



Lessard-Sams Outdoor Heritage Council

Minnesota Trout Unlimited Coldwater Fish Habitat Enhancement and Restoration, Phase 13
Laws of Minnesota 2021 Accomplishment Plan

General Information

Date: 02/20/2025

Project Title: Minnesota Trout Unlimited Coldwater Fish Habitat Enhancement and Restoration, Phase 13

Funds Recommended: \$1,033,000

Legislative Citation: ML 2021, First Sp. Session, Ch. 1, Art. 1, Sec. 2, subd. 5(j)

Appropriation Language: \$1,033,000 the first year is to the commissioner of natural resources for an agreement with Trout Unlimited to restore and enhance habitat for trout and other species in and along coldwater rivers, lakes, and streams in Minnesota. A list of proposed land restorations and enhancements must be provided as part of the required accomplishment plan.

Manager Information

Manager's Name: John Lenczewski

Title:

Organization: Minnesota Trout Unlimited

Address: P O Box 845

City: Chanhassen, MN 55317

Email: jlenczewski@comcast.net

Office Number:

Mobile Number: 612-670-1629

Fax Number:

Website: www.mntu.org

Location Information

County Location(s): Wabasha, Houston, Fillmore, Winona, Olmsted, St. Louis, Lake, Dakota, Hubbard, Pine, Goodhue and Cook.

Eco regions in which work will take place:

Northern Forest

Metro / Urban

Southeast Forest

Activity types:

Enhance

Priority resources addressed by activity:

Forest

Habitat

Narrative**Abstract**

Minnesota Trout Unlimited will enhance and restore degraded habitat for fish and wildlife in and along priority coldwater streams located on existing public lands and conservation easements. Trout streams are a relatively scarce resource. Increasing threats to them require accelerating habitat work to reduce the backlog of degraded stream reaches, improve riparian forests to improve stream flows and temperatures, and buffer streams from larger, more frequent rainfall and flood events. Outcomes will be maximized by improving the connectivity of habitat and fish and wildlife populations. Timely maintenance of old projects will ensure habitat outcomes continue for many years.

Design and Scope of Work

Only six percent of Minnesota's streams support any trout, and many have degraded habitat which severely limits their productivity. Even where riparian corridors protect streams from future harm, past habitat degradation cannot be reversed without active enhancement or restoration. Minnesota Trout Unlimited ("MNTU") will directly enhance or restore degraded habitat on priority streams with existing protections under the Aquatic Management Area system or other public ownership. We propose to enhance habitat in and along these public waters (in these counties) as funding permits:

1. Keene Creek (St. Louis);
2. Split Rock River (Lake);
3. Baptism River (Lake);
4. Cook County Trout Stream (Cook);
5. Southeast MN streams (maintenance in numerous counties);
6. Mill Creek (Fillmore);
7. Gilbert Creek (Wabasha); and
8. Metro and outstate streams (statewide).

Reduced funding from our original request means several projects will not be implemented unless significant contracting efficiencies or leveraged funding stretches Outdoor Heritage Fund dollars. We propose to focus initially on the Split Rock River, Keene Creek (design and permitting only), Gilbert Creek, and smaller maintenance and vegetation management projects. Work on the other streams will be done if we leverage significant funding.

Individual project descriptions are provided in an attachment.

Goals and scope of work:

The goals of projects are to increase the carrying capacity and trout population of the stream, increase angling

access and participation, improve water quality, and provide other benefits to aquatic and terrestrial wildlife. Each project will accomplish one or more of these objectives: (a) increase adult trout abundance, (b) reduce stream bank erosion and associated sedimentation downstream, (c) reconnect the stream to its floodplains to reduce negative impacts from severe flooding, (d) increase natural reproduction of trout and other aquatic organisms, (e) increase habitat for invertebrates and non-game species, (f) improve connectivity of habitat along aquatic and riparian (terrestrial) corridors, (g) improve riparian forest health and function, (h) improve angler access and participation, and (i) protect productive trout waters from invasive species. The scope of work and methods utilized vary by project site conditions and are discussed in the individual project descriptions provided in the attachment.

How priorities were set:

MNTU focuses habitat enhancement and restoration efforts on those watersheds likely to continue to support viable, fishable populations of naturally reproducing trout and steelhead fifty years and more from now. Work is done only where degraded habitat is a limiting factor for a quality, sustainable fishery. Priority locations are determined using MNTU members' knowledge of watersheds, MNDNR management plans and surveys, other habitat and conservation planning efforts, consultations with MNDNR professionals, and science-based criteria. All things being equal, we consider the potential to draw new anglers outdoors, increase public awareness, engage landowners in conservation, foster partnerships, and increase public support for OHF projects.

