

# Lessard-Sams Outdoor Heritage Council

## Fiscal Year 2019 / ML 2018 Request for Funding



**Date:** May 31, 2017

**Program or Project Title:** Laurentian Forest - St. Louis County Habitat Project, Phase II

**Funds Requested:** \$6,106,000

**Manager's Name:** Emilee Nelson

**Organization:** The Conservation Fund

**Address:** 7101 York Avenue South Suite 340

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**County Locations:** Not Listed

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

- Northern Forest

**Activity types:**

- Protect in Fee

**Priority resources addressed by activity:**

- Forest

### Abstract:

St. Louis County and The Conservation Fund (TCF) will work cooperatively to protect in fee approximately 5,000 acres of forest habitat at risk of being converted to uses that would degrade critical habitat for wildlife in Minnesota's northeast forest landscape. Targeted parcels will be those that are vital to maintaining large, unfragmented blocks of forest that deliver the greatest habitat benefits. Adjacency to county, state and federal lands will be a key focus in leveraging the habitat benefits provided by project parcels.

### Design and scope of work:

Problem to be addressed

Northern Minnesota's forest-dominated landscape provides important wildlife habitat, clean water, public recreational opportunities and economic value from its timber. It includes many large, privately owned parcels that are interspersed with millions of acres of county, state, federal and tribal forest lands. These privately owned parcels total more than one million acres of which most are held by large corporations. The past two decades have seen significant restructuring in the timber industry that has changed the northern forest and put habitat and public access at risk. More than 500,000 acres of industrial forest lands have changed ownership. Much of this land has been sold and converted into smaller parcels. The Minnesota Forest Resources Council has identified parcelization as the major policy problem confronting the ecological and economic health of Minnesota's forests. Forest conversion and fragmentation are two major physical alterations to the forest that can result from parcelization. In and near the focus area of this project, this parcelization trend continues. For example, the Potlatch Corporation (Potlatch) once owned 345,000 acres in the northern forest and now holds only 160,000 acres. In St. Louis County, Potlatch ownership has dropped from 110,000 acres to 70,000 acres in the past 10 years. This divestiture continues as Potlatch has sold, or is in the process of selling, over 175 parcels in St. Louis County since 2013. Much like the prairies half a century ago, Minnesota's most intact ecosystem is now facing imminent conversion and fragmentation. Unless action is taken soon, the opportunity to protect and manage large expanses of forest habitat will be lost.

Goals and Scope of Work

To mitigate forest conversion and fragmentation and the associated loss of habitat within St. Louis County, this project will protect by acquisition in fee approximately 5,000 acres of high priority habitat. This project will complement previously-funded OHF proposals to rejoin forest habitats for cohesive management strategies. All of the lands to be protected are currently owned by Potlatch. TCF and St.

Louis County have worked with Potlatch to review all of the company's holdings within the county to determine which parcels best fulfill project goals.

TCF, in coordination with St. Louis County, will use the following criteria to prioritize parcels:

- 1) Habitat quality;
- 2) Adjacency to other large forest blocks, with an emphasis on lands managed by St. Louis County;
- 3) Immediacy of threat of conversion; and
- 4) Potential to acquire parcels where mineral rights have not been severed. As will be discussed in greater detail below, St. Louis County will hold and manage all project lands.

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

- H3 Improve connectivity and access to recreation
- LU8 Protect large blocks of forest land

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

- Minnesota Forest Resource Council Landscape Plans
- Outdoor Heritage Fund: A 25 Year Framework

### **Describe how your program will advance the indicators identified in the plans selected:**

This project will address multiple indicators in the above plans. The MN Forest Resource Council calls for implementers of Landscape Plans to maintain or increase large contiguous forest patches which provide habitat for numerous native game and non-game wildlife species, as well as a no net loss of forestlands. The OHF 25-year Framework also seeks to protect forestland through acquisition or easement to prevent parcelization and fragmentation and to provide the ability to access and manage landlocked public properties. This project will work toward both of these goals.

