

# Lessard-Sams Outdoor Heritage Council

## Laws of Minnesota 2017 Accomplishment Plan



**Date:** October 17, 2016

**Program or Project Title:** Accelerated Shallow Lakes and Wetland Enhancement - Phase IX

**Funds Recommended:** \$ 1,755,000

**Manager's Name:** Ricky Lien  
**Title:** Wetland Habitat Team Supervisor  
**Organization:** MN DNR  
**Address:** 500 Lafayette Road  
**City:** St. Paul, MN 55155  
**Office Number:** 651-259-5227  
**Fax Number:** 651-297-4961  
**Email:** ricky.lien@state.mn.us  
**Website:** www.dnr.state.mn.us

**Legislative Citation:** ML 2017, Ch. X, Art. X, Sec. X

**Appropriation Language:**

**County Locations:** Freeborn/Rice, Itasca, Lyon, Mille Lacs, Scott, Stearns, and Todd.

**Regions in which work will take place:**

- Forest / Prairie Transition
- Metro / Urban
- Northern Forest
- Prairie

**Activity types:**

- Enhance

**Priority resources addressed by activity:**

- Wetlands

### Abstract:

This proposal will accomplish shallow lake and wetland habitat work that will otherwise go unfunded. This habitat work will include shallow lake/wetland projects to restore and enhance habitat needed for each life stage of waterfowl. Roving Habitat Crews will be utilized to undertake needed wetland activities on public wildlife lands and habitat projects will be undertaken in critical waterfowl regions, but especially in the prairie portion of Minnesota. This work is called for in the Minnesota Prairie Conservation Plan, Long Range Duck Recovery Plan, and Shallow Lakes plan.

### Design and scope of work:

Throughout the state, remaining shallow lakes and wetlands provide critical habitat for each life stage of waterfowl and other wetland wildlife. Minnesota wetlands, besides being invaluable for waterfowl, also provide other desirable functions and values - habitat for a wide range of species, groundwater recharge, water purification, flood water storage, shoreline protection, and economic benefits.

An estimated 90% of Minnesota's prairie wetlands have been lost, more than 50% of our statewide wetland resource. Throughout the state, remaining shallow lakes and wetlands provide critical habitat for each life stage of waterfowl and other wetland wildlife. Unfortunately these benefits are too often compromised by degraded habitat quality due to excessive runoff and invasive plants and

fish. Additionally, wetlands continue to be lost or degraded by ongoing ditching and tiling from agriculture and other forces. The Minnesota PCA has documented that in our remaining wetland habitat, only about one out of five prairie wetlands has good quality vegetation, while just under a third provide good habitat for invertebrates.

There are two components to this proposal, each intended to further shallow lake and wetland restoration and management.

**ROVING HABITAT CREW** - Numerous plans pertaining to wetlands and shallow lakes call for effective management to provide maximum benefits for wildlife. Past Outdoor Heritage Fund (OHF) moneys were used to establish regional Roving Habitat Crews to address needed upland and wetland habitat management work on state wildlife properties. We have seen remarkable recoveries of both habitat quality and wildlife use of wetlands when we have invested in active management. The funding requested in this proposal will be targeted to continuing the work of the Region 3 Roving Habitat Crew in central Minnesota and will allow them to accomplish wetland habitat work that will include, but not be limited to, managing water levels, maintaining fish barriers and other wetland infrastructure, inducing winterkill of fish, controlling invasive plants and fish, and encouraging native plant assemblages.

**SHALLOW LAKES / WETLAND PROJECTS** -The habitat quality of the shallow lakes and wetlands still on the landscape can be markedly improved by controlling invasive species and rough fish, installing fish barriers where needed and aggressively managing water levels to meet management objectives. This proposal seeks to engineer and construct wetland infrastructure such as dikes, water control structures, and fish barriers, and to implement management techniques such as invasive species control and water level manipulation. The shallow lake and wetland projects identified in this proposal for enhancement were proposed and ranked by DNR Area Wildlife Supervisors through their respective Regional Wildlife Managers and were reviewed by the Wetland Habitat Team. Aerial spraying projects will target the management of dense monotypic stands of cattails that are negatively impacting the value of wetland for wildlife and eight projects involve engineering and replacing or repairing failing wetland infrastructures.

