1,169	-	-	-

Average Cost per Acre by Ecological Section (Table 6)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest
Restore	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	\$6,178	-
Protect in Fee w/o State	-	-	-	-	-

PILT Liability					
Protect in Easement	-	-	-	-	-
Enhance	-	-	-	\$1,169	-

Target Lake/Stream/River Feet or Miles

N/A

Outcomes

Programs in prairie region:

- Protected, restored, and enhanced habitat for migratory and unique Minnesota species ~ *will be measured by the increase of use days for migrating waterfowl and improved habitat acres for unique species. The protected, restored and enhanced shallow lakes, wetlands, and streambanks will provide habitat to wildlife and support healthy natural resource conditions for long term benefits. The projects will offer an oasis for migratory waterfowl by re-established and connecting MCBS corridors, and flyway habitats. Improved and permanently protected areas will provide a lasting habitat for Minnesota’s unique species and provide improved access to public natural resources.*

Parcels

For restoration and enhancement programs ONLY: Managers may add, delete, and substitute projects on this parcel list based upon need, readiness, cost, opportunity, and/or urgency so long as the substitute parcel/project forwards the constitutional objectives of this program in the Project Scope table of this accomplishment plan. The final accomplishment plan report will include the final parcel list.

Parcel Information

Sign-up Criteria?

No

Explain the process used to identify, prioritize, and select the parcels on your list:

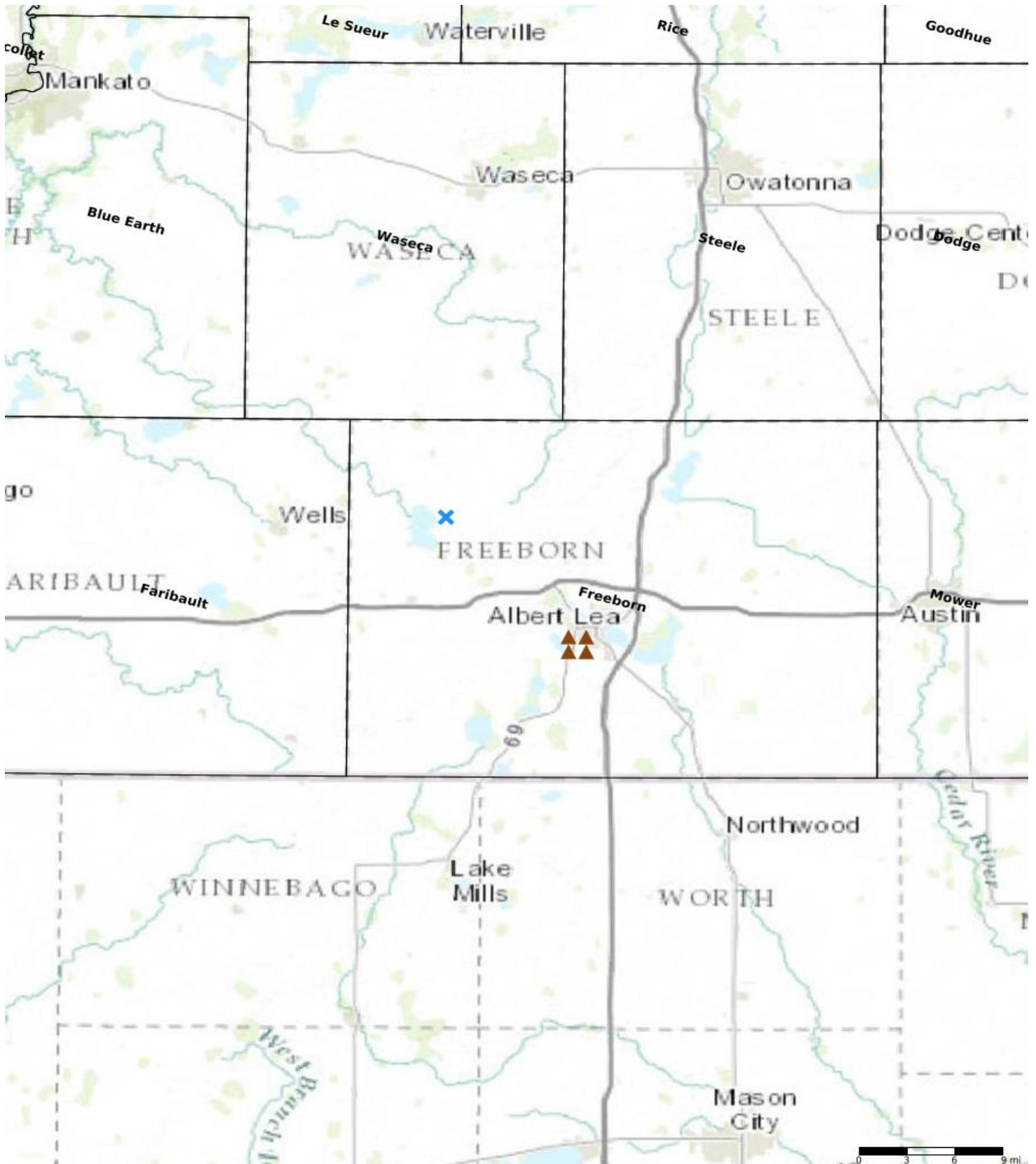
Parcels are selected using the Property Management Zones (PMZs). The PMZs are identified using precision conservation modeling, along with monitoring, and science based targeting. Parcels are then prioritized and ranked based on the degree of habitat degradation, restoration potential, and landowner interest and support.

