

## Lessard-Sams Outdoor Heritage Council

### Laws of Minnesota 2013 Final Report



**Date:** October 31, 2018

**Program or Project Title:** Accelerated Wetland and Shallow Lake Enhancement

**Funds Recommended:** \$1,790,000

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**Legislative Citation:** ML 2013, Ch. 137, Art. 1, Sec. 2, Subd. 4(f)

**Appropriation Language:** \$1,790,000 in the first year is to the commissioner of natural resources to enhance and restore shallow lakes, including \$210,000 for an agreement with Ducks Unlimited to help implement restorations and enhancements. A list of proposed land restorations and enhancements must be provided as part of the required accomplishment plan.

**County Locations:** Freeborn, Mille Lacs, Morrison, Nicollet, Roseau, and Todd.

#### **Eco regions in which work was completed:**

- Northern Forest
- Forest / Prairie Transition
- Prairie

#### **Activity types:**

- Enhance

#### **Priority resources addressed by activity:**

- Wetlands

### **Summary of Accomplishments:**

Many of Minnesota's wetlands have been lost and the remainder degraded. The original proposal planned for 15,000 acres of wetland/shallow lake enhancement to provide critical habitat for each life stage of waterfowl and wetland wildlife. The six projects subsequently completed with this appropriation enhanced 13,800 acres of wetlands and shallow lakes in the Prairie and Forest/Prairie Ecoregions of Minnesota.

### **Process & Methods:**

Minnesota's "Long Range Duck Recovery Plan," released in 2006, identified a strategic 50-year vision to "restore, protect, and manage a landscape capable of supporting an average spring breeding population of one million ducks and restoring the historically abundant spring and fall migration of waterfowl." A key component of this plan is the restoration and enhancement of 2 million acres of habitat.

With this specific appropriation, the DNR completed work on 6 valuable habitat projects:

- Completion of a fish barrier and structure to enhance 10,000 of Swan Lake. Ducks Unlimited (DU) designed and oversaw construction

of this project. Available funding also allowed for additional work on the outlet channel to facilitate water movement.

- Construction of a water control structure and dike renovation for Pool 1 of Roseau River Wildlife Area enhanced 1,150 acres of wetland habitat.
- Hartford WMA had a water control structure replaced and dike renovated to bring back water to 20 acres of wetland.
- 166 acres of wetland are being enhanced through the replacement of two water control structures and dike renovation at Ereaux WMA in Morrison County.
- Mille Lacs WMA is undergoing extensive work to replace failed water control structures and renovate associated dikes. This work involves funding from two OHF appropriation. Half of the completed wetland habitat enhancement work - 2,475 - will be accounted for in this final report. The remaining 2,475 acres will be reported in the ML14 OHF appropriation final report.
- The State Line Lake project, in southern Freeborn County, involved construction at the shallow lake outlet and a rotenone treatment to remove unwanted fish. Ducks Unlimited completed the construction and reported all the project acres in their final report for the DU appropriation that included funding for that portion of the project. The rotenone treatment was completed with funding from this DNR appropriation. NOTE: This final report will not report acres for State Line Lake, as they have already been reported by DU. Also, State Line Lake became the first project to use the large pump purchased by DU and provided to the DNR. Pictures are attached to this final report.

## Explain Partners, Supporters, & Opposition:

Ducks Unlimited is a valuable partner in many wetland and shallow lake projects in Minnesota. Projects at State Line Lake and Swan Lake were completed thanks to DU engineering and construction oversight.

## Additional Comments:

### *Exceptional challenges, expectations, failures, opportunities, or unique aspects of program*

Project to install, renovate, or replace major wetland and shallow lake infrastructure are among our most challenging projects to initiate, design, and construct due to cost, engineering hurdles, weather challenges, and the unique nature of many of these projects. The ability to modify project lists within the shallow lake/wetland programmatic OHF appropriations is critical to allow project managers to address these challenges and accomplish habitat work in an efficient and effective manner.

