

# Lessard-Sams Outdoor Heritage CouncilShallow Lakes and Wetland Enhancements Phase 18 (Habitat Projects/Critical Staff Combination)ML 2026 Request for Funding

## General Information

**Date:** 08/18/2025

**Proposal Title:** Shallow Lakes and Wetland Enhancements Phase 18 (Habitat Projects/Critical Staff Combination)

**Funds Requested:** $23,339,500

**Confirmed Leverage Funds:** -

**Is this proposal Scalable?:** Yes

### Manager Information

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

### Location Information

**County Location(s):** Redwood, Otter Tail, Murray, Swift, Lyon, Cottonwood, Chippewa, Lac qui Parle, Pope, Lincoln, Meeker, Yellow Medicine, Stevens, Todd, Jackson, Clay, Brown, Cass, St. Louis, Aitkin, Mille Lacs, Douglas, Stearns and Red Lake.

**Eco regions in which work will take place:**

Forest / Prairie Transition

Northern Forest

Prairie

**Activity types:**

Enhance

Restore

Other : Project engineering, habitat assessments

**Priority resources addressed by activity:**

Wetlands

Forest

## Narrative

### Abstract

This proposal will implement wetland and shallow lake projects impacting over 11,000 acres. Planned work includes both restoration and enhancement of habitat via construction (tile breaks, ditchplugs, sediment removal, placement of infrastructure, etc.) and management (cattail spraying and management, unwanted fish control, etc.) actions. Additionally, this proposal will maintain ten Wetland Habitat Team positions, plus two field season technicians. These positions were established beginning in 2011 via OHF funding to expand and accelerate shallow lake and wetland habitat efforts. Waterfowl and other wetland-dependent species will benefit greatly from the proposed habitat work.

### Design and Scope of Work

In addition to being critical for waterfowl, wetlands and shallow lakes provide 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 and more than 50% of our statewide wetlands. Wetlands that remain are often compromised by degraded quality. This proposal will accomplish wetland habitat work throughout Minnesota on state lands and public waters, though the majority of work will occur in the strategic prairie region of Minnesota.

Projects identified on the parcel list were proposed and reviewed by DNR Area and Regional supervisors and Wetland Habitat Team staff. Planned work includes wetland infrastructure construction, including water control structures and dikes, sediment removal, tile breaks, and ditch plugs needed to bring about wetland habitat enhancement and restoration. Direct management actions such as cattail and other invasive species control, water level manipulation, and wild rice seeding will be employed to bring about needed wetland enhancement. Additionally, two infrastructure projects will be surveyed and engineered for future construction. Doing this preliminary engineering work allows us to determine project feasibility, identify infrastructure options, and obtain accurate cost estimates. Aerial herbicide treatments will continue on thousands of acres monotypic hybrid cattails. This work is made possible by an OHF-acquired spray unit mounted on a DNR helicopter, but requires annual funding for herbicide and helicopter expenses. A management action welcomed by DNR property managers facing problematic stands of monotypic cattails, it is estimated that approximately 2500 acres of cattails will be treated annually.

The Shallow Lakes Program (SLP) and the Wetland Management Program (WMP) are two components of the DNR's Wetland Habitat Team. The SLP focuses on assessments and management of Minnesota's shallow lakes to provide critical waterfowl habitat. OHF funds were used to expand the SLP by three shallow lake specialists in 2011, with another OHF-funded specialist added in 2018. Subsequent OHF appropriations provided funding to maintain these positions. The WMP consists of five staff, all hired by two OHF appropriations. The WMP focuses its work on habitat complexes especially valuable for waterfowl production. The most recent position added to the Wetland Habitat Team with OHF funding is a State Wetland Project Consultant position hired in 2023. These 10 OHF-funded positions are critical to advancing wetland and shallow lake work in Minnesota and the funding requested in this proposal is required to keep them in the field through FY28, plus includes funding for two field-season technicians.

To improve efficiency and meet mutual goals, projects may be done in cooperation with Duck Unlimited or other conservation partners. Parcels may be added, modified, or deleted from the parcel list to accommodate engineering feasibility results, provide resources to new opportunities, or to address the challenges associated with complex shallow lake and wetland projects. All changes shall be in keeping with the scope of the project and will be fully reported in the subsequent Final Report.