Stakeholder support:

We continue receiving strong support from anglers, landowners, rural communities, and local civic and sporting organizations. We will continue gathering local input and developing partnerships in the planning and implementation stages. Landowners typically become very enthusiastic partners.

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

The projects will restore or enhance degraded habitat for fish and wildlife in and along coldwater streams and rivers which historically supported naturally reproducing trout or steelhead populations highly valued by generations of anglers. While trout are the apex predator and key indicator species for the health of coldwater ecosystems, a host of rare aquatic and riparian species are uniquely associated with these systems. Well-functioning coldwater aquatic ecosystems are far fewer in number than the 6% of Minnesota's total stream and river miles which theoretically can still support trout. Even many streams considered to be the best remaining trout streams have badly degraded segments which disrupt connectivity and significantly impact the productivity and long-term resilience and sustainability of the overall trout population. Streams face growing threats from warming temperatures, increased frequency of severe flooding, and rising demand for groundwater extraction from the aquifers which supply inputs of vitally important cold water. The proposed projects are focused on streams and stream segments which will benefit from improved connectivity and help ensure Minnesota retains at least some high quality coldwater fisheries for future generations. A portion of an appropriation would be used to maintain or add enhancements to past projects to ensure continuing habitat benefits.

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

In selecting project sites, MNTU reviews MNDNR watershed specific fisheries management plans and other conservation planning efforts, consults with MNDNR professionals, and applies ranking criteria developed by the

MNDNR. Projects must have the potential to increase the carrying capacity (fish numbers), the streams have natural reproduction, and the public have access to them. Improving the connectivity of good aquatic and riparian habitat is an important consideration and the projects are selected to expand or connect gaps in these corridors. We are increasingly targeting stream segments which build off earlier habitat or protection work in the same stream or connected watershed. Targeted work improving forest habitat in connected corridors along the Split Rock River will benefit not only trout and steelhead fisheries, but numerous wildlife populations and native plant communities.

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

H3 Improve connectivity and access to recreation

H6 Protect and restore critical in-water habitat of lakes and streams

Which two other plans are addressed in this program?

Driftless Area Restoration Effort

Strategic Plan for Coldwater Resources Management in Southeastern Minnesota

Which LSOHC section priorities are addressed in this program?

Metro / Urban

Enhance and restore coldwater fisheries systems

Northern Forest

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

Southeast Forest

Protect, enhance, and restore habitat for fish, game, and nongame wildlife in rivers, cold-water streams, and associated upland habitat

Outcomes

Programs in metropolitan urbanizing region:

Improved aquatic habitat indicators ~ *Measured through surveys of fish, macro invertebrates and/or exposed substrates. Abundance, size structure and species diversity are considered.*

Programs in the northern forest region:

Improved aquatic habitat indicators ~ *Measured through surveys of fish, macro invertebrates and/or exposed substrates. Abundance, size structure and species diversity are considered.*

Programs in southeast forest region:

Rivers, streams, and surrounding vegetation provide corridors of habitat ~ *Enhancement of in-stream and riparian corridor habitat creates miles of connected habitat. Outcomes in aquatic life are measured through surveys of fish, macro invertebrates and/or exposed substrates. Abundance, size structure and species diversity are considered.*

Does this program include leveraged funding?

Yes

Explain the leverage:

We will leverage private funding of Trout Unlimited, which Trout Unlimited will contribute to cover a majority of its direct support service costs. TU members and chapters will donate in-kind labor/services. Several partners (MNDNR, SWCD offices, etc.) will likely contribute significant amounts of time and/or dollars assisting on several projects. We also hope to leverage substantial federal and other funding, including federal NRCS funding on the southeast Minnesota projects, as well as funding for fish passage/culvert replacement work in the Lake Superior basin.

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.

The request is not supplanting or a substitution for previous funding. The work proposed for funding is for new or additional work.

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

MNTU’s coldwater aquatic habitat restoration and enhancement projects are designed for long-term ecological and hydraulic stability. Construction contracts include maintenance/warranty provisions to ensure habitat work is well established. After this period and once riparian vegetation is well established, major maintenance work is not typically required in order to sustain the habitat outcomes for decades. Reconnected floodplains allow flood water to quickly spread out and dissipate energy, reducing the destructive impact of a flood. Flood waters typically flatten streamside vegetation temporarily and do not damage the in-stream structures. The tenfold increase in trout populations and threefold increase in large trout which are common following completion of a southeast Minnesota project, are typically sustainable long-term through natural reproduction.