Restore / Enhance Parcels

Name	County	TRDS	Acres	Est Cost	Existing Protection
IC & E WPA Wetland Enhancement	Freeborn	10323201	171	\$200,000	Yes

Protect Parcels

Name	County	TRDS	Acres	Est Cost	Existing Protection
Pickerel Lake Property	Freeborn	10221218	17	\$96,300	No
Pickerel Lake Property	Freeborn	10221220	47	\$332,600	No
Pickerel Lake Property	Freeborn	10221219	108	\$659,300	No
Pickerel Lake Property	Freeborn	10221217	46	\$258,800	No



- Protect in Easement
- ▲ Protect in Fee with PILT
- Protect in Fee W/O PILT
- ★ Restore
- ✕ Enhance
- ⊕ Other

Parcel Map
Shell Rock River Habitat Restoration Program -
Phase X
 (Data Generated From Parcel List)



Lessard-Sams Outdoor Heritage Council

Comparison Report

Program Title: ML 2021 - Shell Rock River Habitat Restoration Program - Phase X

Organization: Shell Rock River Watershed District

Manager: Courtney Phillips

Budget

Requested Amount: \$3,588,900

Appropriated Amount: \$1,547,000

Percentage: 43.11%

Item	Total Requested		Total Appropriated		Percentage of Request	
	Requested	Leverage	Appropriated	Leverage	Percent of Request	Percent of Leverage
Personnel	\$45,000	\$25,000	\$45,000	\$25,000	100.0%	100.0%
Contracts	\$1,324,500	-	\$155,000	-	11.7%	-
Fee Acquisition w/ PILT	\$1,342,100	-	\$1,177,300	-	87.72%	-
Fee Acquisition w/o PILT	-	-	-	-	-	-
Easement Acquisition	-	-	-	-	-	-
Easement Stewardship	-	-	-	-	-	-
Travel	-	-	-	-	-	-
Professional Services	\$454,800	\$175,000	\$164,700	\$75,000	36.21%	42.86%
Direct Support Services	-	-	-	-	-	-
DNR Land Acquisition Costs	\$15,000	-	\$5,000	-	33.33%	-
Capital Equipment	-	-	-	-	-	-
Other Equipment/Tools	-	-	-	-	-	-
Supplies/Materials	\$407,500	-	-	-	0.0%	-
DNR IDP	-	-	-	-	-	-
Grand Total	\$3,588,900	\$200,000	\$1,547,000	\$100,000	43.11%	50.0%

How will this program accommodate the reduced appropriation recommendation from the original proposed requested amount?

The SRRWD had to remove multiple projects from the Phase X proposal to fit the allocated amount. Two projects will be completed with the allocation.

Output

Acres by Resource Type (Table 1)

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	115	-	0.0%
Protect in Fee with State PILT Liability	247	218	88.26%
Protect in Fee w/o State PILT Liability	0	-	-
Protect in Easement	0	-	-
Enhance	191	171	89.53%

Total Requested Funding by Resource Type (Table 2)

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	\$544,500	-	0.0%
Protect in Fee with State PILT Liability	\$1,521,200	\$1,347,000	88.55%
Protect in Fee w/o State PILT Liability	-	-	-
Protect in Easement	-	-	-
Enhance	\$1,523,200	\$200,000	13.13%

Acres within each Ecological Section (Table 3)

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	115	-	0.0%
Protect in Fee with State PILT Liability	247	218	88.26%
Protect in Fee w/o State PILT Liability	0	-	-
Protect in Easement	0	-	-
Enhance	191	171	89.53%

Total Requested Funding within each Ecological Section (Table 4)

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	\$544,500	-	0.0%
Protect in Fee with State PILT Liability	\$1,521,200	\$1,347,000	88.55%
Protect in Fee w/o State PILT Liability	-	-	-
Protect in Easement	-	-	-
Enhance	\$1,523,200	\$200,000	13.13%