## Other Funds Received:

- Not Listed

### **How were the funds used to advanced the program:**

Interest in Minnesota's wetland and shallow lake habitats has resulted in numerous initiatives with a variety of funding sources, including the Environmental and Natural Resource Trust Fund and Clean Water Fund. The work from this proposal will complement the goals of other funds, though project selection is based on wildlife benefits.

## What is the plan to sustain and/or maintain this work after the Outdoor Heritage Funds are expended:

Construction work designed and overseen by MN DNR engineers is subject to project review by trained engineers to ensure work is done in a satisfactory manner. DNR property managers are responsible for inspecting projects periodically to determine effectiveness and the need to any management actions. Shallow lake projects are visited by shallow lake specialists at periodic intervals for systematic assessments to determine habitat conditions, document changes, and anticipate management needs in the future.

## Outcomes:

### *The original accomplishment plan stated the program would*

#### **Programs in the northern forest region:**

- Protected, restored, and enhanced shallow lakes and wetlands

#### **How will the outcomes be measured and evaluated?**

Not Listed

#### **Programs in forest-prairie transition region:**

- Protected, restored, and enhanced nesting and migratory habitat for waterfowl, upland birds, and species of greatest conservation need

- Wetland and upland complexes will consist of native prairies, restored prairies, quality grasslands, and restored shallow lakes and wetlands
- Protected, restored, and enhanced shallow lakes and wetlands

**How will the outcomes be measured and evaluated?**

Not Listed

**Programs in prairie region:**

- Protected, restored, and enhanced shallow lakes and wetlands

**How will the outcomes be measured and evaluated?**

Not Listed

# Budget Spreadsheet

Final Budget line item reallocations are allowed up to 10% and do not need require an amendment to the Accomplishment Plan

Total Amount: \$1,790,000

## Budget and Cash Leverage

BudgetName	Request	Spent	Cash Leverage (anticipated)	Cash Leverage (received)	Leverage Source	Total (original)	Total (final)
Personnel	\$18,000	\$19,400	\$0	\$0		\$18,000	\$19,400
Contracts	\$1,501,500	\$1,544,700	\$0	\$0		\$1,501,500	\$1,544,700
Fee Acquisition w/ PILT	\$0	\$0	\$0	\$0		\$0	\$0
Fee Acquisition w/o PILT	\$0	\$0	\$0	\$0		\$0	\$0
Easement Acquisition	\$0	\$0	\$0	\$0		\$0	\$0
Easement Stewardship	\$0	\$0	\$0	\$0		\$0	\$0
Travel	\$4,500	\$1,900	\$0	\$0		\$4,500	\$1,900
Professional Services	\$136,000	\$135,400	\$0	\$0		\$136,000	\$135,400
Direct Support Services	\$130,000	\$62,300	\$0	\$0		\$130,000	\$62,300
DNR Land Acquisition Costs	\$0	\$0	\$0	\$0		\$0	\$0
Capital Equipment	\$0	\$0	\$0	\$0		\$0	\$0
Other Equipment/Tools	\$0	\$0	\$0	\$0		\$0	\$0
Supplies/Materials	\$0	\$2,900	\$0	\$0		\$0	\$2,900
DNR IDP	\$0	\$0	\$0	\$0		\$0	\$0
<b>Total</b>	<b>\$1,790,000</b>	<b>\$1,766,600</b>	<b>\$0</b>	<b>\$0</b>		<b>\$1,790,000</b>	<b>\$1,766,600</b>

## Personnel

Position	FTE	Over # of years	Spent	Cash Leverage	Leverage Source	Total
DU Professional Bioengineering Staff	0.25	1.00	\$19,400	\$0		\$19,400
<b>Total</b>	<b>0.25</b>	<b>1.00</b>	<b>\$19,400</b>	<b>\$0</b>		<b>\$19,400</b>