We anticipate that long-term monitoring of the integrity of the improvements will be done in conjunction with routine inspections and biological monitoring conducted by local MNDNR staff, MNTU members, and landowners as appropriate. This monitoring will not require separate OHF or other constitutional funding. In the event that there are other maintenance costs, potential sources of funding and volunteer labor include MNTU, MNDNR AMA maintenance funding, and other grant funds and organizations. MNTU volunteers will help provide long-term monitoring and periodic labor.

Actions to Maintain Project Outcomes

Year	Source of Funds	Step 1	Step 2	Step 3
One year after grant ends	MNTU volunteers or part of agency staff visits.	Inspect structural elements and vegetation.	If needed, alert DNR and develop action plans.	Conduct maintenance with volunteers and/or contractors if DNR does not.
Every 3 years thereafter	MNTU volunteers and/or agency.	Inspect structural elements and vegetation.	If needed, develop action plan with DNR.	Perform or assist DNR with maintenance if needed.

Activity Details

Requirements

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

Yes

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

Yes

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

Yes

Where does the activity take place?

AMA

Permanently Protected Conservation Easements

County/Municipal

Public Waters

State Forests

Other : National Forest land

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

Timeline

Activity Name	Estimated Completion Date
Begin planning, design and implementation of habitat enhancements.	July 2021
Complete implementation of habitat enhancements, including tree plantings and vegetation work.	June 2026

Date of Final Report Submission: 11/01/2026

Availability of Appropriation: Subd. 7. Availability of Appropriation

Money appropriated in this section may not be spent on activities unless they are directly related to and necessary for a specific appropriation and are specified in the accomplishment plan approved by the Lessard-Sams Outdoor Heritage Council. Money appropriated in this section must not be spent on indirect costs or other institutional overhead charges that are not directly related to and necessary for a specific appropriation. For acquiring real property, the amounts in this section are available until June 30, 2025. Money for restoration or enhancement is available until June 30, 2026. Money for restoration and enhancement of land acquired with an appropriation in this article is available for four years after the acquisition date with a maximum end date of June 30, 2029. If a project receives at least 15 percent of its funding from federal funds, the time of the appropriation may be

extended to equal the availability of federal funding to a maximum of six years if the federal funding was confirmed and included in the original approved draft accomplishment plan. Money appropriated for acquiring land in fee title may be used to restore, enhance, and provide for public use of the land acquired with the appropriation. Public-use facilities must have a minimal impact on habitat in acquired lands.

Budget

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

Totals

Item	Funding Request	Leverage	Leverage Source	Total
Personnel	\$73,000	-	-	\$73,000
Contracts	\$400,000	\$40,000	USFWS, NRCS, SWCD, and/or DNR	\$440,000
Fee Acquisition w/ PILT	-	-	-	-
Fee Acquisition w/o PILT	-	-	-	-
Easement Acquisition	-	-	-	-
Easement Stewardship	-	-	-	-
Travel	\$9,000	-	-	\$9,000
Professional Services	\$220,000	-	-	\$220,000
Direct Support Services	\$20,000	\$20,000	Trout Unlimited	\$40,000
DNR Land Acquisition Costs	-	-	-	-
Capital Equipment	-	-	-	-
Other Equipment/Tools	\$4,000	-	-	\$4,000
Supplies/Materials	\$307,000	\$40,000	USFWS, NRCS, SWCD, and/or DNR	\$347,000
DNR IDP	-	-	-	-
Grand Total	\$1,033,000	\$100,000	-	\$1,133,000

Personnel

Position	Annual FTE	Years Working	Funding Request	Leverage	Leverage Source	Total
Habitat Enhancement staff	0.5	5.0	\$73,000	-	-	\$73,000

Amount of Request: \$1,033,000

Amount of Leverage: \$100,000

Leverage as a percent of the Request: 9.68%

DSS + Personnel: \$93,000

As a % of the total request: 9.0%

Easement Stewardship: -

As a % of the Easement Acquisition: -

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

The program includes several stand alone projects. Many will not be implemented and some will have their scope reduced to match available funding. If we succeed in leveraging significant additional non-OHF funding we will do more of the originally proposed individual projects.

