#### **Main Request for Funding Form**

## Lessard-Sams Outdoor Heritage Council Fiscal Year 2012

Program or Project Title: DNR AQUATIC HABITAT PROGRAM

|                          | Funding<br>Request | OHF Out-Year Projections of Needs |         |         |  |  |  |
|--------------------------|--------------------|-----------------------------------|---------|---------|--|--|--|
| Funds Requested (\$000s) | FY 2012            | FY 2013                           | FY 2014 | FY 2015 |  |  |  |
| Outdoor Heritage Fund    | \$ 17,815          | 17, 000                           | 17,000  | 17,000  |  |  |  |

| Manager's | Name: | Michael | Duval |
|-----------|-------|---------|-------|
|-----------|-------|---------|-------|

Organization: Minnesota Dept of Natural Resources

Street Address: 500 Lafayette Road, Box 20

City Saint Paul State MN Zip: 55155

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Organization Web Site: www.mndnr.gov

County Location: [Only need to enter on web form.]

| Eco         | logical Plannir                           | ig Re | egions <i>:</i> |             |            |  |                  |  |  |  |
|-------------|---|-------|-----------------|-------------|------------|--|------------------|--|--|--|
|             | Northern Fores                            | t     |                 | Prairie     | Transition |  | Southeast Forest |  |  |  |
| $\boxtimes$ | Prairie                                   |       | Metro/ℓ         | Jrban       |            |  |                  |  |  |  |
| Acti        | ivity Type:                               |       |                 |             |            |  |                  |  |  |  |
| $\boxtimes$ | Protect                                   |       | Restore         | $\boxtimes$ | Enhance    |  |                  |  |  |  |
| Pric        | Priority Resources addressed by activity: |       |                 |             |            |  |                  |  |  |  |
|             | Wetlands                                  |       | Forests         |             | Prairie    |  | Habitat          |  |  |  |

#### **Project Abstract**

We will use a programmatic approach to achieve prioritized aquatic habitat protection, restoration, and enhancement for lakes, trout streams, and rivers across all LSOHC planning regions of Minnesota.

#### **Project Narrative**

#### Design and scope of work

Problem to be addressed

Minnesota's aquatic habitats have been degraded or threatened by a century or more of land, hydrology, and human settlement related alterations. The consequences to aquatic species have been reduced habitats for essential life history stages, lack of access to traditional spawning areas, and fragmentation of formerly continuous habitat that served as corridors to facilitate seasonal movements.

Geographically, aquatic habitats are in various states of quality and experiencing differing levels of environmental stress with a general pattern of healthy habitats under low stress in the northeast and less healthy habitats under high stress in the southern and western portions of the state (see Figure H-15 in the State Conservation and Preservation Plan). But even within this generalized pattern there are many notable exceptions – some aquatic habitats are exhibiting declining quality from local environmental stress in the otherwise low stress landscape of the northeast, while some moderate to high quality aquatic habitats still persist within the high environmental stress landscape to the west and south. Against this backdrop, DNR has a diverse infrastructure of habitat programs that provide a meaningful framework for delivering habitat protection, restoration, and enhancement throughout the state.

#### Urgency and opportunity

A recent series of articles entitled *Losing Our Lakes* in the Minneapolis Star Tribune highlighted a few case examples of both urban and lakeshore development and their degrading effect on Minnesota's lakes. The underlying conclusion of the series was that Minnesota's current development trajectory is not only unsustainable, but it is tremendously costly and difficult (if not uncertain) to undo the ecological damage to our prized aquatic resources from short-sighted development choices. The articles have left some Minnesotans angry, frustrated, or even hopeless about the future of their common heritage.

Yet this is not the first time a story like this has been told. Dennis Anderson's four-part series, *The State We're In*, published by the Star Tribune nearly a decade previous highlighted a century's worth of aquatic habitat degradation that has occurred throughout the Land of 10,000 Lakes. The Anderson series stirred Minnesotans' consciousness, stimulated debate between the conservation community and policy makers, and perhaps germinated the seed leading to historic passage of the Clean

Water, Land and Legacy Amendment. But it did not change what was happening on the land and in the water across Minnesota. The ensuing decade since the Anderson series was published only saw an accelerated pace of aquatic habitat degradation as the real estate bubble continued to grow and the now retiring baby-boomer generation increasingly bought up and developed their own piece of Minnesota's lake heritage. Transportation infrastructure improved to more rapidly deliver Minnesotans from their homes in metropolitan areas to lakes country and the north woods in pursuit of vacation and recreation. The increased convenience of access to lakes country fueled development of seasonal homes and with them, removal of riparian habitats and the destruction and disturbance of nearshore, shallow water habitats by docks, sand blankets, and recreational boating activities. Federal farm policy continued to underfund conservation programs while emerging biofuel energy initiatives indirectly encouraged the conversion of existing conservation lands back into row-crop production. In short, the decision-making shortcomings highlighted by the Star Tribune Losing Our Lakes series are only a symptom of much greater economic and social drivers adversely affecting aquatic habitats throughout Minnesota.