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

#### **Northern Forest:**

- Provide access to manage habitat on landlocked public properties or protect forest land from parcelization and fragmentation through fee acquisition, conservation or access easement

### **Describe how your program will produce and demonstrate a significant and permanent conservation legacy and/or outcomes for fish, game, and wildlife as indicated in the LSOHC priorities:**

This project concentrates on protecting those strategically important privately-held lands that connect other large blocks of publically owned forestlands. As smaller blocks of habitat have already been sold for private recreational use, the need to protect the larger blocks of habitat that directly border existing forestland is a direct priority listed for the LSOHC Northern Forest Section. Secondly, this project will allow greater public access for wildlife and outdoors-related recreation to nearby Duluth and the 200,000 people residing in St. Louis County.

In addition to game species such as white-tailed deer, Ruffed Grouse, woodcock and black bear, the project area contains numerous songbirds and species that are endangered, threatened, or of special concern including moose, gray wolf, Canadian lynx, Bald Eagle, Boreal Owl, Northern Goshawk, northern long-eared bat, Golden-winged Warbler, big brown bat, tricolored bat, Red-shouldered Hawk, and Peregrine Falcon. The parcels selected for this project will help to retain intact forest landscapes that will benefit all of these species.

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

The methods for choosing which parcels to protect with this project that will reduce fragmentation of Minnesota's northern forests will be done through a mapping algorithm that follows these steps:

1. Identify high quality Potlatch forestland that is important habitat for forest species such as the Golden-winged warbler, Ovenbird, Ruffed Grouse, and northern long-eared bat. Data used will come from the Minnesota Biological Survey, The Nature Conservancy (TNC), USFWS and other pertinent sources.
2. Identify St. Louis County-managed lands greater than 120 contiguous acres in size that contain high quality habitat or habitat that can be cost-effectively restored.
3. Select the Potlatch lands that are also directly adjacent to county managed lands greater than 120-acres, meet the habitat filters from

the first criteria and/or are critical to connect contiguous existing protected parcels greater than 200 acres in size.  
 4. Of those acres, prioritize Potlatch lands that are also directly adjacent to State Forest, US Forest Service, or MN DNR ownership.

This methodology will assist in developing large, contiguous blocks of high-quality habitat that can be managed sustainably.

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

Minnesota Biological Survey (MBS) work in St. Louis County is only partially completed and is continuing. MBS hopes to have at least 90% of the survey work completed by June 2019. Project partners and SLC Lands will work with DNR ecologists and MCBS staff to obtain the best possible and most current information on the distribution and ecology of native plants and animals, native plant communities and the most intact landscapes when evaluating which parcels will be selected for inclusion in the project.

GIS modeling analysis supplied by the USFWS, TNC, USFS and others will be used by TCF and that incorporates multiple criteria to identify the highest priority Potlatch parcels to include in the project.

**Identify indicator species and associated quantities this habitat will typically support:**

**Ovenbird**

Ovenbirds are found in upland forests statewide; typically in relatively mature forest but can also be found in younger forests. Deciduous, mixed coniferous-deciduous, and coniferous forests may be suitable. Ovenbirds nest on the ground in leaf litter. This species has been identified as a priority species to monitor, as an indication of the health of mature forest uplands, within the area represented by the LSOHC Northern Forest planning section. While territories vary in size and may overlap, an average of 10 pairs for every 10 hectares may be translated to roughly 16 pairs for every 40 acres. TCF will use the breeding bird survey data to target acquisitions.

**Golden-winged Warbler**

This species is currently a candidate for listing as federally threatened. Its presence indicates that there is a broad age-class distribution of native northern tree species and critical brushy habitat that benefits not only the warbler, but also Ruffed Grouse. The American Bird Conservancy and the USFWS are actively monitoring Golden-winged Warbler populations and TCF will use their information to target acquisitions.

**Outcomes:**

**Programs in the northern forest region:**

- Increased availability and improved condition of riparian forests and other habitat corridors *GIS prioritization algorithm identifies project parcels that align with existing protected forest habitat to maximize project benefits and create habitat corridors.*

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

As indicated above, St. Louis County Lands will manage the acquired lands and has a wealth of forest management experience as it manages nearly 900,000 acres of County Administered land, its management system is certified to the ISO 14001 standard, and its practices are certified to the Sustainable Forestry Initiative (SFI) standard. The purpose of SLC Lands is to protect the variety of benefits provided by County Administered lands. These benefits include: healthy forests, wildlife habitat and fisheries, accessible recreational opportunities, forest diversity, forest products, and financial returns which all contribute to local community viability. Project partners will continue to work with SLC Lands to ensure the best habitat outcomes and evaluate the possibility of developing future projects.