L-SOHC Grant -Shell Rock River Watershed Habitat Restoration Program

Project List

Project Title	Description	Est. Cost	Type of Project	Water Plan	Plan Priority Connection	Sub-watershed	Section, Twshp, Range	Acres	Parcel
Pickerele Lake-Adjustable outlet	Install adjustable outlet on Pickerele Lake to enhance lake habit thru periodic draw-downs	\$ 615,250	Restore	TMDL	4.0 Pickerele Lake Table 4-3, Page 15, PL-11, description pg. 21	49016	T102 R22 S13	620	99130010
Upper and Lower Twin Lake Fish Barrier and Reclamation	Maintain and enhance existing game fish population and improve waterfowl habitat	\$ 743,750	Enhance	Watershed District	Appendix B, Project Goal 6, Objective 2, Implementation Action 1	49011	T101 R22 S12	464	339200010
Upper Twin Water Level Control Station	To assist in drawdown of Upper Twin Lake to re-establish native vegetation and improve waterfowl habitat	\$ 397,500	Enhance	Watershed District	Appendix B, Project Goal 6, Objective 1, Implementation Action 1	49011	T101 R22 S02	213	49020010
Wedge Creek Reach #6 Wetland	Establishment of a wetland basin to improve waterfowl habitat	\$ 243,570	Enhance	TMDL	Page 46, Table 6-3, BMP FLWB-09, Water quality project near Wedge Creek outlets.	49013	T103 R22 S36	19	140360020
Wedge Creek Restoration Reach #6	Install BMP's for improvement of in stream spawning and over-wintering habitat of native fish species	\$ 450,800	Restore	TMDL	Page 46, Table 6-3, BMP FLWB-09, Water quality project near Wedge Creek outlets.	49013	T103 R22 S36	4	140360020
Wedge Creek Reach #1 Vegetative Restoration	Reestablish native vegetation to improve upland game and waterfowl nesting habitat	\$ 72,450	Enhance	Watershed District	Appendix E, Objective 2, Implementation Action 2	49013	T102 R21 S6	41	80060070
Pickerele Lake Site #12 Channel/Wetland Restoration	Establishment of a wetland basin to improve waterfowl habitat and Northern Pike spawning	\$ 40,250	Restore	Watershed District	Appendix B, Goal 2, Objective 3.1, Upper Watershed treatments to enhance and sustain improvements in the lake environment.	49016	T102 R22 S13	5	90505030
Targeted Habitat Acquisition; Owens Property	Protect and Reestablish native vegetation to improve upland game and waterfowl nesting habitat	\$ 400,000	Protect	Watershed District	Appendix B, Goal 2, Objective 3.2, Preservation and enhancement of shoreland and riparian zones around lakes and along water courses in the watershed.	49016	T102 R21 S30	40	80360020
Miller Tract - Wetland restoration	Establishment of a wetland basin to improve waterfowl habitat	\$ 201,250	Restore	Watershed District	Appendix B, Goal 2, Objective 3.1, Upper Watershed treatments to enhance and sustain improvements in the lake environment.	49014	T102 R23 S1	75	100010013
Targeted Habitat Acquisition; Mud Lake Property	Protect and Reestablish native vegetation to improve upland game and waterfowl nesting habitat	\$ 140,000	Protect	Watershed District	Appendix B, Goal 2, Objective 3.2, Preservation and enhancement of shoreland and riparian zones around lakes and along water courses in the watershed.	49016	T102 R22 S12	27	90120130
Targeted Habitat Acquisition; Schroeder Property	Protect and Reestablish native vegetation to improve upland game and waterfowl nesting habitat	\$ 280,000	Protect	Watershed District	Appendix B, Goal 2, Objective 3.2, Preservation and enhancement of shoreland and riparian zones around lakes and along water courses in the watershed.	49018	T101 R21 S33	23	30330040
IC & E WPA Wetland Enhancement	Establishment of native vegetation and wetland basins for waterfowl and wildlife habitat	\$ 67,725	Enhance	TMDL	Appendix B, Goal 2, Objective 3.1, Upper Watershed treatments to enhance and sustain improvements in the lake environment.	49013	T102 R22 S6	171	090060020, 090060013
Targeted Habitat Acquisition; Orr Property	Protect and Reestablish native vegetation to improve upland game and waterfowl nesting habitat	\$ 666,750	Protect	Watershed District	Appendix B, Goal 2, Objective 3.2, Preservation and enhancement of shoreland and riparian zones around lakes and along water courses in the watershed.	49007	T102 R22 S06	80	90060013
Headwaters Stream Bank Habitat Restoration	Restoration of habitat along the headwater property to improve wildlife habitat	\$ 775,625	Restore	Watershed District	Appendix E, Goal 2, Objective 3. Implemetation Action 2	49007	T102 R21 S25	25	80250021