But the current economic downturn creates a significant opportunity to deliver aquatic habitat conservation via the three-legged stool of protection, restoration, and enhancement. Real estate prices have moderated and provide good conservation value for fee title and conservation easement acquisitions. The state's construction workforce is more available for conservation restoration and enhancement projects following the decline of new start-ups in the building sector. Federal economic stimulus funding is being directed at major aquatic landscapes that include Minnesota such as the Great Lakes and the Mississippi River Basin and thereby represents an opportunity to leverage significant federal dollars. Federal legislation (the National Fish Habitat Conservation Act) is currently pending in Congress that would direct an additional \$75 million annually toward aquatic habitat protection, restoration, and enhancement work nationwide. These are certainly hard times but there is also a tremendous window of opportunity to create a conservation legacy for future generations much like was achieved 80 years ago.

#### Scope of the work

This proposal uses a programmatic approach to achieve prioritized aquatic habitat protection, restoration, and enhancement for lakes, trout streams, and rivers across Minnesota. We propose to: i) protect over 38 miles of shoreline on lakes, rivers and trout streams; ii) restore and enhance river and stream functions that will benefit up to nearly 700 river miles; iii) enhance nearly 32 miles of shoreline habitat on publicly-owned lakeshore; iv) effect structural repair and modification to 1 dam that will integrate fish passage and restore connectivity to over 10 upstream river miles; and v) enhance fish passage through road culverts at 8 high-value stream sites around the state, thereby reconnecting access to an estimated 24 upstream miles. The strategic approach and priority resources targeted in this proposal are supported by a number of

internal and external conservation planning documents. The DNR will implement the objectives of this proposal through established and highly successful programs each having strong stakeholder support including: Aquatic Management Area Program, Shoreland Habitat Restoration Program, Stream Habitat Program, and Coldwater Streams Program.

How will this directly relate to restoring, protecting, or enhancing habitat? Why will this strategy work?

Acquisition of priority habitats provides permanent protection backed by state and federal laws. The AMA designation unit within the Outdoor Recreation System was established by the Legislature in 1992 and has strong support from conservation groups and anglers. The AMA Program currently has an inventory of 830 miles of shoreline in over 330 AMAs, which provide permanent protection of critical riparian habitats, perpetuate fish and wildlife populations, safeguard water quality, and offer public recreational access opportunities as an important additional benefit.

Channel restoration, dam modification, and shoreline enhancement work is based on proven methods and DNR experience with multiple projects. By drawing on accumulated scientific knowledge, DNR strives to deliver the best possible restoration and enhancement projects using the best available science.

The DNR has worked on large-scale river and stream restoration projects since 1998 and has completed or assisted in design elements of over 100 stream projects addressing restoration, fish passage, dam removal and dam modification to rapids. Providing fish passage over in-stream barriers such as low-head dams reconnects fish and other aquatic species to upstream habitats essential for spawning, juvenile life stages, and overall abundance and genetic diversity. Stream restoration projects reconstruct the stream's natural pattern, profile, and dimension and address the key components of a stream: wildlife and fish habitat, water quality, connectivity to the floodplain and upstream reaches, and hydrology. Natural stream design favors hydrologic conditions that do not degrade the stream bank or bed and provides a diversity of microhabitats that are more favorable to fish and other aquatic species. As examples of implementing these strategies, DNR has conducted large-scale projects to restore the Whitewater River to its original channel and reconnected nearly the entire Minnesota portions of the Red River by direct dam removal or modification leaving only a few dams presently remaining that impede movement of fish (primarily lake sturgeon). These are significant and durable accomplishments benefiting aquatic habitat.

Scientific studies from throughout the Midwest have shown that shoreline development negatively impacts the quantity and quality of aquatic habitat. DNR research on spawning site selection by bass and crappie indicates that these species avoid developed shoreline for spawning even when suitable in-lake habitat is present there.