### Explain how the proposal addresses habitat protection, restoration, and/or enhancement for fish, game & wildlife, including threatened or endangered species conservation

The Minnesota Duck Action Plan 2025-2030 notes that, "The restoration, protection, and enhancement of duck habitat is a vital part of the Minnesota DNR's mission," and the Plan goes on to state this work is a specific goal. The need for this work is additionally identified in Managing Minnesota's Shallow Lakes for Waterfowl and Wildlife, and the Minnesota Duck Recovery Plan, highlighting the need for the staff who will be funded by this proposal. These people will allow for shallow lake and wetland restoration and enhancement work that will not otherwise be possible. Approximately 50% of all federally endangered animal are wetland-related. As a measure of the importance of wetlands to Minnesota Species of Greatest Conservation Need (SGCN), the word 'wetland' appears 127 times in Minnesota's Wildlife Action Plan 2015-2025 (WAP). Conservation Focus Areas are priority areas for working with partners to identify, design, and implement conservation actions and report on the effectiveness toward achieving the goals and objectives defined in the Wildlife Action Plan. Target Habitat Complexes within Conservation Focus Areas commonly include Prairie Wetland Complexes and other wetland community types. The protection and management of wetlands and wetland/grassland complexes are noted extensively in the discussion of Conservation Focus Area Target, Conservation Issues and Approaches. Specific management actions mentioned include reed canary grass and invasive cattail control, "natural disturbance management" (i.e. water level management, prescribed fire, woody vegetation removal). Target Habitat Complexes within Conservation Focus Areas commonly include Prairie Wetland Complexes and other wetland community types. As noted in the WAP, wet meadows and fens typically provide optimal habitat for sedge wrens, yellow rails, Nelson’s sharp-tailed sparrows and numerous other SGCN. Wetland Management Options to support SGCN include prevention of wetland degradation, restoration of wetland complexes, and management of invasive, all actions implemented by staff supported by this OHF proposal. For shallow lake habitat, examples of SGCN include lesser scaup, northern pintail, common moorhen, least bitterns, American bitterns, marsh wrens, and Virginia rails. Wetland management actions to benefit SGCN include the restoration of large complexes of shallow lakes and wetlands.

### What are the elements of this proposal that are critical from a timing perspective?

The Status and Trends of Wetlands in Minnesota: Depressional Wetland Quality Assessment (2007 – 2012), produced by the Minnesota Pollution Control Agency, noted that wetlands in the prairie and central regions of the state are dominated by degraded vegetation communities. Vegetation communities in more than half of these depressional wetlands are in poor condition (56% ), with only 17% in good condition, similar to the quality of all wetland types in the central hardwood and former prairie regions. Non-native invasive plants are having the greatest impact. In other words, not only have most wetlands been lost in much of the prairie and forest-transition areas of Minnesota, what remains are degraded and need management action to produce quality habitat. Work as described in this proposal will provide needed habitat, while also providing the other benefits found in healthy wetlands - water quality, floodwater storage, places to hunt and recreate, and carbon sequestration.

### Describe how the proposal expands habitat corridors or complexes and/or addresses habitat fragmentation:

The Minnesota Duck Recovery Plan goals include boosting the state's breeding duck population. The most productive prairie waterfowl habitat is a mix of wetland and grassland as a habitat complex. A complex could be 4 - 9 square miles and should be comprised of 10% temporary/seasonal wetlands, 10% permanent wetlands, and 40% grasslands, with the remaining 40% available for crops. In addition to mixes of grasslands and healthy wetlands, The Duck Plan also called for accelerated efforts to restore 1,800 shallow lakes, including wild rice lakes.

The Minnesota Prairie Conservation Plan, which is a plan for both uplands and wetlands in the prairie region of Minnesota, outlines focal areas (Core Areas and Habitat Complexes) where we can build on an existing base of conservation lands and improve the habitat there. The Prairie Wetland Initiative component of this OHF proposal would contribute to these identified Core Areas and Habitat Complexes by working to actively manage and improve small wetlands on public lands, especially on those lands contributing to the Minnesota Comprehensive Prairie Plan. The Status and Trends of Wetlands in Minnesota: Depressional Wetland Quality Assessment (2007 – 2012), produced by the Minnesota Pollution Control Agency, noted that while most wetlands in northern Minnesota are in good condition, the opposite is true in the central and former prairie regions of the state, where degraded vegetation communities are predominant. Vegetation communities in more than half of these depressional wetlands are in poor condition (56% ), with only 17% in good condition, similar to the quality of all wetland types in the central hardwood and former prairie regions. Non-native invasive plants are having the greatest impact.