Describe and explain leverage source and confirmation of funds:

Leverage estimates are estimates only. TU will contribute funding to cover much of its direct support service costs. Members will donate in-kind labor. Partners will likely contribute time or dollars. Reduced funding means cutting most fish barrier removal and southeast MN work, which significantly reduces the chance of federal funding.

Personnel

Has funding for these positions been requested in the past?

Yes

Contracts

What is included in the contracts line?

This is for contracted services on habitat enhancement construction projects, and includes heavy equipment use and other labor.

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

None.

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?

The Direct Support Services requested represents a portion of TU's federal rate, which is approved annually. The requested amount likely represents approximately one half of what we would be eligible to claim based upon DNR approval under earlier grant agreements. TU is donating the other portion.

Other Equipment/Tools

Give examples of the types of Equipment and Tools that will be purchased?

These would be hand tools and possibly chain saws. Tools/equipment would be used by volunteers, staff and partners for hand labor.

Federal Funds

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

No

Output Tables**Acres by Resource Type (Table 1)**

Type	Wetland	Prairie	Forest	Habitat	Total Acres
Restore	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-	-
Protect in Easement	-	-	-	-	-
Enhance	-	-	300	50	350
Total	-	-	300	50	350

Total Requested Funding by Resource Type (Table 2)

Type	Wetland	Prairie	Forest	Habitat	Total Funding
Restore	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-	-
Protect in Easement	-	-	-	-	-
Enhance	-	-	\$460,000	\$573,000	\$1,033,000
Total	-	-	\$460,000	\$573,000	\$1,033,000

Acres within each Ecological Section (Table 3)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest	Total Acres
Restore	-	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-	-	-
Protect in Easement	-	-	-	-	-	-
Enhance	7	-	43	-	300	350
Total	7	-	43	-	300	350

Total Requested Funding within each Ecological Section (Table 4)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest	Total Funding
Restore	-	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-	-	-
Protect in Easement	-	-	-	-	-	-
Enhance	\$10,000	-	\$563,000	-	\$460,000	\$1,033,000
Total	\$10,000	-	\$563,000	-	\$460,000	\$1,033,000

Average Cost per Acre by Resource Type (Table 5)

Type	Wetland	Prairie	Forest	Habitat
Restore	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-
Protect in Easement	-	-	-	-
Enhance	-	-	\$1,533	\$11,460

Average Cost per Acre by Ecological Section (Table 6)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest
Restore	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-	-
Protect in Easement	-	-	-	-	-
Enhance	\$1,428	-	\$13,093	-	\$1,533

Target Lake/Stream/River Feet or Miles

5 miles

Parcels

Parcel Information

Sign-up Criteria?

No

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

MNTU focuses habitat enhancement and restoration efforts on those watersheds likely to continue to support viable, fishable populations of naturally reproducing trout, steelhead, and salmon fifty years and more from now. Work is done only where degraded habitat is a limiting factor for a quality, sustainable fishery. Priority locations are determined using MNTU members' knowledge of watersheds, MNDNR management plans and surveys, other habitat and conservation planning efforts, consultations with MNDNR professionals, and science-based criteria.

Restore / Enhance Parcels

Name	County	TRDS	Acres	Est Cost	Existing Protection	Description
Cook County Pilot Stream	Cook	06003209	0	\$0	Yes	Pilot using loggers to place large cover logs in stream channel to create better brook trout habitat.
Cook County trout stream	Cook	06202120	0	\$0	Yes	Enhance habitat by working with logger to place cover logs in 2,000 feet of stream.
Metro and outstate streams (prioritized)	Dakota	11420234	7	\$0	Yes	Enhance habitat primarily through riparian vegetation management.
Trout Brook	Dakota	11317226	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Vermillion River	Dakota	11418229	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Camp Creek	Fillmore	10210205	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Diamond Creek (incl. So Fk)	Fillmore	10309214	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Diamond Creek (incl. So Fk)	Fillmore	10309211	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Diamond Creek (incl. So Fk)	Fillmore	10309213	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Diamond Creek (incl. So Fk)	Fillmore	10309224	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Duschee Creek	Fillmore	10310224	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Duschee creek	Fillmore	10310223	0	\$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.