Further, a Michigan study of bass nesting found reduced nesting success and fry production associated with developed shorelines in comparison to undeveloped areas of the same lake. Numerous studies in Wisconsin have shown a simplification of vegetation and woody habitat and declines in important non-game species like frogs and neo-tropical songbirds correlated with development of shorelines. And finally, preliminary results of on-going academic research funded by DNR through a federal SWAP grant is showing strong association of longear sunfish, a species of greatest conservation need (SGCN), with aquatic habitat fragments along developed shorelines, indicating, in contrast to game species research, the ability of some non-game species to utilize small remnant patches of habitat (preserved or restored). Therefore, pulling back human activities from the immediate shoreline area by use of native vegetated buffers, enhancing remnant patches of shoreline and nearshore habitat, and concentrating human activity to narrow access points at the shore-lake interface are collectively seen as a key strategy to overcome the adverse impacts of human shoreline development on game and non-game aquatic species. The DNR Shoreland Habitat Program was developed to address this strategic need and has conducted shoreline enhancement projects for over 10 years. During that time the program has grown in scope and popularity and enhanced over 21 miles of shoreline on lakes across the state including many challenging high erosion sites. The annual number of shoreland restoration projects completed has increased from 23 in 2002 to 60 in 2009. At the end of this L-SOHC grant period, public shoreline including AMAs and other state, county, township, and municipal lands will be enhanced to provide erosion protection, habitat diversity for multiple species of fish and wildlife (including game species and SGCNs), and enhanced aesthetics. Native plants and natural materials will be utilized to increase habitat complexity, provide protective cover, stabilize shorelines, and firmly anchor soils. And habitat benefits will continue to accrue beyond the term of this grant as project sites mature and the shoreline assumes a more natural character.

#### Parcel selection and scoring process

To achieve the program goals of this proposal, DNR will implement AMA acquisition and stream habitat restoration projects from existing prioritized lists. Natural resource plans provide much of the criteria for prioritizing habitat protection, restoration, and enhancement activities. For example, AMA acquisition and large-scale stream restoration and enhancement projects are scored based on a suite of criteria ranging from scope of project and quality of resource benefited to project readiness and feasibility. The sum of these scores creates a ranking value from which to prioritize among the many available project opportunities. See pp. 40-41 of AMA Plan for example of scoring criteria.

Other projects are more opportunity driven such as lakeshore habitat or fish passage enhancement where the needs are ubiquitous. Priorities are then based upon willing

landowners, capable partners, and magnitude of the project or benefit to the resource. Projects that enhance a sizeable length of shoreline, reconnect access to many miles of formerly severed stream, or build upon previous projects within a habitat complex are examples of prioritization considerations.

Level of stakeholder opposition to and involvement in this proposal.

DNR has held face-to-face coordination discussions with several of our conservation partners and stakeholders about the elements of this proposal. They are informed of the aquatic habitat activities contained here and are supportive of our proposed approach.

From these discussions, it is clear that we have some priority project sites in common and we have coordinated which party will take the lead in submitting a funding proposal to the Council. Because this proposal seeks implementation funding to work through DNR's prioritized lists of project opportunities, the Council may see some project sites on our parcel list that also may appear as individual project proposals submitted by some of our local partners. For example, after extensive coordination discussions and joint planning efforts, our watershed district partners in the Red River Valley have submitted a proposal to the Council to fund habitat restoration work on the Mustinka River, which is a high-priority DNR project and appears on this proposal's parcel list, as well. This is not an attempt to double-dip, but rather, is transparent disclosure of the projects that DNR sees as our highest priority from a statewide programmatic perspective and how we would expend an OHF appropriation. Thus, if the Council chooses to fund our partner proposals, DNR's response would be to move to the next project(s) down the list until the requested funds are fully allocated or adjust our funding request to reflect the next few projects in queue. In short, DNR project lists represent our program priorities and do not change or get resorted based on coordinated funding requests by partners, but a favorable funding recommendation for a partner proposal by the Council will affect which projects DNR subsequently will pursue on our L-SOHC parcel list.

In addition to this formal coordination with partners, we have engaged partners and stakeholders in our aquatic conservation planning. The AMA Acquisition Planning Committee developed an acquisition plan in 2007 that recommended purchasing an additional 2,595 miles of riparian lands over 25 years to meet the habitat protection needs of a rapidly changing Minnesota. This stakeholder-developed plan guides DNR's AMA program implementation.

Restoration and enhancement elements of this proposal are linked to other landscape or system-specific management plans (e.g., the Southeast MN coldwater stream plan) that have been developed through extensive internal and external coordination. These elements represent shared priorities with multiple partners and stakeholders.

#### **Planning**

This proposal addresses the following LSOHC priority actions by planning section:

#### Forest Section

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

#### /Prairie Transition Section

(1) Protect, enhance, and restore wild rice wetlands, shallow lakes, wetland/grassland complexes, aspen parklands, and shoreland that provide critical habitat for game and non-game wildlife.