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

| Year             | Source of Funds  | Step 1  | Step 2 | Step 3 |
|------------------|------------------|---|--------|--------|
| 2018 and ongoing | St. Louis County | Manage and monitor lands consistent with forest certification and management plans. |        |        |

**What is the degree of timing/opportunistic urgency and why it is necessary to spend public money for this work as soon as possible:**

Potlatch has been rapidly divesting its forest holdings for a number of years. In less than 20 years, 43% of its statewide ownership has

been sold - nearly 195,000 acres. In St. Louis County alone, Potlatch ownership has diminished from approximately 110,000 acres to 70,000 acres in the past 10 years. When isolated forest parcels are sold for development, the forest is not only being fragmented, but there is also a demand for new services (roads, power, etc.) that has a detrimental effect on habitat. It can easily be argued that the land owned by Potlatch, more than the prairies where land use conversion has already largely occurred, is the most threatened in the state.

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

This project builds on past and current efforts to protect the large remaining forestlands in St. Louis County. The lands in this proposal will continue to build on past investments in Minnesota's forests.

**Relationship to other funds:**

- Not Listed

**Describe the relationship of the funds:**

Not Listed

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

| Appropriation Year | Source                              | Amount        |
|--------------------|-------------------------------------|---------------|
| 2016               | Sax-Zim Bog Wetland Mitigation Bank | \$15,000,000+ |
| 2016               | Private donor                       | 380,000       |
| 2017               | LWCF                                | 3,500,000     |
| 2017               | USFWS Mitigation                    | 2,000,000     |

**Activity Details**

**Requirements:**

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

Will local government approval be sought prior to acquisition - **Yes**

Is the land you plan to acquire free of any other permanent protection - **Yes**

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

**Land Use:**

Will there be planting of corn or 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**

No variation.

Are there currently trails or roads on any of the acquisitions on the parcel list - **Yes**

Describe the types of trails or roads and the allowable uses:

There are existing routes on potential project parcels that were developed for timber harvest and management purposes. In addition to forestry related activities, these routes have been used by hunters and others for recreation, and some of that use has included ATV travel.

Will the trails or roads remain and uses continue to be allowed after OHF acquisition - **Yes**

How will maintenance and monitoring be accomplished:

SLC Lands will maintain and monitor these trails and roads under its forest certification standards.

Will new trails or roads be developed or improved as a result of the OHF acquisition - **Yes**

Describe the types of trails or roads and the allowable uses:

There are existing routes on potential project parcels that were developed for timber harvest and management purposes. In addition to forestry related activities, these routes have been used by hunters and others for recreation, and some of that use has included ATV travel.

How will maintenance and monitoring be accomplished:

SLC Lands will maintain and monitor these trails and roads under its forest certification standards.

## Accomplishment Timeline

| Activity  | Approximate Date Completed |
|---|----------------------------|
| Negotiate with landowner and enter into a purchase agreement.                         | August 2018                |
| Conduct due diligence for acquisition of the properties (appraisals, title work etc). | September 2018             |
| Acquire fee title to the properties.  | December 2018              |
| Transfer lands to St. Louis County.   | December 2018              |