Duschee creek	Fillmore	10310226	0	\$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.
Duschee creek	Fillmore	10310224	0	\$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.
Gribben Creek	Fillmore	10309227	0	\$0	Yes	Enhance trout habitat
Gribben Creek	Fillmore	10309228	0	\$0	Yes	Enhance trout habitat
Gribben Creek	Fillmore	10309216	0	\$0	Yes	Enhance trout habitat
Gribben Creek	Fillmore	10309221	0	\$0	Yes	Enhance trout habitat
Maple Creek	Fillmore	10308233	0	\$0	Yes	Enhance trout habitat
Maple Creek	Fillmore	10208234	0	\$0	Yes	Enhance trout habitat
Maple Creek	Fillmore	10208204	0	\$0	Yes	Enhance trout habitat
Maple Creek	Fillmore	10208203	0	\$0	Yes	Enhance trout habitat
Mill Creek	Fillmore	10511231	0	\$0	Yes	Enhance habitat in 3,000 foot segment for wild brown trout.
Mill Creek	Fillmore	10411205	0	\$0	Yes	Enhance habitat in and adjacent to popular city park.
Mill Creek	Fillmore	10411206	0	\$0	Yes	Enhance habitat in and adjacent to popular city park.
Rice Creek	Fillmore	10411223	0	\$0	Yes	Enhance habitat on productive stream along Hwy 52 a short dirve from Rochester
Root River	Fillmore	10310221	0	\$0	Yes	Enhance habitat for brown trout.
Root River	Fillmore	10210206	0	\$0	Yes	Enhance habitat for brown trout.
So Fork Root River	Fillmore	10209224	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
So Fork Root River	Fillmore	10208217	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
So Fork Root River	Fillmore	10209226	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
So Fork Root River	Fillmore	10208219	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
So Fork Root River	Fillmore	10208218	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
So Fork Root River	Fillmore	10209225	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Willow Creek	Fillmore	10211213	0	\$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.

Wisel Creek	Fillmore	10208232	0	\$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
Wisel Creek	Fillmore	10208229	0	\$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
Southeast Maintenance & Additional Enhancements	Goodhue	11215226	12	\$0	Yes	Maintenance and additional enhancements on older projects to ensure continued habitat benefits for years to come.
Beaver Creek	Houston	10207224	0	\$0	Yes	Improve reach damaged by severe floods in the past decade.
Bee Creek	Houston	10106233	0	\$0	Yes	Enhance trout habitat
Bee Creek	Houston	10106229	0	\$0	Yes	Enhance trout habitat
Bee Creek	Houston	10106232	0	\$0	Yes	Enhance trout habitat
Daley Creek	Houston	10307205	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Daley Creek	Houston	10307204	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Daley Creek	Houston	10407233	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Girl Scout Camp Creek	Houston	10307230	0	\$0	Yes	Enhance trout habitat
Looney Creek	Houston	10406202	0	\$0	Yes	Maintenance and added habitat to increase productivity
Kabekona Creek	Hubbard	14333212	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Kabekona Creek	Hubbard	14333211	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Kabekona Creek	Hubbard	14333203	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Kabekona Creek	Hubbard	14333202	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Statewide maintenance (prioritized)	Hubbard	14333212	0	\$0	Yes	Habitat enhancement via management of riparian trees.
Baptism River	Lake	05809212	0	\$0	Yes	Replace up to 5 culverts which act as trout barriers.
Baptism River	Lake	05708229	0	\$0	Yes	Reconnect habitat through removal of fish passage barriers.
Baptism River tributary	Lake	05707233	0	\$0	Yes	Replace culverts which act as trout barriers.
Baptism River watershed	Lake	05708232	0	\$0	Yes	Replace culverts which act as trout barriers.
Baptism River watershed	Lake	05708231	0	\$0	Yes	Replace culverts which act as trout barriers.
Baptism River watershed	Lake	05708226	0	\$0	Yes	Replace culverts which act as trout barriers.