#### <u>Urbanizing Section</u>

- (3) Enhance and restore coldwater fisheries systems.
- (4) Protect, enhance and restore riparian and littoral habitats on lakes to benefit game and non-game fish species.

#### Forest Section

(2) Protect, enhance and restore habitat for fish, game and non-game wildlife in rivers, cold water streams and associated upland habitat.

#### Section

- (4) Restore or enhance habitat on public lands.
- (5) Protect, restore and enhance shallow lakes.

In addition, this proposal is supported by the recommendations of the following plans:

#### MNDNR Strategic Conservation Agenda Update:

Meets the criteria of conservation in the Mission Statement, 'work with citizens to conserve and manage the state's natural resources;" and Strategic Conservation Agenda goals to conserve, restore, and enhance Minnesota's natural lands and habitats, water resources, and watersheds.

#### Minnesota Conservation and Preservation Plan

This proposal addresses a number of recommendations contained in the Statewide Conservation and Preservation Plan including:

Habitat Recommendation 2, Protect critical shorelands of streams and lakes (p. 67). Fee acquisition and conservation easements are among the tools needed for protection of critical shorelines of streams and lakes. Acquiring the highest-priority shorelines "is one essential component of a multi-strategy approach to

preserving the clean water legacy that Minnesota's citizens and visitors are used to experiencing." (p.69) Benefits include protection of critical shoreline habitats from degradation, public angler access, and providing areas for education and research.

- Habitat Recommendation 6A, Restore habitat structure within lakes (p. 81). This recommendation seeks "... to restore the natural features of lakeshore habitats (shoreland, shoreline, and near-shore areas)."
- Habitat Recommendation 6B, Protect and restore in-stream habitats (p. 82).
   Several approaches can be implemented to protect and restore in-stream habitats. Removal or modification of dams and installing culverts with increased capacity would improve connectivity of aquatic systems. Riparian vegetation can be restored to stabilize stream banks. Channelized streams can be reconstructed to provide a flood plain to dissipate stream energy and allow the channel to remeander, which will provide more diverse habitat for aquatic organisms.

#### Tomorrow's Habitat for the Wild and Rare

The State's Wildlife Action Plan is a rare species condition assessment and habitat conservation guidance document for Minnesota's species of greatest conservation need. Several aquatic species of biota are included in this plan including plants, insects, mussels, fish, and water-dependent and seasonal migrant bird species. Aquatic management actions are listed on pages 270-281 of the plan.

#### Minnesota's AMA Acquisition Plan 2008-2033

The DNR's AMA Acquisition Plan calls for shoreline acquisition to ensure shoreline habitat protection, water quality maintenance, and angler access for present and future generations. This plan envisions acquisition of 3,428 miles of lake and stream habitat during the next 25 years, and provides general ECS section acquisition targets (see table 2 on page 21 of the plan).

Strategic Plan for Coldwater Resources Management in SE Minnesota 2004-2015
This plan establishes targets to protect, improve, and restore coldwater aquatic habitat (pgs 9-11) and fish communities. The plan identifies important issues and strategies that will enable DNR to maintain and improve the short and long-term values of the unique trout stream resource of the Southeast and provide angling clientele with diverse angling opportunities.

#### Red River of the North Fisheries Management Plan

The overall approach to habitat management in the Red River is to maintain, restore, enhance, and protect riverine and upland habitats and their functions. The plan includes the following recommended actions (pgs 11-12):

Establish and maintain stable stream channels.

- Improve and protect high quality fish spawning and rearing habitats within Red River and tributaries.
- Provide uninterrupted fish passage/river connectivity.
- Provide appropriate heterogeneous and complex physical habitat components.
- Provide water of sufficient water quality to sustain healthy aquatic systems.
- Re-establish a more natural flow regime.

#### Midwest Glacial Lakes Partnership: Strategic Plan for Fish Habitat Conservation in Midwest Glacial Lakes

The Midwest Glacial Lakes Partnership (MGLP) is a formal Fish Habitat Partnership under the National Fish Habitat Action Plan (.fishhabitat.org). The mission of the Midwest Glacial Lakes Partnership is to work together to protect, rehabilitate, and enhance sustainable fish habitats in glacial lakes of the Midwest for the use and enjoyment of current and future generations. MGLP has developed a strategic plan (.MidwestGlacialLakes.org/resources/) to protect and restore aquatic habitats in naturally-formed glacial lakes across the upper Midwest states. The MGLP strategic plan identifies a number of objectives (p. 26-29) designed to conserve (protect, restore, and enhance) the habitats of Midwestern glacial lake fish populations, to support a broad natural diversity of aquatic species, to promote self-sustaining fish populations, and to provide successful fishing opportunities.