# Budget Spreadsheet

**Total Amount of Request: \$6,106,000**

## Budget and Cash Leverage

| BudgetName                 | LSOHC Request | Anticipated Leverage | Leverage Source | Total       |
|----------------------------|---------------|----------------------|-----------------|-------------|
| Personnel                  | \$63,000      | \$0                  |                 | \$63,000    |
| Contracts                  | \$0           | \$0                  |                 | \$0         |
| Fee Acquisition w/ PILT    | \$0           | \$0                  |                 | \$0         |
| Fee Acquisition w/o PILT   | \$6,000,000   | \$0                  |                 | \$6,000,000 |
| Easement Acquisition       | \$0           | \$0                  |                 | \$0         |
| Easement Stewardship       | \$0           | \$0                  |                 | \$0         |
| Travel                     | \$2,000       | \$0                  |                 | \$2,000     |
| Professional Services      | \$30,000      | \$0                  |                 | \$30,000    |
| Direct Support Services    | \$6,000       | \$0                  |                 | \$6,000     |
| DNR Land Acquisition Costs | \$5,000       | \$0                  |                 | \$5,000     |
| Capital Equipment          | \$0           | \$0                  |                 | \$0         |
| Other Equipment/Tools      | \$0           | \$0                  |                 | \$0         |
| Supplies/Materials         | \$0           | \$0                  |                 | \$0         |
| DNR IDP                    | \$0           | \$0                  |                 | \$0         |
| Total                      | \$6,106,000   | \$0                  |                 | \$6,106,000 |

## Personnel

| Position                           | FTE  | Over # of years | LSOHC Request | Anticipated Leverage | Leverage Source | Total    |
|------------------------------------|------|-----------------|---------------|----------------------|-----------------|----------|
| MN State Director                  | 0.20 | 2.00            | \$38,000      | \$0                  |                 | \$38,000 |
| Conservation Acquisition Associate | 0.20 | 2.00            | \$25,000      | \$0                  |                 | \$25,000 |
| Total                              | 0.40 | 4.00            | \$63,000      | \$0                  |                 | \$63,000 |

Amount of Request: \$6,106,000  
 Amount of Leverage: \$0  
 Leverage as a percent of the Request: 0.00%  
 DSS + Personnel: \$69,000  
 As a % of the total request: 1.13%  
 Easement Stewardship: \$0  
 As a % of the Easement Acquisition: -%

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

Our real estate support staff keeps hourly time sheets to track direct time spent on projects by grant source. We have used those past metrics to estimate the costs for this grant.

**Does the amount in the travel line include equipment/vehicle rental? - Yes**

**Explain the amount in the travel line outside of traditional travel costs of mileage, food, and lodging:**

None.

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

This project leverages multiple past and current projects in St. Louis County to protect large blocks of forestlands.

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

**Tell us how this project would be scaled and how administrative costs are affected, describe the “economy of scale” and how outputs would change with reduced funding, if applicable:**

The total fee acquisition w/out PILT could be scaled and acres reduced. Our administrative costs could not be scaled as they are baseline costs for procurement of the land.



## 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        | 5,000  | 0        | 5,000 |
| Protect in Easement                      | 0        | 0        | 0      | 0        | 0     |
| Enhance                                  | 0        | 0        | 0      | 0        | 0     |
| Total                                    | 0        | 0        | 5,000  | 0        | 5,000 |

**Table 2. Total Requested 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      | \$6,106,000 | \$0      | \$6,106,000 |
| Protect in Easement                      | \$0      | \$0      | \$0         | \$0      | \$0         |
| Enhance                                  | \$0      | \$0      | \$0         | \$0      | \$0         |
| Total                                    | \$0      | \$0      | \$6,106,000 | \$0      | \$6,106,000 |

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

| Type                                     | Metro/Urban | Forest/Prairie | SE Forest | Prairie | Northern 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       | 5,000           | 5,000 |
| Protect in Easement                      | 0           | 0              | 0         | 0       | 0               | 0     |
| Enhance                                  | 0           | 0              | 0         | 0       | 0               | 0     |
| Total                                    | 0           | 0              | 0         | 0       | 5,000           | 5,000 |

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

| Type                                     | Metro/Urban | Forest/Prairie | SE Forest | Prairie | Northern 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     | \$6,106,000     | \$6,106,000 |
| Protect in Easement                      | \$0         | \$0            | \$0       | \$0     | \$0             | \$0         |
| Enhance                                  | \$0         | \$0            | \$0       | \$0     | \$0             | \$0         |
| Total                                    | \$0         | \$0            | \$0       | \$0     | \$6,106,000     | \$6,106,000 |

**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      | \$1,221 | \$0      |
| Protect in Easement                      | \$0      | \$0      | \$0     | \$0      |
| Enhance                                  | \$0      | \$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     | \$1,221         |
| Protect in Easement                      | \$0         | \$0            | \$0       | \$0     | \$0             |
| Enhance                                  | \$0         | \$0            | \$0       | \$0     | \$0             |

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

0

I have read and understand Section 15 of the Constitution of the State of Minnesota, Minnesota Statute 97A.056, and the Call for Funding Request. I certify I am authorized to submit this proposal and to the best of my knowledge the information provided is true and accurate.