Baptism River watershed	Lake	05707219	0	\$0	Yes	Replace culverts which act as trout barriers.
Baptism River watershed	Lake	05707218	0	\$0	Yes	Replace culverts which act as trout barriers.
Baptism River watershed	Lake	05807225	0	\$0	Yes	Replace culverts which act as trout barriers.
Baptism River watershed	Lake	05707217	0	\$0	Yes	Replace culverts which act as trout barriers.
Baptism River watershed	Lake	05708226	0	\$0	Yes	Replace culverts which act as trout barriers.
Gooseberry River	Lake	05510230	0	\$0	Yes	Replace culverts which act as trout barriers.
Gooseberry River	Lake	05410209	0	\$0	Yes	Replace culverts which act as trout barriers.
Little Stewart River	Lake	05310219	0	\$0	Yes	Enhance trout habitat via riparian forest management
Little Stewart River	Lake	05310220	0	\$0	Yes	Enhance trout habitat via riparian forest management
Little Stewart River	Lake	05311223	0	\$0	Yes	Enhance trout habitat via riparian forest management
Manitou River	Lake	05806217	0	\$0	Yes	Enhance habitat on top tier brook trout stream, including for benefits extending well downstream.
Manitou River	Lake	05907236	0	\$0	Yes	Plant degraded riparian corridors to long-lived tree species for shading and long term trout habitat benefits.
Manitou River watershed	Lake	05907230	0	\$0	Yes	Replace culverts which act as trout barriers.
Manitou River watershed	Lake	05807205	0	\$0	Yes	Replace culverts which act as trout barriers.
Split Rock River	Lake	05409227	0	\$0	Yes	Enhance habitat for wild brook trout and steelhead
Split Rock River	Lake	05408206	0	\$0	Yes	Enhance habitat for wild juvenile steelhead and brook trout in very popular steelhead river.
Split Rock River	Lake	05509217	0	\$0	Yes	Replace culverts which act as trout barriers.
Split Rock River	Lake	05509226	300	\$0	Yes	Enhance forest habitat for fish and wildlife benefits.
Stewart River	Lake	05411226	0	\$0	Yes	Enhance forest habitat and riparian habitat
Stewart River	Lake	05311224	0	\$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05311215	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Stewart River	Lake	05311223	0	\$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05310229	0	\$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05311222	0	\$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05411210	0	\$0	Yes	Enhance trout habitat via riparian forest management

Stewart River	Lake	05411234	0	\$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05310219	0	\$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05310215	0	\$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05411222	0	\$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05411215	0	\$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05310220	0	\$0	Yes	Enhance trout habitat via riparian forest management
Two Island River	Lake	05905232	0	\$0	Yes	Replace culverts which act as trout barriers.
Middle Branch Whitewater River	Olmsted	10711235	0	\$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.
Mill Creek	Olmsted	10512223	0	\$0	Yes	Enhance trout habitat
Mill Creek	Olmsted	10512225	0	\$0	Yes	Enhance trout habitat
Mill Creek	Olmsted	10512226	0	\$0	Yes	Enhance trout habitat
Mill Creek	Olmsted	10512236	0	\$0	Yes	Enhance trout habitat
Mill Creek	Olmsted	10511231	0	\$0	Yes	Enhance trout habitat
Mill Creek	Olmsted	10512214	0	\$0	Yes	Enhance trout habitat
Southeast Maintenance and Additional Enhancements	Olmsted	10711226	0	\$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.
Hay Creek	Pine	04118232	0	\$0	Yes	Enhance brook trout habitat on nearest stream to north mtro anglers.
Amity Creek	St. Louis	05114224	0	\$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05113232	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Amity Creek	St. Louis	05114235	0	\$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05014201	0	\$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05113232	0	\$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05113231	0	\$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05113230	0	\$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05114236	0	\$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05114225	0	\$0	Yes	Enhance trout habitat via riparian forest management
Chester Creek	St. Louis	05014215	0	\$0	Yes	Enhance trout habitat via riparian forest management
Chester Creek	St. Louis	05014216	0	\$0	Yes	Enhance trout habitat via riparian forest management
Chester Creek	St. Louis	05014216	0	\$0	Yes	Enhance trout habitat via riparian forest management