The work done by the staff supported by this OHF proposal will directly contribute to expanded and healthy wetland complexes and increased shallow lakes work. Work will renovate existing wetland infrastructure and establish new management, especially in the critical prairie region of Minnesota. More specifically, the work done by the Wetland Management Program is targeted to identify key wetland complexes in the prairie region and bring management actions to the wetlands of those complexes.

### Which top 2 Conservation Plans referenced in MS97A.056, subd. 3a are most applicable to this project?

Long Range Duck Recovery Plan

Managing Minnesota's Shallow Lakes for Waterfowl and Wildlife

### Explain how this proposal will uniquely address habitat resilience to climate change and its anticipated effects on game, fish & wildlife species utilizing the protected or restored/enhanced habitat this proposal targets.

Highlighting just how important wetlands are to adaptation and climate action, the Global Center on Climate Adaptation noted, “Wetlands capture CO₂ from the atmosphere, making them nature’s own solution to the climate emergency. In fact, they store more carbon than any other ecosystem on Earth, and peatlands alone store twice as much as all the world’s forests. According to Ramsar’s Scientific and Technical Review Panel, wetlands cover only nine percent of the planet’s surface, but store up to 35 percent of terrestrial carbon.” Additionally, wetlands and shallow lakes provide the ability to hold precipitation and run-off that occur from major storm events that occur more frequently due to climate change.

### Which LSOHC section priorities are addressed in this proposal?

**Forest / Prairie Transition**

Protect, enhance, and restore wild rice wetlands, shallow lakes, wetland/grassland complexes, aspen parklands, and shoreland that provide critical habitat for game and nongame wildlife

### Describe how this project/program will produce and demonstrate a significant and permanent conservation legacy and/or outcomes for fish, game, and wildlife, and if not permanent outcomes, why it is important to undertake at this time:

Three elements relate to this proposal's ability to produce a significant and permanent conservation legacy.

First, the scale of shallow lake and wetland work in the proposal projects is impressive. The acreage being impacted by restoration and enhancement work is able to produce results locally and statewide.

Second, the infrastructure (water control structures, dikes, fish barriers) projects in this proposal will be worked on by qualified engineers who will design and oversee construction and renovation to achieve long-lasting results. A typical goal is to have constructed water control structures, dikes and fish barriers with a life expectancy of last a minimum of 30-40 years. These projects will be on public waters or publicly-owned or eased lands.

Third, the type of work being done through this proposal, Shallow lake enhancement and wetland restoration, are key components of all significant conservation plans for Minnesota affecting Minnesota. The work is needed to restore wetlands, 90% of which have been lost in the prairies and many of the remaining ones are degraded. Key state conservation plans such as Minnesota’s Prairie Conservation Plan, Long Range Duck Recovery Plan, Minnesota Duck Action Plan, and Managing Minnesota Shallow Lakes for Waterfowl and Wildlife Plan call for the active management of shallow lakes and the restoration/management of wetlands to Minnesota’s landscape.

## Outcomes

### 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. DNR Area Wildlife staff and/or Wetland Habitat Team members will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.*

### 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. DNR Area Wildlife staff and/or Wetland Habitat Team members 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. DNR Area Wildlife staff and/or Wetland Habitat Team members will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.*

### What other dedicated funds may collaborate with or contribute to this proposal?

N/A

### 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.

This request is an acceleration of the Minnesota DNR's Section of Wildlife wetland habitat work to a level not attainable but for the appropriation.