#### National Fish Habitat Action Plan

The National Fish Habitat Action Plan is a national partnership-based framework for achieving protection and restoration of priority aquatic habitats that support a broad natural diversity of fish and other aquatic species. The plan uses a science-based approach to target priority areas and implement needed projects that address causative factors and use best management practices. The Action Plan is implemented through regional Fish Habitat Partnerships (functionally analogous to Waterfowl Joint Ventures under the North American Waterfowl Management Plan which is supported by the North American Wetlands Conservation Act). Fish Habitat Partnerships leverage national and state resources to achieve local priorities for habitat protection and restoration.

(.fishhabitat.org/documents/plan/National Fish Habitat Action Plan.pdf)

#### Individual Lake and Stream Management Plans

The Section of Fisheries produces individual fisheries management plans for every actively managed lake and stream resource in the state. In addition to fish population goals and objectives, these plans identify habitat actions unique to each waterbody that are needed or beneficial to sustain quality fisheries.

Our planning and evaluation model is similar to the US Fish and Wildlife Service's Strategic Habitat Conservation model in that it is composed of planning, implementation and evaluation phases in the traditional adaptive management framework. DNR

develops management plans based on assessment data for actively managed lakes and streams in the state. Management plans guide fish population management and identify opportunities for habitat protection, restoration, and enhancement. Additional strategic planning documents guide habitat management activities, and these are referenced above. Proposed projects are ranked using specific criteria. Acquisition scoring criteria follow the recommendations of the AMA Acquisition Planning Committee. Considerable quantitative measurements go into the criteria development for stream restoration projects such as fish survey data, watershed evaluation, and presence of state or federally listed species. Ranked projects are approved for implementation through an internal review process. Evaluation is an integral step and. for stream restorations, involves project monitoring of fish passage, water chemistry, and continued geomorphology surveys to evaluate projects. Similar evaluations are conducted for lakeshore enhancement projects to ensure projects are functioning as designed. From these evaluations research is driven to improve designs and continue development of future projects. We also use the research to inform professionals working on stream restoration from state, federal and private firms through a series of courses taught by the Stream Habitat Program to further stream restoration efforts.

#### **Relationship to Other Constitutional Funds**

The proposed habitat protection, restoration, and enhancement activities are most appropriately suited to the Outdoor Heritage Fund, although some activities will have additional secondary benefits to water quality (e.g., reduced nutrient and sediment loading). While DNR receives appropriations from the Clean Water Fund, these have been legislatively directed for such activities as data gathering, TMDL technical guidance and coordination, planning, monitoring and assessment work in support of TMDLs, and identifying non-source restoration and protection strategies. Some of these CWF activities could lead to the development of aquatic and riparian habitat projects that subsequently may be constitutionally eligible for Outdoor Heritage Fund implementation funding. DNR will ensure that OHF funds are applied to qualifying projects and will complement overall program budgets resulting in comprehensive protection, restoration, and enhancement delivery that benefits Minnesota's aquatic habitats.

#### **Relationship to Current Organizational Budget**

This program funding will be supplemental to traditional funding sources, and is of reasonable size given the scale of DNR's recent fiscal year expenditures. Though Outdoor Heritage Funds would be spread out over multiple years, below are approximate Fiscal Year 2009 expenditures (not including Bonding) as an example of what DNR spends in a given year:

Fiscal Year 2009 Approximate Expenditures, not including Bonding funds, were:

DNR - \$200 million
Ecological Resources Division - \$11.6 million
Fish and Wildlife Division - \$33.1 million
Forestry Division - \$25.5 million
Waters Division - \$33.4 million
This proposal represents slightly less than 9% of the DNR's FY09 expenditures from traditional funding sources.

Demonstrate how this funding and activity will supplement your current budget. The program activities included in this proposal are above and beyond program activity funded through DNR base budget appropriations. In addition to legislative appropriations from Game and Fish Fund and capital bonding, the Department actively pursues other funding from a variety of sources including LCCMR, federal grants and private foundation grants to achieve aquatic habitat program outcomes. These alternative sources of funding are less certain or predictable and, thus, are not part of the Department's base budget.

#### **Sustainability and Maintenance**

AMA acquisitions will be sustained through fee title ownership and perpetual easements held by the DNR. This is a long-term protection strategy. Long-term stewardship of fee title AMA lands is achieved through periodic and recurring monitoring of the property and boundaries for encroachment by adjoining property owners or for habitat management needs. Easement AMA lands, especially trout stream easements, additionally benefit from informal monitoring by the angling public and agency conservation partners.