### **How does the request address MN habitats that have: historical value to fish and wildlife, wildlife species of greatest conservation need, MN County Biological Survey data, and/or rare, threatened and endangered species inventories:**

Minnesota has lost almost half of its original presettlement wetlands, with some regions of the state having lost more than 90% of their original wetlands. A statewide review of Species of Greatest Conservation Need (SGCN) found that wetlands are one of the three habitat types (along with prairies and rivers) most used by these species. This request includes wetland management actions identified to support SGCN: prevention of wetland degradation, wetland restoration, and control of invasives. In the Minnesota County Biological Survey description of the marsh community, special attention is given to two issues faced in Minnesota marshes - stable high water levels that reduce species diversity, often to a point at which a monotypic system evolves, and the "invasion of marshes by the non-native species narrow-leaved cattail" and its hybrids. Both of these issues will be addressed by projects named within this proposal. Nationwide, 43% of threatened or endangered plants and animals live in or depend on wetlands.

### **Describe the science based planning and evaluation model used:**

Shallow lakes in Minnesota are monitored and evaluated by area wildlife staff and dedicated shallow lake specialists who both identify shallow lakes needing management action and monitors the lakes post-management to assess effectiveness. The projects in this proposal were proposed by area wildlife and reviewed by regional and program specialists.

### **Which sections of the Minnesota Statewide Conservation and Preservation Plan are applicable to this program:**

- H4 Restore and protect shallow lakes
- H5 Restore land, wetlands and wetland-associated watersheds

### **Which other plans are addressed in this program:**

- Long Range Duck Recovery Plan
- Minnesota Prairie Conservation Plan

### **Which LSOHC section priorities are addressed in this program:**

#### **Forest / Prairie Transition:**

- Protect, enhance, and restore migratory habitat for waterfowl and related species, so as to increase migratory and breeding success

#### **Metro / Urban:**

- Protect from long-term or permanent endangerment from invasive species

**Northern Forest:**

- Protect shoreland and restore or enhance critical habitat on wild rice lakes, shallow lakes, cold water lakes, streams and rivers, and spawning areas

**Prairie:**

- Protect, enhance, and restore migratory habitat for waterfowl and related species, so as to increase migratory and breeding success

**Relationship to other funds:**

- Not Listed

**Describe the relationship of the funds:**

Not Listed

**How does this program include leverage in funds or other effort to supplement any OHF appropriation:**

NA

**Describe the source and amount of non-OHF money spent for this work in the past:**

Not Listed

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

The management of enhanced wetlands and shallow lakes once construction is completed will fall on existing staff of the Department of Natural Resources. These staff are funded through license fees and legislative appropriations. Periodic enhancements such as invasive species removal, supplemental vegetation planting, or water control structure installation, maintenance, or replacement, will be accomplished through annual funding requests to a variety of funding sources including, but not limited to, the Game and Fish Fund, bonding, gifts, the Environmental and Natural Resources Trust Fund, the Outdoor Heritage Fund, and federal sources such as North American Wetlands Conservation Act grants.

**Explain the things you will do in the future to maintain project outcomes:**

Year	Source of Funds	Step 1	Step 2	Step 3
Ongoing	Various Game and Fish funding	Area wildlife staff and shallow lake specialists will review completed projects and management activities to determine level of success and need for any followup actions.	Standardized shallow lake assessments will be conducted on appropriate shallow lakes to document physical results of projects or management activities.	

**Activity Details:**

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

Will there be planting of corn or any crop on OHF land purchased or restored in this program - **No**

Will restoration and enhancement work follow best management practices including MS 84.973 Pollinator Habitat Program - **Yes**

Is the activity on permanently protected land per 97A.056, subd 13(f), tribal lands, and/or public waters per MS 103G.005, Subd. 15 - **Yes (WMA, Public Waters)**

## Accomplishment Timeline:

Activity	Approximate Date Completed
Cattail control	September 30, 2020
Design and construct shallow lakes/wetland infrastructure	June 30, 2021
Roving Habitat Crew wetland enhancement work	June 30, 2021

**Date of Final Report Submission:** 11/1/2022

## Federal Funding:

Do you anticipate federal funds as a match for this program - **No**

## Outcomes:

### Programs in the northern forest region:

- Improved availability and improved condition of habitats that have experienced substantial decline *Intensive wetland management and habitat infrastructure maintenance will provide the wetland base called for in numerous prairie, shallow lake and waterfowl plans. Area wildlife staff and/or shallow lakes staff will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.*