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

Qualified engineers and staff will oversee replacement/renovation of infrastructure to achieve long-lasting results. A typical goal is to have water control structures, dikes and fish barriers last a minimum of 30-40 years. The management of completed infrastructure projects will fall on existing staff of the Department of Natural Resources. Enhancement work implemented by this staff 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 and Pittman-Robertson funds. Wetland enhancement projects such as cattail control, prescribed burns, invasive fish management and the like are implemented to achieve quality, long-lasting habitat benefits, but the benefit lifespan may be variable due to conditions imposed by climate, physical factors, etc. Monitoring by area wildlife staff, wetland management specialists, and shallow lakes specialists will ensure that follow-up management is employed as needed.

### Actions to Maintain Project Outcomes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Source of Funds** | **Step 1** | **Step 2** | **Step 3** |
| 10-12 months post-completion of engineered | DNR | Qualified engineers conduct warranty inspection of project. | - | - |
| 1 year post-implementation of management action | DNR | Wetland Management Program, Shallow Lakes Program, and Area Wildlife staff evaluate management effectiveness. | - | - |

### Provide an assessment of how your program may celebrate cultural diversity or reach diverse communities in Minnesota, including reaching low- and moderate-income households:

Actions that have the following specific ties to BIPOC and diverse communities include wild rice seeding which has tribal support to re-establish culturally valuable wild rice. A potential partnership regarding this effort is being discussed.DNR’s OHF projects aim to serve all Minnesotans. At the same time, we are bringing more focus in all our work to BIPOC and diverse communities. The Minnesota DNR has adopted advancing diversity, equity and inclusion (DEI) as a key priority in its 2020-22 strategic plan. The plan focuses on increasing the cultural competence of our staff, creating a workforce that is reflective of Minnesota, continuing to strengthen tribal consultation and building partnerships with diverse communities. Shallow lake and wetland habitat projects provide ecosystem services like clean water and carbon sequestration that support environmental justice. OHF also supports public access and recreational opportunities on these lands. OHF projects and outcomes benefit BIPOC and diverse communities through recreational opportunities that are close-to-home, culturally responsive and accessible to Minnesotans with disabilities. The DNR has diversity, equity and inclusion strategies that benefit all OHF projects:• Multilingual and culturally specific hunting and fishing education programs take place on public lands. • All hiring is equal opportunity, affirmative action, and veteran-friendly. Contracting seeks out Targeted Group, Economically Disadvantaged and Veteran-Owned businesses. • Public engagement seeks out BIPOC voices and involves diverse communities. Outreach and marketing of projects has this focus as well. • Partnerships are at the center of all projects. Tribes in particular are consulted in all pertinent areas of the DNR’s work, under EO 19-24.

## Activity Details

### Requirements

**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 or on lands to be acquired in this program?**Yes

**Where does the activity take place?**

WMA

Permanently Protected Conservation Easements

County/Municipal

State Forests

Public Waters

### Land Use

**Will there be planting of any crop on OHF land purchased or restored in this program, either by the proposer or the end owner of the property, outside of the initial restoration of the land?**No

**Will insecticides or fungicides (including neonicotinoid and fungicide treated seed) be used within any activities of this proposal either in the process of restoration or use as food plots?**No

### Other OHF Appropriation Awards

**Have you received OHF dollars through LSOHC in the past?**Yes

**Are any of these past appropriations still OPEN?**Yes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Approp Year** | **Funding Amount Received** | **Amount Spent to Date** | **Funding Remaining** | **% Spent to Date** |
| 2024 | $3,136,000 | $93,100 | $3,042,900 | 2.97% |
| 2023 | $3,695,000 | $1,372,800 | $2,322,200 | 37.15% |
| 2022 | $2,301,000 | $1,069,600 | $1,231,400 | 46.48% |
| 2021 | $2,589,000 | $1,689,300 | $899,700 | 65.25% |
| 2020 | $1,676,000 | $1,086,300 | $589,700 | 64.82% |
| 2019 | $845,000 | $373,500 | $471,500 | 44.2% |
| Totals | $14,242,000 | $5,684,600 | $8,557,400 | 39.91% |

## Timeline

|  |  |
| --- | --- |
| **Activity Name** | **Estimated Completion Date** |
| Survey and engineer projects | December 2030 |
| Infrastructure Construction Projects | June 2031 |
| Cattail Management / Wild Rice Seeding Actions | September 2029 |
| Wetland Restorations | June 2031 |