River and stream restoration activities are designed to work with natural hydrology of the flowing systems so as to be durable and self-maintaining over time. Restoring natural channel function or mimicking natural riffles/rapids results in the desired habitat benefit but also provides perpetual self-maintenance.

Lakeshore enhancement activities will be sustained by the local units of government receiving grant funds. Routine maintenance will be accomplished by the local unit of government as part of an overall block grant agreement. Supplemental vegetation planting, watering of the restoration site and removal of invasive plant species are typical maintenance requirements during the early stages of restoration projects. A maintenance plan is required prior to project implementation as well as a 10-year maintenance agreement on all funded projects. Typically if a project is implemented and maintained for a 10-year period, the critical maintenance has been completed and long-term project success is likely.

#### Cost, schedule, and sources of funding

Future funding for DNR is determined by legislative appropriation therefore sources of funding cannot be adequately forecasted beyond the current biennium, however, the following costs and schedule are anticipated to result from program activities highlighted in this proposal:

- AMA costs to develop acquired parcels (signage, parking, fencing, demolition and removal of structures, habitat manipulations, and similar needs) are included in this request for funding. Routine maintenance of AMA parcels will be accomplished by Area Fisheries Managers as part of their public land management responsibilities. Periodic enhancements such as invasive species removal, prescribed burning, supplemental vegetation planting, shoreline stabilization and restoration, and similar activities will be accomplished through annual funding requests from a variety of funding sources including, but not limited to, Game and Fish Fund, Bonding, Gifts, Federal Sources, Environmental Trust Fund, and Outdoor Heritage Fund.
- Stream Restoration Program Stream restoration projects are designed to be self-maintaining and require no future investments.
- Shoreland Habitat Enhancement Shoreland enhancement projects typically require routine maintenance over a 10-year period to ensure long-term success. This maintenance will be conducted by the local unit of government.
- Dam Repair/Enhancement Dams will require periodic inspection and maintenance over time. Inspection is conducted by DNR field hydrologists according to established monitoring schedules. Routine maintenance may be required and will be accomplished through annual funding requests from a variety of funding sources including, but not limited to, Game and Fish Fund, Bonding, Gifts, Federal Sources, Environmental Trust Fund, and Outdoor Heritage Fund. The DNR presently has a backlog of dam maintenance needs statewide that are prioritized based on danger to life, damage to property, and other factors as established in Minnesota Statutes Chapter 103G.511, Subd. 12.

#### **Types of Projects**

#### Fee Acquisition Projects

| Will  | Will local government approval be sought prior to acquisition?   |                                      |                                |       |                |  |  |  |  |  |  |
|-------|--|--------------------------------------|--------------------------------|-------|----------------|--|--|--|--|--|--|
|       | Yes  | No, please explain  □ not applicable |                                |       |                |  |  |  |  |  |  |
| If no | If no, please explain here:  |                                      |                                |       |                |  |  |  |  |  |  |
| Cou   | Township and County support are usually obtained as part of the acquisition process. County Boards are typically notified after AMA parcels have been optioned and consistent with DNR policy. |                                      |                                |       |                |  |  |  |  |  |  |
| Is th | e land you plan  | to a                                 | equire free of any other perma | anent | protection?    |  |  |  |  |  |  |
|       | Yes  |                                      | No, please explain             |       | not applicable |  |  |  |  |  |  |
| If no | If no, please explain here:  |                                      |                                |       |                |  |  |  |  |  |  |