## Budget and Cash Leverage by Partnership

BudgetName	Partnership	Request	Spent	Cash Leverage (anticipated)	Cash Leverage (received)	Leverage Source	Original AP Total	Total Spent
Personnel	Ducks Unlimited	\$18,000	\$19,400	\$0	\$0		\$18,000	\$19,400
Contracts	Ducks Unlimited	\$187,500	\$177,600	\$0	\$0		\$187,500	\$177,600
Fee Acquisition w/ PILT	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
Fee Acquisition w/o PILT	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
Easement Acquisition	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
Easement Stewardship	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
Travel	Ducks Unlimited	\$4,500	\$1,900	\$0	\$0		\$4,500	\$1,900
Professional Services	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
Direct Support Services	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
DNR Land Acquisition Costs	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
Capital Equipment	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
Other Equipment/Tools	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
Supplies/Materials	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
DNR IDP	Ducks Unlimited	\$0	\$0	\$0	\$0		\$0	\$0
<b>Total</b>		<b>\$210,000</b>	<b>\$198,900</b>	<b>\$0</b>	<b>\$0</b>		<b>\$210,000</b>	<b>\$198,900</b>

## Personnel - Ducks Unlimited

Position	FTE	Over # of years	Spent	Cash Leverage	Leverage Source	Total
DU Professional Bioengineering Staff	0.25	1.00	\$19,400	\$0		\$19,400
Total	0.25	1.00	\$19,400	\$0		\$19,400

BudgetName	Partnership	Request	Spent	Cash Leverage (anticipated)	Cash Leverage (received)	Leverage Source	Original AP Total	Total Spent
Personnel	MN DNR	\$0	\$0	\$0	\$0		\$0	\$0
Contracts	MN DNR	\$1,314,000	\$1,367,100	\$0	\$0		\$1,314,000	\$1,367,100
Fee Acquisition w/ PILT	MN DNR	\$0	\$0	\$0	\$0		\$0	\$0
Fee Acquisition w/o PILT	MN DNR	\$0	\$0	\$0	\$0		\$0	\$0
Easement Acquisition	MN DNR	\$0	\$0	\$0	\$0		\$0	\$0
Easement Stewardship	MN DNR	\$0	\$0	\$0	\$0		\$0	\$0
Travel	MN DNR	\$0	\$0	\$0	\$0		\$0	\$0
Professional Services	MN DNR	\$136,000	\$135,400	\$0	\$0		\$136,000	\$135,400
Direct Support Services	MN DNR	\$130,000	\$62,300	\$0	\$0		\$130,000	\$62,300
DNR Land Acquisition Costs	MN DNR	\$0	\$0	\$0	\$0		\$0	\$0
Capital Equipment	MN DNR	\$0	\$0	\$0	\$0		\$0	\$0
Other Equipment/Tools	MN DNR	\$0	\$0	\$0	\$0		\$0	\$0
Supplies/Materials	MN DNR	\$0	\$2,900	\$0	\$0		\$0	\$2,900
DNR IDP	MN DNR	\$0	\$0	\$0	\$0		\$0	\$0
Total		\$1,580,000	\$1,567,700	\$0	\$0		\$1,580,000	\$1,567,700

### Explain any budget challenges or successes:

Major infrastructure projects for shallow lakes and wetlands are challenging to budget for given the unique nature of each project. The ability given in our shallow lake/wetland programmatic OHF appropriation to modify our project lists enables us to balance needs among the various projects. LSOHC and staff are accommodating of our need to occasionally amend our budget to address changing scenarios.

### All revenues received by the recipient that have been generated from activities on land with money from the OHF:

Total Revenue: \$0  
 Revenue Spent: \$0  
 Revenue Balance: \$0

- E. This is not applicable as there was no revenue generated.

# Output Tables

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

Type	Wetlands (original)	Wetlands (final)	Prairies (original)	Prairies (final)	Forest (original)	Forest (final)	Habitats (original)	Habitats (final)	Total (original)	Total (final)
Restore	0	0	0	0	0	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0	0	0	0	0	0
Protect in Easement	0	0	0	0	0	0	0	0	0	0
Enhance	15,355	13,811	0	0	0	0	0	0	15,355	13,811
Total	15,355	13,811	0	0	0	0	0	0	15,355	13,811

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

Type	Wetlands (original)	Wetlands (final)	Prairies (original)	Prairies (final)	Forest (original)	Forest (final)	Habitats (original)	Habitats (final)	Total (original)	Total (final)
Restore	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Enhance	\$1,790,000	\$1,766,600	\$0	\$0	\$0	\$0	\$0	\$0	\$1,790,000	\$1,766,600
Total	\$1,790,000	\$1,766,600	\$0	\$0	\$0	\$0	\$0	\$0	\$1,790,000	\$1,766,600