# Parcel List

## Explain the process used to select, rank and prioritize the parcels:

The methods for choosing which parcels to protect with this project that will reduce fragmentation of Minnesota's northern forests will be done through a mapping algorithm that follows these steps:

1. Identify high quality Potlatch forestland that is important habitat for forest species such as the Golden-winged warbler, Ovenbird, Ruffed Grouse, and northern long-eared bat. Data used will come from the Minnesota Biological Survey, TNC, USFWS and other pertinent sources.
2. Identify St. Louis County-managed lands greater than 120 contiguous acres in size that contain high quality habitat or habitat that can be cost-effectively restored.
3. Select the Potlatch lands that are also directly adjacent to county managed lands greater than 120-acres, meet the habitat filters from the first criteria and/or are critical to connect contiguous existing protected parcels greater than 200 acres in size.
4. Of those acres, prioritize Potlatch lands that are also directly adjacent to State Forest, US Forest Service, or MN DNR ownership.

This methodology will assist in developing large, contiguous blocks of high-quality habitat that can be managed sustainably.

## Section 1 - Restore / Enhance Parcel List

No parcels with an activity type restore or enhance.

## Section 2 - Protect Parcel List

No parcels with an activity type protect.

## Section 2a - Protect Parcel with Bldgs

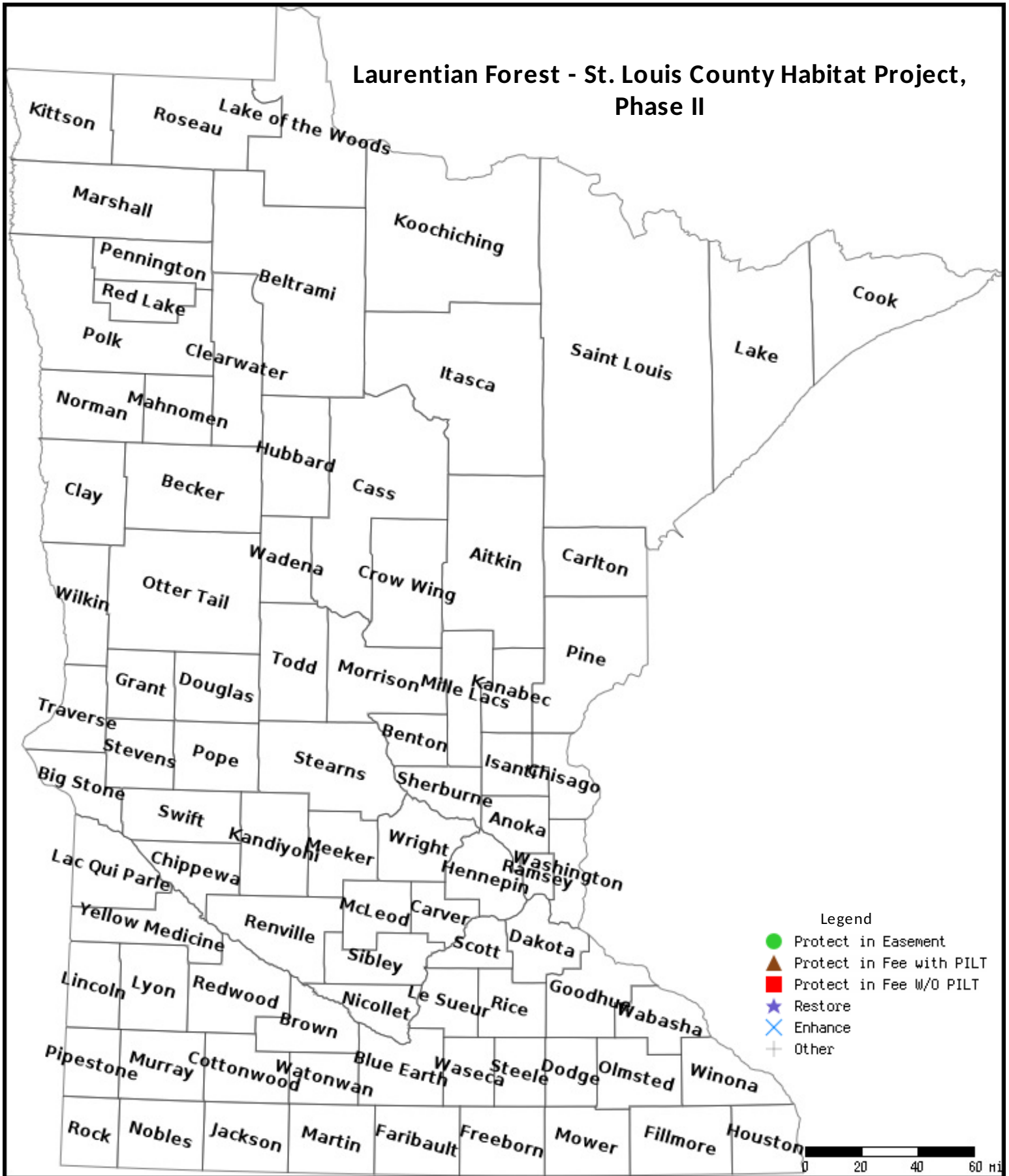
No parcels with an activity type protect and has buildings.