### Programs in forest-prairie transition region:

- Wetland and upland complexes will consist of native prairies, restored prairies, quality grasslands, and restored shallow lakes and wetlands *Intensive wetland management and habitat infrastructure maintenance will provide the wetland base called for in numerous prairie, shallow lake and waterfowl plans. Area wildlife staff and/or shallow lakes staff will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.*

### Programs in metropolitan urbanizing region:

- Protected habitats will hold wetlands and shallow lakes open to public recreation and hunting *Intensive wetland management and habitat infrastructure will provide the wetland base called for in numerous prairie, shallow lake and waterfowl plans. Area wildlife staff and/or shallow lakes staff will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.*

### Programs in prairie region:

- Protected, restored, and enhanced shallow lakes and wetlands *Intensive wetland management and habitat infrastructure maintenance will provide the wetland base called for in numerous prairie, shallow lake and waterfowl plans. Area wildlife staff and/or shallow lakes staff will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.*

# Budget Spreadsheet

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

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

Projects were ranked according to priority. Lowest priority projects have been dropped. Cattail control projects will be selected by regional staff in consultation with wildlife property managers to select the most valuable work that can be done with the reduced funding.

**Total Amount of Request: \$ 1755000**

### Budget and Cash Leverage

BudgetName	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Personnel	\$385,000	\$0		\$385,000
Contracts	\$1,137,700	\$0		\$1,137,700
Fee Acquisition w/ PILT	\$0	\$0		\$0
Fee Acquisition w/o PILT	\$0	\$0		\$0
Easement Acquisition	\$0	\$0		\$0
Easement Stewardship	\$0	\$0		\$0
Travel	\$120,000	\$0		\$120,000
Professional Services	\$0	\$0		\$0
Direct Support Services	\$63,000	\$0		\$63,000
DNR Land Acquisition Costs	\$0	\$0		\$0
Capital Equipment	\$0	\$0		\$0
Other Equipment/Tools	\$0	\$0		\$0
Supplies/Materials	\$49,300	\$0		\$49,300
DNR IDP	\$0	\$0		\$0
Total	\$1,755,000	\$0		\$1,755,000

### Personnel

Position	FTE	Over # of years	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Natural Resource Specialist for Roving Habitat Crew	2.00	3.00	\$385,000	\$0		\$385,000
Total	2.00	3.00	\$385,000	\$0		\$385,000

Amount of Request: \$1,755,000

Amount of Leverage: \$0

Leverage as a percent of the Request: 0.00%

DSS + Personnel: \$448,000

As a % of the total request: 25.53%

### How did you determine which portions of the Direct Support Services of your shared support services is direct to this program:

Direct Support Services determined by standard DNR process taking into account the amount of funding and the number of allocations made with that funding.

### Does the amount in the contract line include R/E work?

The amount shown in the Contracts line is funding needed for enhancement work and is comprised of both contracting and engineering services needed to complete projects.

### Describe and explain leverage source and confirmation of funds:

Not applicable.

## Output Tables

**Table 1a. Acres by Resource Type**

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0
Protect in Easement	0	0	0	0	0
Enhance	5,135	0	0	0	5,135
Total	5,135	0	0	0	5,135

**Table 2. Total Funding by Resource Type**

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$1,755,000	\$0	\$0	\$0	\$1,755,000
Total	\$1,755,000	\$0	\$0	\$0	\$1,755,000

**Table 3. Acres within each Ecological Section**

Type	Metro Urban	ForestPrairie	SE Forest	Prairie	N Forest	Total
Restore	0	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0	0
Protect in Easement	0	0	0	0	0	0
Enhance	797	778	0	1,965	1,595	5,135
Total	797	778	0	1,965	1,595	5,135

**Table 4. Total Funding within each Ecological Section**

Type	Metro Urban	ForestPrairie	SE Forest	Prairie	N Forest	Total
Restore	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0	\$0
Enhance	\$403,600	\$202,400	\$0	\$637,700	\$511,300	\$1,755,000
Total	\$403,600	\$202,400	\$0	\$637,700	\$511,300	\$1,755,000

**Table 5. Average Cost per Acre by Resource Type**

Type	Wetlands	Prairies	Forest	Habitats
Restore	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0
Enhance	\$342	\$0	\$0	\$0

**Table 6. Average Cost per Acre by Ecological Section**

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest
Restore	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$506	\$260	\$0	\$325	\$321

**Target Lake/Stream/River Feet or Miles**

0

## Parcel List

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.