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

Type	Metro Urban (original)	Metro Urban (final)	ForestPrairie (original)	Forest Prairie (final)	SE Forest (original)	SE Forest (final)	Prairie (original)	Prairie (final)	N Forest (original)	N Forest (final)	Total (original)	Total (final)
Restore	0	0	0	0	0	0	0	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0	0	0	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0	0	0	0	0	0	0	0
Protect in Easement	0	0	0	0	0	0	0	0	0	0	0	0
Enhance	0	0	1,152	1,336	0	0	11,303	10,000	2,900	2,475	15,355	13,811
Total	0	0	1,152	1,336	0	0	11,303	10,000	2,900	2,475	15,355	13,811

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

Type	Metro Urban (original)	Metro Urban (final)	ForestPrairie (original)	Forest Prairie (final)	SE Forest (original)	SE Forest (final)	Prairie (original)	Prairie (final)	N Forest (original)	N Forest (final)	Total (original)	Total (final)
Restore	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$316,200	\$976,500	\$0	\$0	\$1,128,500	\$213,200	\$345,300	\$576,900	\$1,790,000	\$1,766,600
Total	\$0	\$0	\$316,200	\$976,500	\$0	\$0	\$1,128,500	\$213,200	\$345,300	\$576,900	\$1,790,000	\$1,766,600

*Automatic system calculation / not entered by managers*

**Target Lake/Stream/River Feet or Miles (original)**

0

**Target Lake/Stream/River Feet or Miles (final)**

0

**Explain the success/shortage of acre goals:**

Not Listed

# Parcel List

## Section 1 - Restore / Enhance Parcel List

Freeborn					
Name	TRDS	Acres	Total Cost	Existing Protection?	Description
State Line Lake WMA - Rotenone	11022233	0	\$14,200	Yes	Piscicide Treatment
Mille Lacs					
Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Mille Lacs WMA HQ - WCS	04026216	2,475	\$576,942	Yes	Construction
Morrison					
Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Ereaux WMA	13031230	166	\$574,400	Yes	Construction
Nicollet					
Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Swan Lake WMA - Fish Barrier	10928206	10,000	\$199,000	Yes	Construction
Roseau					
Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Roseau WMA Pool 1 W - WCS	16342209	1,150	\$328,483	Yes	Construction
Todd					
Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Hartford WMA - WCS	13033224	5	\$73,600	Yes	Construction

## 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.



## Completed Parcel: Ereaux WMA

# of Total Acres:	166
County:	Morrison
Township:	130
Range:	31
Direction:	2
Section:	30
# of Acres: Wetlands/Upland:	166
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	
Total cost of Restoration/Enhancement:	\$574,400

## Completed Parcel: Hartford WMA - WCS

# of Total Acres:	5
County:	Todd
Township:	130
Range:	33
Direction:	2
Section:	24
# of Acres: Wetlands/Upland:	5
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$73,594

## Completed Parcel: Mille Lacs WMA HQ - WCS

# of Total Acres:	2475
County:	Mille Lacs
Township:	040
Range:	26
Direction:	2
Section:	16
# of Acres: Wetlands/Upland:	2475
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	
Total cost of Restoration/Enhancement:	\$576,942

## Completed Parcel: Roseau WMA Pool 1 W - WCS

# of Total Acres:	1150
County:	Roseau
Township:	163
Range:	42
Direction:	2
Section:	09
# of Acres: Wetlands/Upland:	1150
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	
Total cost of Restoration/Enhancement:	\$328,483