Vandegrift Wetland Restoration	Establishment of a wetland basin to improve waterfowl habitat	\$ 225,625	Restore	TMDL	6.0 Fountain Lake, Table 6-3, pg 44, FLWB-15 description pg. 51	49013	T103 R22 S36	20	140362022
Targeted Habitat Acquisition; Belshan Property	Protect and Reestablish native vegetation to improve upland game and waterfowl nesting habitat	\$ 456,025	Protect	Watershed District	Appendix B, Goal 2, Objective 3.1, Upper Watershed treatments to enhance and sustain improvements in the lake environment.	49016	T102 R21 S20	57	80200320
Shell Rock River Streambank Restoration	Restoration of habitat along the headwater property to improve wildlife habitat	\$ 615,000	Enhance	Watershed District	Appendix E, Goal 2, Objective 3. Implemetation Action 2	49009	T101 R20 S31	15	29310030
Orr Wetland Restoration	Establishment of a wetland basin to improve waterfowl habitat	\$ 371,250	Restore	TMDL	6.0 Fountain Lake, Table 6-3, pg 44, FLWB-14 description pg. 51	49013	T102 R22 S6	80	90060013
Fountain Lake In-Lake Habitat Restoration	Creation of in-lake and shoreline habitat structures for improved fisheries habitat	\$ 1,324,775	Restore	Watershed District	Appendix B, Goal 2, Objective 3. Habitat rehabilitation that focuses on implementation of both in lake and upper watershed projects	49003	T102 R21 S05	232	348120010
Targeted Habitat Acquisition; Chrucl Lake Property	Permanently protect and provide access to Church Lake while improving the condition of habitat	\$ 609,000	Protect	Watershed District	Appendix B, Goal 2, Objective 3.2, Preservation and enhancement of shoreland and riparian zones around lakes and along water courses in the watershed.	49011	T102 R22 S26	80	90260050
Fountain Lake Pioneer Lakeshore Restoration	Restoration of habitat along Fountain Lake to improve fish spawning	\$ 137,225	Restore	Watershed District	Appendix E, Goal 2, Objective 3. Implemetation Action 2	49003	T102 R21 S8	3	347290050
Targeted Habitat Acquisition; Shell Rock River Glenville Property	Restoration of habitat along streambank property to improve wildlife habitat	\$ 132,610	Protect	Watershed District	Appendix B, Goal 2, Objective 3.2, Preservation and enhancement of shoreland and riparian zones around lakes and along water courses in the watershed.	49007	T101 R20 S06	21	275000080
Targeted Habitat Acquisition; Bancroft Property	Protection and establishment of native vegetation and wetland basins for waterfowl and wildlife habitat	\$ 857,900	Protect	Watershed District	Appendix B, Goal 2, Objective 3.1, Upper Watershed treatments to enhance and sustain improvements in the lake environment.	49012	T103 R21 S21 & 16	112	130210030, 130160060
Bancroft Wetland Restoration	Establishment of a wetland basin to improve waterfowl habitat	\$ 365,000	Restore	Watershed District	Appendix E, Goal 2, Objective 2.2 Prioritize wetlands throughout the watershed	49012	T103 R21 S21 & 16	50	130210030, 130160060
Panicum Prairie Enhancement Project	Enhance native vegetation to improve waterfowl feeding and nesting habitat in a key targeted area	\$ 477,500	Enhance	Watershed District	Appendix B, Goal 7, Objective 4. Enhance water quality throughout the restoration of aquatic plants, wildlife habitat and fisheries	49011	T101 R21 S35	300	39350010
Targeted Habitat Acquisition: Pickerele Lake Property	Protect and Reestablish native vegetation to improve upland game and waterfowl nesting habitat	\$ 1,347,000	Protect	Watershed District	Appendix B, Goal 2, Objective 3.1, Upper Watershed treatments to enhance and sustain improvements in the lake environment.	49016	T102 R21 S17,18,19,20	218	80190090, 080170070, 080180250, 080200380
IC & E WPA Wetland Enhancement	Establishment of native vegetation and wetland basins for waterfowl and wildlife habitat	\$ 200,000	Enhance	Watershed District	Appendix B, Goal 2, Objective 3.1, Upper Watershed treatments to enhance and sustain improvements in the lake environment.	49014	T102 R22 S6; T103 R23 S1	171	90060020, 090060021, 100010013, 100010014

Color Coding for Project Phases:

Phase 4	ML 15, FY 16	Expires 18 & 20	Phase 5	ML 16, FY 17	Expires 19 & 21
Phase 6	ML 17, FY 18	Expires 20 & 22	Phase 7	ML 18, FY 19	Expires 21 & 23
Phase 8	ML 19, FY 20	Expires 22 & 24	Phase 9	ML 20, FY 21	Expires 23 & 25
Phase 10	ML 21, FY 22	Expires 24 & 26			