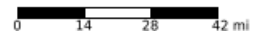
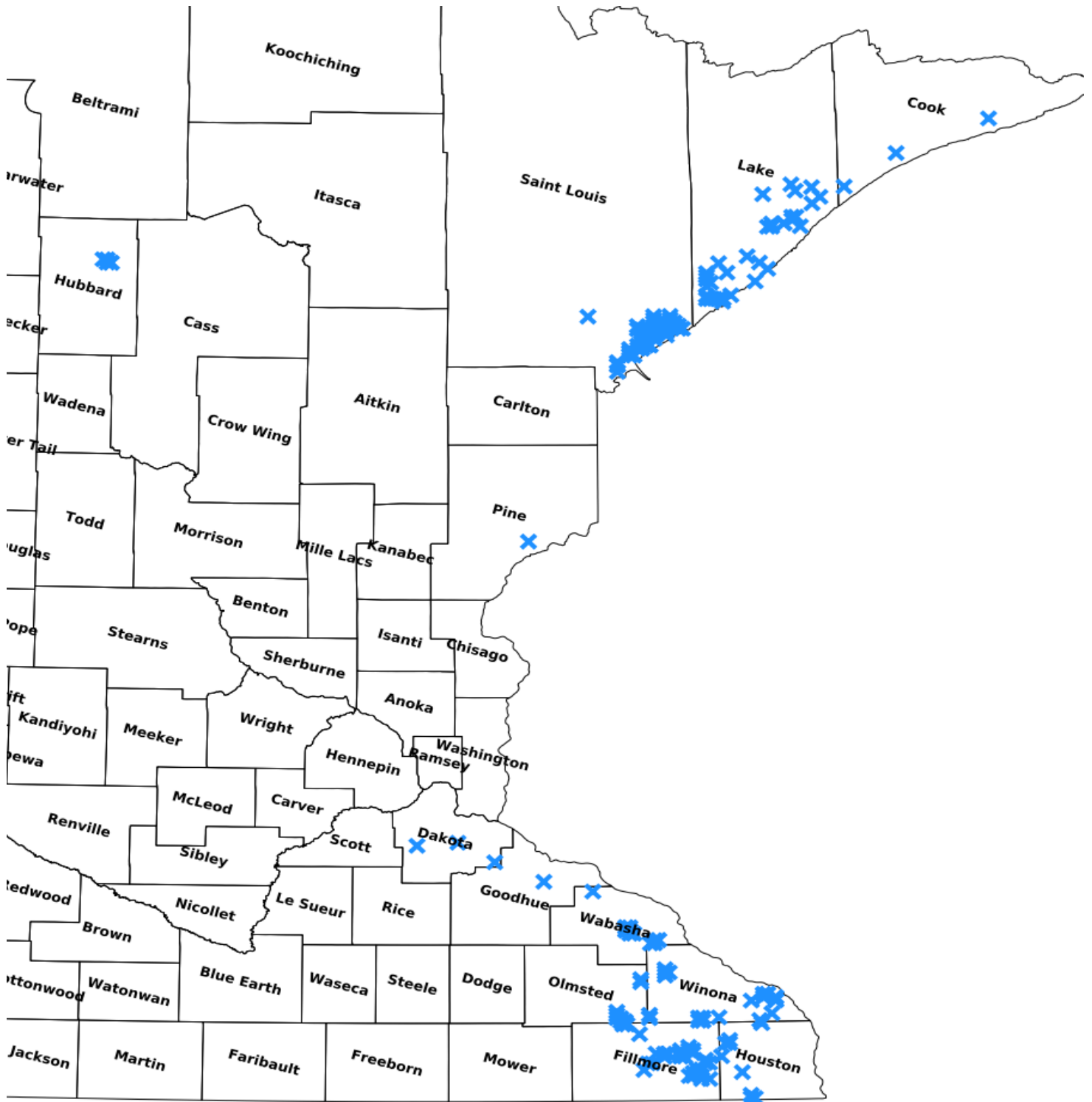
Chester Creek	St. Louis	05014209	0	\$0	Yes	Enhance trout habitat via riparian forest management
Chester Creek	St. Louis	05014204	0	\$0	Yes	Enhance trout habitat via riparian forest management
Chester Creek	St. Louis	05014209	0	\$0	Yes	Enhance habitat for wild brook trout.
Chester Creek	St. Louis	05014216	0	\$0	Yes	Enhance habitat for wild brook trout.
Chester Creek	St. Louis	05014215	0	\$0	Yes	Enhance habitat for wild brook trout
East Branch, Amity Creek	St. Louis	05113231	0	\$0	Yes	Enhance habitat for wild brook trout
French River	St. Louis	05213228	0	\$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213227	0	\$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213228	0	\$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213235	0	\$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213234	0	\$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213216	0	\$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213221	0	\$0	Yes	Enhance trout habitat via riparian forest management
Keene Creek	St. Louis	05015236	0	\$0	Yes	Enhance trout habitat via riparian forest management
Keene Creek	St. Louis	05015225	0	\$0	Yes	Enhance trout habitat via riparian forest management
Keene Creek	St. Louis	05015236	0	\$0	Yes	Enhance habitat on remaining segment of wild trout stream in well used parkland.
Keene Creek	St. Louis	04915212	0	\$0	Yes	Enhance habitat for wild brook trout in highly accessible reach in City of Duluth. in
Lester River	St. Louis	05113208	0	\$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05114212	0	\$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05114201	0	\$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05114202	0	\$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05214235	0	\$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05113216	0	\$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05113221	0	\$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05113217	0	\$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05113205	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212218	0	\$0	Yes	Enhance trout habitat via riparian forest management