| Eas         | ement Acquisi   | ition   | <u>Projects</u> |  |         |   |  |  |  |  |
|-------------|---|---------|-----------------|--|---------|---|--|--|--|--|
| Will        | the eased land  | be o    | pen for pul     | olic use?  |         |   |  |  |  |  |
| $\boxtimes$ | Yes   |         | No, please      | e explain  |         | not applicable  |  |  |  |  |
| If no       | o, please explai  | n here  | э:              |  |         |   |  |  |  |  |
|             | •   | •       |                 | nt lands will be ope<br>onsistent with M.R                           |         | or angling, hunting, and other 0.0200.                                  |  |  |  |  |
| the         | Easements for stream channel restoration will provide for DNR management access as the primary easement interest acquired. Public use is a secondary interest that DNR will seek whenever possible. |         |                 |  |         |   |  |  |  |  |
| Will        | the conservation  | n eas   | sement be       | permanent?   |         |   |  |  |  |  |
| $\boxtimes$ | Yes   |         | No, please      | e explain  |         | not applicable  |  |  |  |  |
| If no       | o, please explai  | n here  | э:              |  |         |   |  |  |  |  |
| Res         | storation and E   | nhan    | cement P        | <u>rojects</u>   |         |   |  |  |  |  |
| Is th       | ne activity on pe   | rman    | ently prote     | ected land and/or p  | ublic   | waters?   |  |  |  |  |
|             | Yes   |         | No, please      | e explain  |         | not applicable  |  |  |  |  |
| If no       | o, please explai  | n here  | э:              |  |         |   |  |  |  |  |
|             | •   | •       |                 | Aquatic Managemogement Area (WM                                      |         | ea (AMA), Scientific and<br>State Forests?                              |  |  |  |  |
| $\boxtimes$ | Yes, which on   | es      |                 | No, please exp   | olain   | not applicable  |  |  |  |  |
| If so       | o, please indicat   | e whi   | ich ones:       |  |         |   |  |  |  |  |
| Son<br>land |   | storat  | ion and en      | hancement activiti   | es will | l occur on the following AMA  |  |  |  |  |
| <br>        | Cannon River A<br>Eagle Lake AM<br>Eagle Creek AM<br>Francis Lake AM  | 4<br>1A |                 | Games Lake AMA<br>Gemini AMA<br>Headquarters AMA<br>Miller Creek AMA |         | Nest Lake AMA<br>N.Br. Whitewater AMA<br>Rush Lake AMA<br>Stav Lake AMA |  |  |  |  |

### **Accomplishment Timeline**

| Activity                   | Milestone                       | Date                     |
|----------------------------|---------------------------------|--------------------------|
| AMA Acquisition            | Acquire priority fee title &    | June 30.2012             |
|                            | easements – 23.0 miles          |                          |
|                            | Acquire priority fee title &    | June 30, 2013            |
|                            | easements – 11.5 miles          |                          |
|                            | Acquire priority fee title &    | June 30, 2014            |
|                            | easements – 3.9 miles           |                          |
| Stream Habitat Restoration | Pre-design project plans        | June 30, 2012-2014       |
| & Enhancement              | completed – 2 projects/yr       |                          |
|                            | Completed designs ready         | June 30, 2012-2014       |
|                            | for construction – 1 proj/yr    |                          |
|                            | Completed major                 | June 30, 2015            |
|                            | construction activities – 1-6   |                          |
|                            | proj from prioritized project   |                          |
|                            | list, restoring connectivity to |                          |
|                            | up to 690 river miles           |                          |
|                            | Enhanced 3.2 mi trout           | June 30, 2014            |
|                            | streams                         |                          |
|                            | Complete cost-share of          | June 30, 2014            |
|                            | culvert replacement on          |                          |
|                            | high-priority stream            |                          |
|                            | crossings – 1-2 proj/yr         |                          |
| Lake Habitat Enhancement   | Reconstruct dam – Fish          | June 30, 2014            |
|                            | Lake                            |                          |
|                            | Solicit list of potential       | Spring 2011              |
|                            | shoreline projects on public    |                          |
|                            | lands                           |                          |
|                            | Review lists and making         | August 2011              |
|                            | funding determinations          |                          |
|                            | Award and develop grants        | September – October 2011 |
|                            | Develop and approve plans       | December 2011 – March    |
|                            |                                 | 2012                     |
|                            | Implement Plans                 | April 2012 – June 2014   |

Attachments: [Attach these documents to the web application form.]

- A. Budget
- **B. Proposed Outcome Tables 1-5**
- C. Map
- D. Parcel List

#### Attachment A. Budget Spreadsheet

#### Link Here to definitions of the budget items below.

**Total Amount of Request** \$ 17,815,000 From page 1 on the funding form.

#### **Personnel**

|                              | FTE | Over # of years | LSOHC Request | Anticipated Cash<br>Leverage | Cash Leverage Source | Total         |
|------------------------------|-----|-----------------|---------------|------------------------------|----------------------|---------------|
| Position breakdown here      |     |                 |               |                              |                      |               |
| Field Acquisition Specialist | 1   | 3               | \$<br>185,088 |                              |                      | \$<br>185,088 |
| Field Acquisition Specialist | 2   | 2               | \$<br>-       | \$<br>200,000                | GLRI pass thru grant | \$<br>200,000 |
| River Ecologist              | 1   | 3               | \$<br>260,088 |                              |                      | \$<br>260,088 |
| Shoreland Restoration Spec   | 1   | 3               | \$<br>185,088 |                              |                      | \$<br>185,088 |
|                              |     |                 |               |                              |                      | \$<br>-       |
|                              |     |                 |               |                              |                      | \$<br>-       |
|                              |     |                 |               |                              |                      | \$<br>-       |
| Total                        |     | ·               | \$<br>630,264 | \$<br>200,000                | \$ -                 | \$<br>830,264 |

#### Budget and Cash Leverage (All your LSOHC Request Funds must be direct to and necessary for program outcomes.)

Please describe how you intend to spend the requested funds.