### Section 1 - Restore / Enhance Parcel List

#### Freeborn/Rice

Name	TRDS	Acres	Est Cost	Existing Protection?
Owatonna Area Water Control Structures	10322202	113	\$85,000	Yes

#### Itasca

Name	TRDS	Acres	Est Cost	Existing Protection?
Wawina Lake Enhancement	05322234	90	\$60,000	Yes

#### Lyon

Name	TRDS	Acres	Est Cost	Existing Protection?
Amiret WCS replacement	11040205	300	\$240,000	Yes

#### Mille Lacs

Name	TRDS	Acres	Est Cost	Existing Protection?
Water Control Replacement-Mille Lacs WMA (Jones)	04026209	730	\$145,000	Yes
Water Control Replacement-Rum River State Forest	04026234	285	\$145,000	Yes

#### Scott

Name	TRDS	Acres	Est Cost	Existing Protection?
Bradshaw Dike Replacement	11322215	28	\$127,000	Yes

#### Stearns

Name	TRDS	Acres	Est Cost	Existing Protection?
Regions 1,3, and 4 Cattail Control	12534213	1,919	\$215,000	Yes

#### Todd

Name	TRDS	Acres	Est Cost	Existing Protection?
Grey Eagle WMA structure engineering	12733209	0	\$20,000	Yes

### Section 2 - Protect Parcel List

No parcels with an activity type protect.

#### Section 2a - Protect Parcel with Bldgs

No parcels with an activity type protect and has buildings.