## Budget

### Totals

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Funding Request** | **Total Leverage** | **Leverage Source** | **Total** |
| Personnel | $2,242,000 | - | - | $2,242,000 |
| Contracts | $15,688,000 | - | - | $15,688,000 |
| Fee Acquisition w/ PILT | - | - | - | - |
| Fee Acquisition w/o PILT | - | - | - | - |
| Easement Acquisition | - | - | - | - |
| Easement Stewardship | - | - | - | - |
| Travel | $306,000 | - | - | $306,000 |
| Professional Services | $3,998,000 | - | - | $3,998,000 |
| Direct Support Services | $437,000 | - | - | $437,000 |
| DNR Land Acquisition Costs | - | - | - | - |
| Capital Equipment | $76,000 | - | - | $76,000 |
| Other Equipment/Tools | $65,000 | - | - | $65,000 |
| Supplies/Materials | $527,500 | - | - | $527,500 |
| DNR IDP | - | - | - | - |
| **Grand Total** | **$23,339,500** | **-** | **-** | **$23,339,500** |

### Personnel

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Position** | **Annual FTE** | **Years Working** | **Funding Request** | **Total Leverage** | **Leverage Source** | **Total** |
| Wetland Management Program Supervisor, Wetland Management Specialists to evaluate and initiate enhancement and restoration | 3.0 | 1.0 | $392,000 | - | - | $392,000 |
| State Wetland Project Consultant, Shallow Lake and Wetland Management Specialists, plus 2 Temporary Technicians to evaluate and initiate enhancement and restoration | 7.6 | 2.0 | $1,850,000 | - | - | $1,850,000 |

### Capital Equipment

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Funding Request** | **Total Leverage** | **Leverage Source** | **Total** |
| Trimble GPS Survey Unit and an ATV, tracks, and trailer | $76,000 | - | - | $76,000 |

**Amount of Request:** $23,339,500 **Amount of Leverage:** - **Leverage as a percent of the Request:** 0.0% **DSS + Personnel:** $2,679,000 **As a % of the total request:** 11.48% **Easement Stewardship:** - **As a % of the Easement Acquisition:** -

**Does this proposal have the ability to be scalable?**Yes

### If the project received 50% of the requested funding

**Describe how the scaling would affect acres/activities and if not proportionately reduced, why?**A reduced funding amount would be addressed by using Program and Regional Wildlife staff to prioritize projects based on need, strategic importance, and efficiency. Acres and activities may not be proportionally affected due to the variety of project sizes and costs.

**Describe how personnel and DSS expenses would be adjusted and if not proportionately reduced, why?**Personnel and Travel costs shown in the Budget Table accurately reflect costs to support two years of critical habitat staff. Personnel and Travel costs could be cut by 50% to fund only one year of staff, but the full two years of these costs are requested to maintain dedicated staff.

### If the project received 30% of the requested funding

**Describe how the scaling would affect acres/activities and if not proportionately reduced, why?**A reduced funding amount would be addressed by using Program and Regional Wildlife staff to prioritize projects based on need, strategic importance, and efficiency. Acres and activities may not be proportionally affected due to the variety of project sizes and costs.

**Describe how personnel and DSS expenses would be adjusted and if not proportionately reduced, why?**Personnel and Travel costs shown in the Budget Table accurately reflect costs to support two years of critical habitat staff. Cutting Personnel and Travel costs to 30% would be inadequate to maintain dedicated staff needed to perform critical wetland habitat work.

### 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?**Ten Wetland Habitat Team positions would be funded by this request. All ten positions were created using past OHF appropriations that were requested in programmatic OHF requests that included both funding for staff and funding for a variety of wetland habitat projects. It is desirable to fund the staff component in a stand-alone OHF appropriation separate from the wetland habitat projects to reduce the complexity of proposals, make the staffing component more transparent, and continue the value wetland habitat that would not otherwise be done. In fortuitous timing, 8 of the 10 positions have OHF funding that expires at the end of FY26 and the 2 remaining positions have only one year of remaining funds that would expire in FY27. Two field-season technicians are a part of the requested funding and are in addition to the ten wetland habitat team positions.

### Contracts

**What is included in the contracts line?**Contract funding will be used to obtain needed construction, engineering, and/or management actions to construct shallow lake and wetland infrastructure projects or to implement wetland management activities.