## Section 3 - Other Parcel Activity

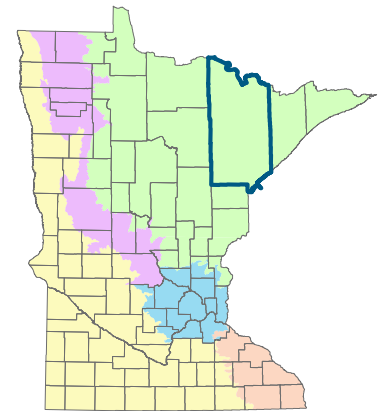
No parcels with an other activity type.

# Parcel Map

## Laurentian Forest - St. Louis County Habitat Project, Phase II



Data Generated From Parcel List



Project Area

St. Louis County and The Conservation Fund (TCF) will work cooperatively to protect in fee approximately 5,000 acres of forest habitat at risk of being converted to uses that would degrade critical habitat for wildlife in Minnesota's northeast forest landscape.

The past two decades have seen significant restructuring in the timber industry that has changed the northern forest and put habitat and public access at risk. More than 500,000 acres of industrial forest lands have changed ownership. Much of this land has been sold and converted into smaller parcels.

Potlatch has been rapidly divesting its forest holdings for a number of years. In less than 20 years, 43% of its statewide ownership has been sold - nearly 195,000 acres.

Much like the prairies half a century ago, Minnesota's most intact ecosystem is now facing imminent conversion and fragmentation. **Unless action is taken soon, the opportunity to protect and manage large expanses of forest habitat will be lost.**

This project will use the following criteria to prioritize parcels:

- 1) Habitat quality;
- 2) Adjacency to other large forest blocks, with an emphasis on lands managed by St. Louis County;
- 3) Immediacy of threat of conversion; and
- 4) Potential to acquire parcels where mineral rights have not been severed. As will be discussed in greater detail below, St. Louis County will hold and manage all project lands.

The mission of St. Louis County Lands Department is to protect the variety of benefits provided by County Administered lands, which include: healthy forests, wildlife habitat and fisheries, accessible recreational opportunities, forest diversity, forest products, and financial returns which all contribute to local community viability.

TCF will provide real estate expertise. St. Louis County will own and manage acquired parcels to dual-forestry certified standards, in addition to OHF requirements for healthy, sustainable habitat.