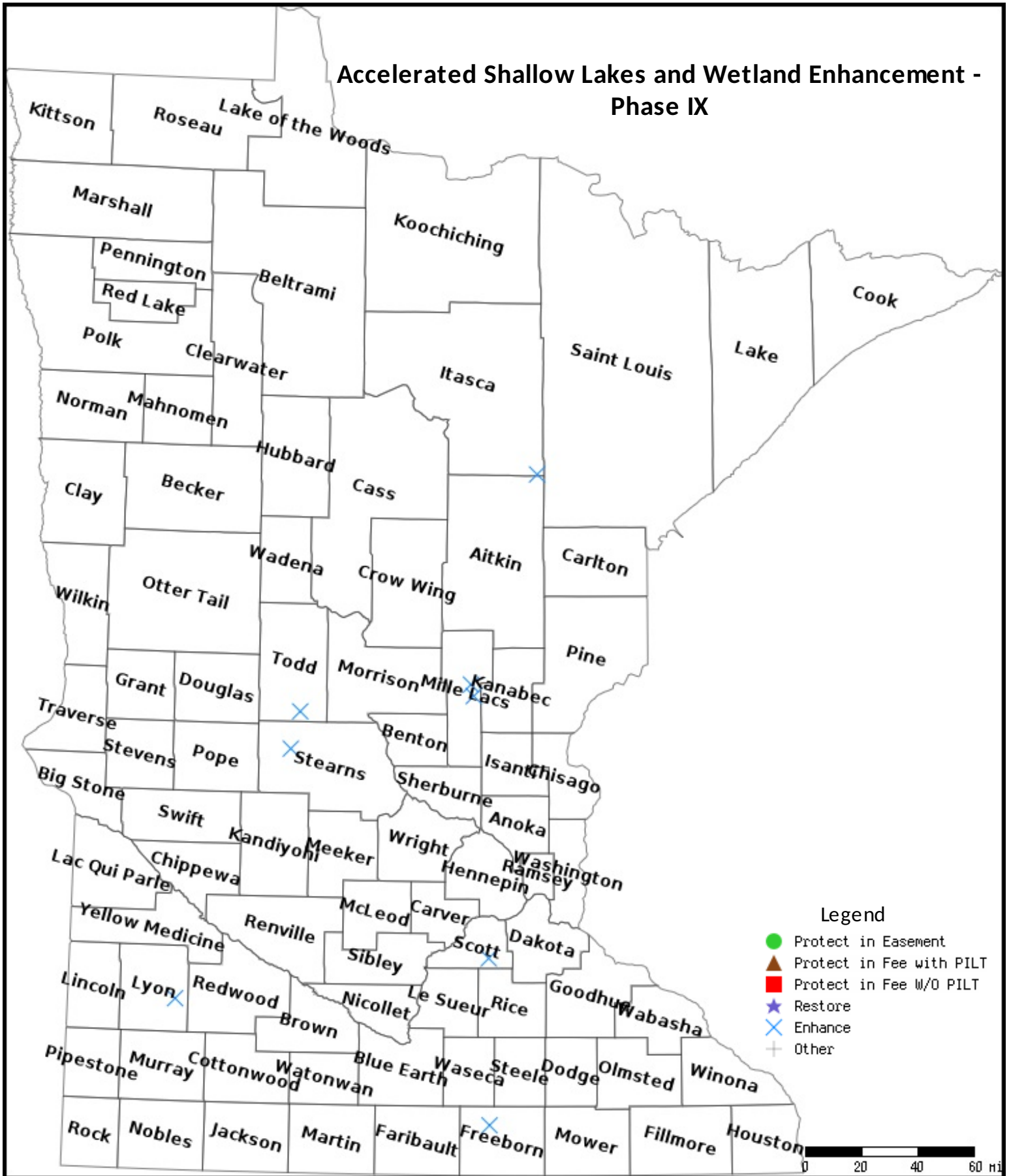
### Section 3 - Other Parcel Activity

No parcels with an other activity type.



# Parcel Map

## Accelerated Shallow Lakes and Wetland Enhancement - Phase IX



Data Generated From Parcel List



# Lessard-Sams Outdoor Heritage Council Comparison Report

**Program Title:** 2017 - Accelerated Shallow Lakes and Wetland Enhancement - Phase IX

**Organization:** MN DNR

**Manager:** Ricky Lien

## Budget

Requested Amount: \$3,000,000

Appropriated Amount: \$1,755,000

Percentage: 58.50%

Budget Item	Total Requested		Total Appropriated		Percentage of Request	
	LSOHC Request	Anticipated Leverage	Appropriated Amount	Anticipated Leverage	Percentage of Request	Percentage of Leverage
Personnel	\$515,000	\$0	\$385,000	\$0	74.76%	-
Contracts	\$1,595,000	\$0	\$1,137,700	\$0	71.33%	-
Fee Acquisition w/ PILT	\$0	\$0	\$0	\$0	-	-
Fee Acquisition w/o PILT	\$0	\$0	\$0	\$0	-	-
Easement Acquisition	\$0	\$0	\$0	\$0	-	-
Easement Stewardship	\$0	\$0	\$0	\$0	-	-
Travel	\$160,000	\$0	\$120,000	\$0	75.00%	-
Professional Services	\$265,000	\$0	\$0	\$0	0.00%	-
Direct Support Services	\$85,000	\$0	\$63,000	\$0	74.12%	-
DNR Land Acquisition Costs	\$0	\$0	\$0	\$0	-	-
Capital Equipment	\$160,000	\$0	\$0	\$0	0.00%	-
Other Equipment/Tools	\$0	\$0	\$0	\$0	-	-
Supplies/Materials	\$220,000	\$0	\$49,300	\$0	22.41%	-
DNR IDP	\$0	\$0	\$0	\$0	-	-
<b>Total</b>	<b>\$3,000,000</b>	<b>\$0</b>	<b>\$1,755,000</b>	<b>\$0</b>	<b>58.50%</b>	<b>-</b>

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

Projects were ranked according to priority. Lowest priority projects have been dropped. Cattail control projects will be selected by regional staff in consultation with wildlife property managers to select the most valuable work that can be done with the reduced funding.

# Output

**Table 1a. Acres by Resource Type**

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	22	0	0.00%
Protect in Fee with State PILT Liability	0	0	-
Protect in Fee W/O State PILT Liability	0	0	-
Protect in Easement	0	0	-
Enhance	10,148	5,135	50.60%

**Table 2. Total Funding by Resource Type**

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	108,100	0	0.00%
Protect in Fee with State PILT Liability	0	0	-
Protect in Fee W/O State PILT Liability	0	0	-
Protect in Easement	0	0	-
Enhance	2,891,900	1,755,000	60.69%

**Table 3. Acres within each Ecological Section**

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	22	0	0.00%
Protect in Fee with State PILT Liability	0	0	-
Protect in Fee W/O State PILT Liability	0	0	-
Protect in Easement	0	0	-
Enhance	10,148	5,135	50.60%

**Table 4. Total Funding within each Ecological Section**

Type	Total Proposed	Total in AP	Percentage of Proposed
Restore	108,100	0	0.00%
Protect in Fee with State PILT Liability	0	0	-
Protect in Fee W/O State PILT Liability	0	0	-
Protect in Easement	0	0	-
Enhance	2,891,900	1,755,000	60.69%