### Professional Services

**What is included in the Professional Services line?**

Design/Engineering

Other : In addition to the above items, professional services may include permitting expenses and costs associated with the DNR helicopter and pilot who are part of aerial cattail spraying.

Surveys

### Travel

**Does the amount in the travel line include equipment/vehicle rental?**No

**Explain the amount in the travel line outside of traditional travel costs of mileage, food, and lodging**$306,000 is shown in the Travel line of the budget and will be used traditional travel costs of mileage, food, and lodging. This cost is based on past expenditures.

**I understand and agree that lodging, meals, and mileage must comply with the current MMB Commissioner Plan:**Yes

### Direct Support Services

**How did you determine which portions of the Direct Support Services of your shared support services is direct to this program?**Direct Support Services is determined by a standard DNR process taking into account the amount of funding and the number of allocations made with that funding.

### Other Equipment/Tools

**Give examples of the types of Equipment and Tools that will be purchased?**Equipment and tools would be typical tools used by someone working in wetland environments to develop projects and could include waders, canoe, flagging, personal protective equipment (PPE), small tools, etc.

## Federal Funds

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

**Are the funds confirmed?**No

**What is the approximate date you anticipate receiving confirmation of the federal funds?**Unknown, but previously implemented OHF projects have incorporated funding from federal sources such as NAWCA, Inflation Reduction Act, Joint Venture, and others. involved

## Output Tables

### Acres by Resource Type (Table 1)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type** | **Wetland** | **Prairie** | **Forest** | **Habitat** | **Total Acres** |
| Restore | 1,437 | 0 | 0 | 0 | 1,437 |
| 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 | 9,947 | 0 | 0 | 0 | 9,947 |
| **Total** | **11,384** | **0** | **0** | **0** | **11,384** |

### Restoration/Enhancement Acres Breakdown of Existing Protected Lands (Table 1a.2)

|  | **RESTORE** |  | **ENHANCE** |  |
| --- | --- | --- | --- | --- |
|  | **Lands acquired with OHF** | **Lands NOT acquired with OHF** | **Lands acquired with OHF** | **Lands NOT acquired with OHF** |
| DNR Lands (WMA, State Forests, etc) | 718 | 719 | 4,973 | 4,974 |
| Non-DNR Lands (city, state, federal, etc.) | - | - | - | - |
| Easements | - | - | - | - |
| **Total** | **718** | **719** | **4,973** | **4,974** |

### Total Requested Funding by Resource Type (Table 2)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type** | **Wetland** | **Prairie** | **Forest** | **Habitat** | **Total Funding** |
| Restore | $14,705,100 | - | - | - | $14,705,100 |
| Protect in Fee with State PILT Liability | - | - | - | - | - |
| Protect in Fee w/o State PILT Liability | - | - | - | - | - |
| Protect in Easement | - | - | - | - | - |
| Enhance | $8,634,400 | - | - | - | $8,634,400 |
| **Total** | **$23,339,500** | **-** | **-** | **-** | **$23,339,500** |

### Acres within each Ecological Section (Table 3)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Type** | **Metro/Urban** | **Forest/Prairie** | **SE Forest** | **Prairie** | **N. Forest** | **Total Acres** |
| Restore | 0 | 145 | 0 | 1,292 | - | 1,437 |
| 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 | 0 | 3,335 | 0 | 5,459 | 1,153 | 9,947 |
| **Total** | **0** | **3,480** | **0** | **6,751** | **1,153** | **11,384** |

### Total Requested Funding within each Ecological Section (Table 4)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Type** | **Metro/Urban** | **Forest/Prairie** | **SE Forest** | **Prairie** | **N. Forest** | **Total Funding** |
| Restore | - | $1,015,400 | - | $13,689,700 | - | $14,705,100 |
| Protect in Fee with State PILT Liability | - | - | - | - | - | - |
| Protect in Fee w/o State PILT Liability | - | - | - | - | - | - |
| Protect in Easement | - | - | - | - | - | - |
| Enhance | - | $1,760,300 | - | $4,925,100 | $1,949,000 | $8,634,400 |
| **Total** | **-** | **$2,775,700** | **-** | **$18,614,800** | **$1,949,000** | **$23,339,500** |