### Partners

The Conservation Fund  
St. Louis County

### OHF Funding Requested

\$6.1 million

### Protection Type

Fee title acquisition without PILT

### Leverage

- Builds on 40,000 acres protected over the last 5 years

### Project Outcomes

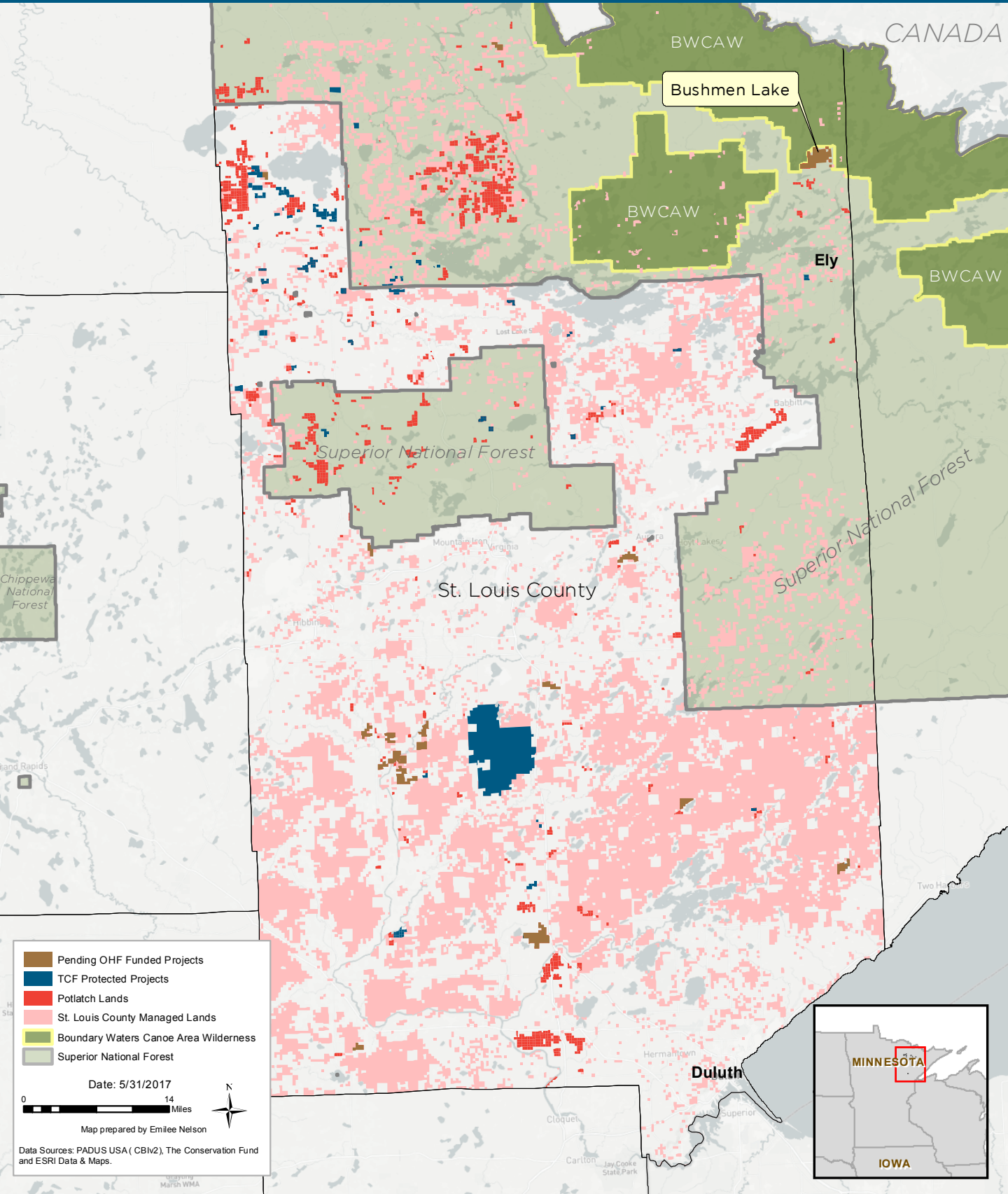
- 5,000 acres of forestlands protected
- Improved forest management access on adjacent parcels