Sucker River	St. Louis	05112203	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05112204	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05113213	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212233	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212232	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212231	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212230	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212229	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212219	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05113201	0	\$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05113212	0	\$0	Yes	Enhance trout habitat via riparian forest management
Tischer Creek	St. Louis	05014202	0	\$0	Yes	Replace barrier for native brook trout in Duluth
Us-Kab-Wan-Ka River	St. Louis	05216214	0	\$0	Yes	Enhance trout habitat via riparian forest management
West Branch, Amity Creek	St. Louis	05113231	0	\$0	Yes	Enhance habitat for wild brook trout
East Indian Creek	Wabasha	10910228	0	\$0	Yes	Enhance trout habitat via riparian forest management
East Indian Creek	Wabasha	10910229	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
East Indian Creek	Wabasha	10910231	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
East Indian Creek	Wabasha	10910228	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
East Indian Creek	Wabasha	10910232	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Gilbert Creek	Wabasha	11113211	7	\$0	Yes	Enhance habitat in 3,000 foot segment for wild brown trout in Lake City area stream.
West Indian Creek	Wabasha	10911217	0	\$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
West Indian Creek	Wabasha	10911208	0	\$0	Yes	Maintenance and added habitat to increase productivity
West Indian Creek	Wabasha	10911216	0	\$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
West Indian Creek	Wabasha	10911206	0	\$0	Yes	Enhance trout habitat via riparian vegetation management

West Indian Creek	Wabasha	10911207	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
West Indian Creek	Wabasha	10911208	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
West Indian Creek	Wabasha	10911205	0	\$0	Yes	Maintenance and added habitat to increase productivity
West Indian Creek	Wabasha	10911206	0	\$0	Yes	Maintenance and added habitat to increase productivity
West Indian Creek	Wabasha	10911207	0	\$0	Yes	Maintenance and added habitat to increase productivity
Cedar Valley Creek	Winona	10606232	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Little Pickwick Creek	Winona	10605232	0	\$0	Yes	Maintenance and added habitat to increase productivity
Little Pickwick Creek	Winona	10605229	0	\$0	Yes	Maintenance and added habitat to increase productivity
Little Pickwick Creek	Winona	10605229	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Little Pickwick Creek	Winona	10605232	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Looney Creek	Winona	10506234	0	\$0	Yes	Maintenance and added habitat to increase productivity
Pickwick Creek	Winona	10606224	0	\$0	Yes	Enhance trout habitat
Pickwick Creek	Winona	10606223	0	\$0	Yes	Maintenance and added habitat to increase productivity
Pickwick Creek	Winona	10606224	0	\$0	Yes	Maintenance and added habitat to increase productivity
Pickwick Creek	Winona	10606226	0	\$0	Yes	Enhance trout habitat
Pickwick Creek	Winona	10606223	0	\$0	Yes	Enhance trout habitat
Pine Creek	Winona	10508232	0	\$0	Yes	Maintenance and added habitat to increase productivity
Pine Creek	Winona	10508231	0	\$0	Yes	Maintenance and added habitat to increase productivity
Pine Creek	Winona	10508225	0	\$0	Yes	Maintenance and added habitat to increase productivity
Pine Creek	Winona	10508230	0	\$0	Yes	Maintenance and added habitat to increase productivity
Pine Creek (New Hartford Creek)	Winona	10505219	0	\$0	Yes	Enhance trout habitat via riparian vegetation management

Rush Creek	Winona	10508229	0	\$0	Yes	Maintenance and added habitat to increase productivity
Rush Creek	Winona	10508232	0	\$0	Yes	Maintenance and added habitat to increase productivity
South Branch Whitewater River	Winona	10710213	0	\$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
South Branch Whitewater River	Winona	10710211	0	\$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
South Branch Whitewater River	Winona	10710223	0	\$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
South Branch Whitewater River	Winona	10710214	0	\$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
Trout Run Creek	Winona	10510219	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Trout Run Creek	Winona	10510230	0	\$0	Yes	Enhance trout habitat via riparian vegetation management
Trout Run Creek	Winona	10510230	0	\$0	Yes	Maintenance and added habitat to increase productivity

Parcel Map



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