### Average Cost per Acre by Resource Type (Table 5)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type** | **Wetland** | **Prairie** | **Forest** | **Habitat** |
| Restore | $10,233 | - | - | - |
| Protect in Fee with State PILT Liability | - | - | - | - |
| Protect in Fee w/o State PILT Liability | - | - | - | - |
| Protect in Easement | - | - | - | - |
| Enhance | $868 | - | - | - |

### Average Cost per Acre by Ecological Section (Table 6)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type** | **Metro/Urban** | **Forest/Prairie** | **SE Forest** | **Prairie** | **N. Forest** |
| Restore | - | $7,002 | - | $10,595 | - |
| Protect in Fee with State PILT Liability | - | - | - | - | - |
| Protect in Fee w/o State PILT Liability | - | - | - | - | - |
| Protect in Easement | - | - | - | - | - |
| Enhance | - | $527 | - | $902 | $1,690 |

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

## Parcels

**Sign-up Criteria?**[Yes - Sign up criteria is attached](https://lsohcprojectmgmt.leg.mn/media/lsohc/proposal/signup_criteria/6258f1b6-951.docx)

**Explain the process used to identify, prioritize, and select the parcels on your list:**Proposals for individual projects are submitted by DNR Area Wildlife Staff and Wetland Habitat Team members into a statewide database. Projects are reviewed at the regional and central office levels and appropriate projects are selected for inclusion in this OHF proposal. The parcel list may be modified by the program manager as needed and the Final Report will reflect an accurate and complete parcel list.

 In addition to the projects shown on the parcel list, additional projects will be selected for aerial cattail spraying using the attached "Guidelines Aerial Cattail Spraying.docx." The Final Report will accurately show all parcels.