### Partner Capacity

- St. Louis County dual-certified (ISO 14001, Sustainable Forestry Initiative)
- SLC Lands manages nearly 900,000 acres
- TCF has protected 285,000 acres in Minnesota

# St. Louis County Forestlands

THE CONSERVATION FUND



|   |   | Conservation Complex 1 |                       | Conservation Complex 2 |                       |
|---|---|------------------------|-----------------------|------------------------|-----------------------|
| Category  | Sub-category  | Acres                  | Estimated \$ (10 yrs) | Acres                  | Estimated \$ (10 yrs) |
| Permanent Protection  | <i>Fee title (productive cropland) / acre</i>             |                        | \$0                   |                        | \$0                   |
|   | <i>Fee title (marginal cropland) / acre</i>               |                        | \$0                   |                        | \$0                   |
|   | <i>Easement / acre (productive cropland)</i>              |                        |                       |                        |                       |
|   | <i>Easement / acre (marginal cropland)</i>                |                        | \$0                   |                        | \$0                   |
| <b>Totals</b>   |   | -                      | \$0                   | -                      | \$0                   |
| Temporary Protection  | <i>CRP per acre / year</i>                                |                        | \$0                   |                        | \$0                   |
|   | <i>Private Lands Agreements / acre</i>                    |                        | \$0                   |                        | \$0                   |
| <b>Totals</b>   |   | -                      | \$0                   | -                      | \$0                   |
| Restoration   | <i>Wetland / acre</i>                                     |                        | \$0                   |                        | \$0                   |
|   | <i>Upland tile / acre</i>                                 |                        | \$0                   |                        | \$0                   |
|   | <i>Grassland / acre</i>                                   | -                      | \$0                   |                        | \$0                   |
|   | <i>Stream / mile</i>                                      |                        | \$0                   |                        | \$0                   |
| <b>Totals</b>   |   | -                      | \$0                   | -                      | \$0                   |
| Enhancement   | <i>Prescribed fire / acre * 2 (every 5 yrs)</i>           |                        | \$0                   |                        | \$0                   |
|   | <i>Conservation grazing / mile</i>                        |                        | \$0                   |                        | \$0                   |
|   | <i>Haying / acre * 2 (every 5 yrs)</i>                    |                        | \$0                   |                        | \$0                   |
|   | <i>Woody removal (grove) / acre</i>                       |                        | \$0                   |                        | \$0                   |
|   | <i>Woody removal (volunteer) / acre * 2 (every 5 yrs)</i> |                        | \$0                   |                        | \$0                   |
|   | <i>Herbicide / acre (intensely infested site)</i>         |                        | \$0                   |                        | \$0                   |
|   | <i>Herbicide / acre (lightly infested site)</i>           |                        | \$0                   |                        | \$0                   |
| <b>Totals</b>   |   | -                      | \$0                   | -                      | \$0                   |
| Stewardship   | <i>Personel hours / year</i>                              |                        | \$0                   |                        | \$0                   |
|   | <i>Travel / mile (IRS rate) / year</i>                    |                        | \$0                   |                        | \$0                   |
|   | <i>Build structures/parking areas</i>                     |                        | \$0                   |                        | \$0                   |
|   | <i>PILT/acre/yr</i>                                       | -                      | \$0                   | -                      | \$0                   |
| <b>Totals</b>   |   | -                      | \$0                   | -                      | \$0                   |
| <b>TOTAL CONSERVATION COMPLEX COST</b>                                |   |                        | \$0                   |                        | \$0                   |
| <b>COST PER ACRE</b>  |   |                        | \$0.00                |                        | \$0.00                |
| Total Conservation Complex Acres                                      |   |                        |                       |                        |                       |
| Total Unprotected Acres   |   |                        |                       |                        |                       |
| Total Protected Acres   |   |                        |                       |                        |                       |
| <b>Total Cost of Conservation Complex per Conservation Indicator*</b> |   |                        |                       |                        |                       |

\* Using accepted models created by USFWS and others, we can estimate the number of duck breeding pairs, nesting grassland birds, etc, whatever model is applicable to the conservation complex. These metrics are indicators of success for the goal(s) set for each conservation complex.