## Completed Parcel: State Line Lake WMA - Rotenone

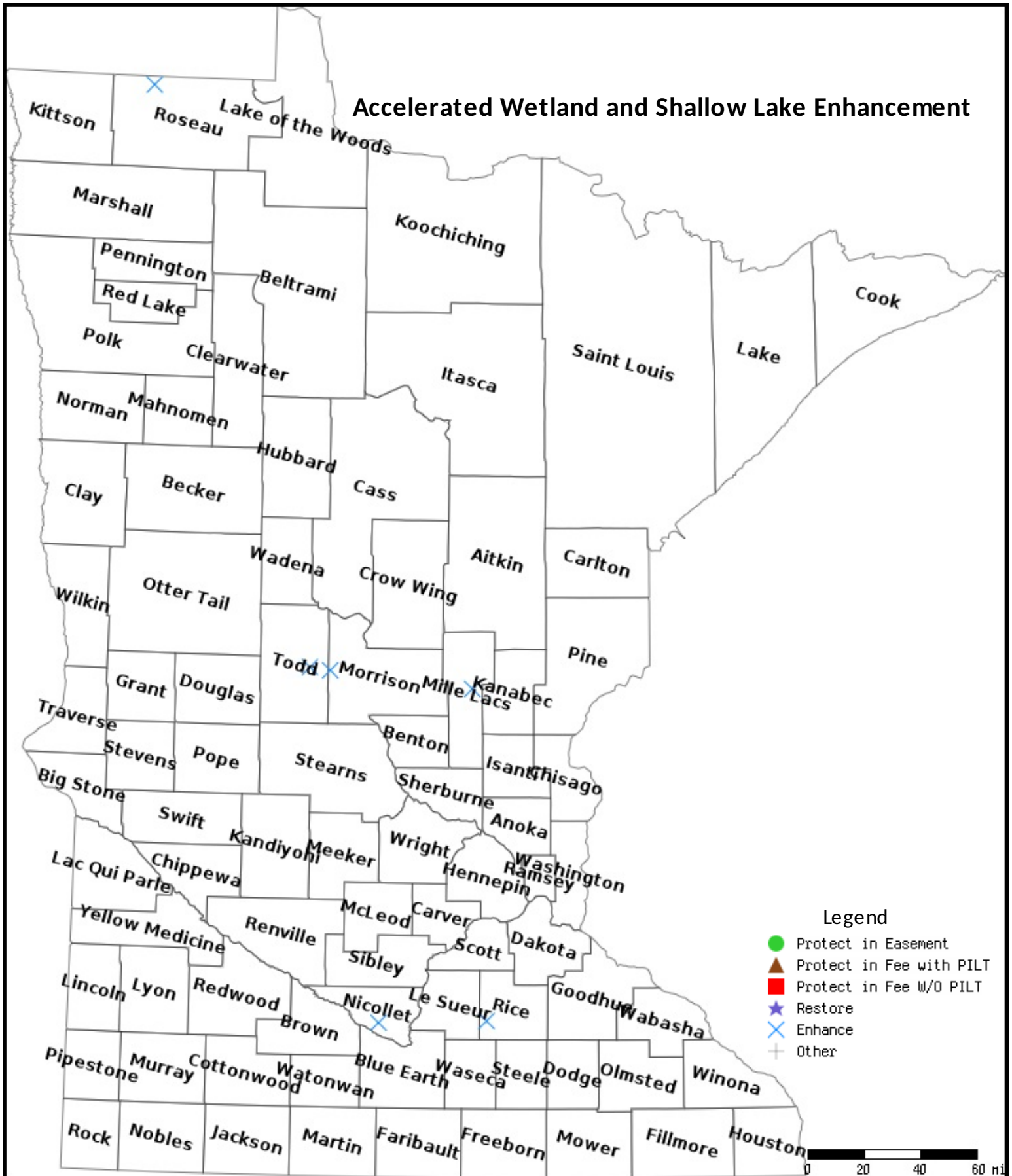
# of Total Acres:	0
County:	Freeborn
Township:	110
Range:	22
Direction:	2
Section:	33
# of Acres: Wetlands/Upland:	
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$14,227

## Completed Parcel: Swan Lake WMA - Fish Barrier

# of Total Acres:	10000
County:	Nicollet
Township:	109
Range:	28
Direction:	2
Section:	06
# of Acres: Wetlands/Upland:	10000
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$199,000

# Parcel Map

## Accelerated Wetland and Shallow Lake Enhancement



### Legend

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