### Restore / Enhance Parcels

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **County** | **TRDS** | **Acres** | **Est Cost** | **Existing Protection** | **Description** |
| Grayling WCS replacement | Aitkin | 04823210 | 500 | $150,000 | Yes | Replace failed WCS |
| Swamp Lake wild rice seeding | Aitkin | 04625226 | 276 | $62,500 | Yes | Seed wild rice |
| Bull Moose Water Control Structure Replacement | Cass | 13831223 | 80 | $450,000 | Yes | Replace failed WCS |
| Restoration Grace Marshes WMA | Chippewa | 11939228 | 38 | $705,000 | Yes | Restoring a wetland that is being drained by a township road culvert |
| Restoration LQP WMA Churchill Unit | Chippewa | 11842203 | 24 | $361,000 | Yes | Restoring wetland basins |
| Cromwell WMA | Clay | 14045201 | 7 | $100,000 | Yes | Repair a berm, remove culvert, add rock spillway |
| Restoration Pats Pasture WMA | Cottonwood | 10537229 | 33 | $180,000 | Yes | Tile breaks, sediment removal, berms |
| Restoration Talcot WMA Tract 31 | Cottonwood | 10538219 | 10 | $200,000 | Yes | Tile break, sediment removal, berms, woody removal |
| Roger M. Holmes WMA Wetland Restoration | Douglas | 12936211 | 50 | $375,000 | Yes | Sediment removal, plug ditches |
| Enhancement Summers WMA | Jackson | 10236217 | 9 | $90,000 | Yes | Wetland enhancement |
| Restoration Hamlin WMA | Lac qui Parle | 11744228 | 14 | $185,000 | Yes | Restore 5 basins |
| Restoration Haydenville WMA | Lac qui Parle | 11845233 | 17 | $319,000 | Yes | Restore 10 wetland basins |
| Restoration Hopeful WMA | Lincoln | 10944212 | 117 | $1,515,000 | Yes | Restore 29+ wetland basins |
| Tyler WMA North Swan WCS replacement | Lincoln | 10944204 | 88 | $335,000 | Yes | Replace WCS |
| Restoration Meadow Creek WMA | Lyon | 11141236 | 71 | $683,250 | Yes | Tile breaks |
| Restoration Meadow Creek WMA | Lyon | 11141236 | 72 | $902,000 | Yes | Tile break, sediment removal, berms, woody removal |
| Restoration Rolling Hills WMA | Lyon | 11140206 | 38 | $476,000 | Yes | Tile break, sediment removal, berms, woody removal |
| Restoration Provencher WMA | Meeker | 11831226 | 5 | $94,500 | Yes | Remove sediment, place berms |
| Restoration Rodewald WMA | Meeker | 11833218 | 25 | $377,500 | Yes | Restore 18 wetland basins |
| Mille Lacs - Groundhouse WCS | Mille Lacs | 03926213 | 235 | $525,000 | Yes | Replace three WCS |
| Enhancement Ellsborough WMA | Murray | 10843214 | 16 | $124,750 | Yes | Cattail mgmt, woody removal, dike repair |
| Irruption WMA Water Control Replacement | Murray | 10639220 | 41 | $313,000 | Yes | Replace WCS |
| Long Lake WCS | Murray | 10841204 | 188 | $500,000 | Yes | Recent WMA purchase needs berm repair and replace culvert with rock spillway |
| Restoration & Impoundment Peters WMA | Murray | 10642209 | 71 | $783,000 | Yes | Tile break |
| Restoration Budolfson WMA | Murray | 10739225 | 17 | $347,000 | Yes | Tile break, sediment removal, berms, woody removal |
| Fergus Falls WMA | Otter Tail | 13343222 | 20 | $240,000 | Yes | Sediment remova, tile break, berms. |
| Orwell WMA Moist Soil Unit | Otter Tail | 13244235 | 20 | $125,000 | Yes | Replace failed WCS |
| White Bear Wetland Restoration | Pope | 12539204 | 42 | $93,000 | Yes | Remove sediment, place berms |
| Marcoux WMA Dike and WCS Rehab | Red Lake | 15043219 | 85 | $310,000 | Yes | Fix failed dike by installing notched sheetpile and Texas crossing |
| Phylis Voosen WMA Wetland Restoration | Redwood | 11238219 | 15 | $250,000 | Yes | Alter tile system, contruct berm, add WCS |
| Great Scott WMA Water Control Structure Replacement | St. Louis | 05819233 | 36 | $475,000 | Yes | Replace failed WCS |
| Discovery WMA Wetland | Stearns | 12330217 | 45 | $250,000 | Yes | Restore 4 basins, install WCS, ditch plugs |
| Dolven WMA Wetland Restoration | Stevens | 12541219 | 13 | $90,000 | Yes | Sediment removal, ditch plugs |
| Eldorado WMA Wetland Restoration | Stevens | 12644213 | 100 | $125,000 | Yes | Sediment removal, ditch plugs |
| Enhancement Alberta WMA | Stevens | 12443233 | 23 | $15,000 | Yes | Remove drain tile |
| Danvers WMA WCS Replacement | Swift | 12140205 | 900 | $437,000 | Yes | Replace failed WCS |
| Restoration LQP Anderson Unit | Swift | 12043228 | 22 | $268,000 | Yes | Restoring up to 6 wetland basins |
| Restoration LQP WMA Bahl Unit | Swift | 12043228 | 28 | $350,000 | Yes | Tile break, sediment removal, berms, woody removal |
| Restoration LQP WMA Engebriston Unit | Swift | 12043228 | 131 | $1,665,000 | Yes | Tile break, sediment removal, berms, woody removal |
| Ruff-Nik Paycer Pool WCS Replacement | Todd | 13132225 | 26 | $250,000 | Yes | Replace failed WCS |
| Staples Dike Rehabilitation Phase 3 Construction | Todd | 13333225 | 600 | $793,000 | Yes | Dike has failed and needs to be reshaped and sheetpile installed. |
| West Union WMA Complex | Todd | 12735209 | 200 | $1,750,000 | Yes | Sediment removal, ditch plugs |
| Restoration Teardrop WMA | Yellow Medicine | 11544201 | 19 | $360,000 | Yes | Reroute and break tiles |

### Other Parcels

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **County** | **TRDS** | **Acres** | **Est Cost** | **Existing Protection** |
| Lake Hanska Dam Feasibility - engineering | Brown | 10831233 | 0 | $150,000 | Yes |
| Bossuyt WCS replacement, engineering | Lincoln | 11245204 | 0 | $60,000 | Yes |

## Parcel Map