Budget Item
Personnel - auto entered from above
Contracts
Fee Acquisition w/ PILT (breakout in table 6 & 7)

Fee Acquisition w/o PILT (breakout in table 6 & 7)

Easement Acquisition Easement Stewardship

Travel (in-state)

**Professional Services** 

**DNR Land Acquisition Costs** 

Other

Capital Equipment
Other Equipment/Tools
Supplies/Materials

| LSOHC Request    | Anticipated Cash<br>Leverage | Cash Leverage Source  | Total            |
|------------------|------------------------------|-----------------------|------------------|
| \$<br>630,264    | \$<br>200,000                | \$ -                  | \$<br>830,264    |
| \$<br>6,840,265  | \$<br>525,000                | SHRP grant match      | \$<br>7,365,265  |
| \$<br>5,400,000  | \$<br>2,014,200              | donated cash/value    | \$<br>7,414,200  |
|                  |                              |                       | \$<br>-          |
| \$<br>3,500,000  | \$<br>1,410,500              | donated cash/value    | \$<br>4,910,500  |
|                  |                              |                       | \$<br>-          |
| \$<br>140,000    |                              |                       | \$<br>140,000    |
| \$<br>697,691    |                              |                       | \$<br>697,691    |
|                  |                              |                       | \$<br>-          |
|                  |                              |                       | \$<br>5,164,999  |
|                  |                              |                       | \$<br>-          |
|                  |                              |                       | \$<br>-          |
| \$<br>606,780    | \$<br>4,558,219              | MRBI / LGU cost-share | \$<br>5,164,999  |
| \$<br>17,815,000 | \$<br>8,707,919              | \$ -                  | \$<br>26,522,919 |

#### **Attachment B. Proposed Outcome Tables**

Only enter data in the outlined cells

Table 1 and Table 3 column totals should be the same AND Table 2 and Table 4 column totals should be the same

If your project has lakes or shoreline miles instead of land acres, convert miles to acres for Tables 1 and 3 using the following conversion:

Lakeshore = 6 acres per lakeshore mile / Stream & River Shore = 12 acres per linear mile, if both sides

#### Table 1. Acres by Resource Type

Describe the scope of the project in acres (use conversion above if needed)

|         | Wetlands | Prairies | Forest | Habitats | Total              |
|---------|----------|----------|--------|----------|--------------------|
| Restore |          |          |        | 10       | <b>47.6</b> 1047.6 |
| Protect |          |          |        | 1        | 1774               |
| Enhance |          |          |        | 81       | <i>51.4</i> 8151.4 |
| Total   |          | 0        | 0      | 0 1      | 0973               |

Total Acres (sum of Total column) Total Acres (sum of Total row)

10973 These two cells should 10973 be the same figure.

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

|         | Wetlands |   | Prairies |   | Forest |   | Hab | itats      | Total |            |
|---------|----------|---|----------|---|--------|---|-----|------------|-------|------------|
| Restore |          |   |          |   |        |   | \$  | 1,588,712  | \$    | 1,588,712  |
| Protect |          |   |          |   |        |   | \$  | 10,124,000 | \$    | 10,124,000 |
| Enhance |          |   |          |   |        |   | \$  | 6,102,288  | \$    | 6,102,288  |
| Total   | \$       | - | \$       | - | \$     | - | \$  | 17,815,000 | Ī     |            |

Total Dollars (sum of Total column) Total Dollars (sum of Total row)

17,815,000 These two cells should 17,815,000 be the same figure. \$

Check to make sure this amount is the same

as the Funding Request Amount on page 1 of Main Funding Form.

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

|         | Metro/Urban | Forest/Prairie | SE Forest | Prairie | Northern Forest | Total  |
|---------|-------------|----------------|-----------|---------|-----------------|--------|
| Restore |             |                |           | 1047.6  |                 | 1047.6 |
| Protect | 81          | 341            | 239       | 175     | 938             | 1774   |
| Enhance | 26.2        | 1154.6         | 330.9     | 6022.6  | 617.1           | 8151.4 |
| Total   | 107.2       | 1495.6         | 569.9     | 7245.2  | 1555.1          |        |

Total Acres (sum of Total column) Total Acres (sum of Total row) Total Acres from Table 1.

10973 These three cells 10973 should be the same

#### **Attachment B. Proposed Outcome Tables**

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

Restore **Protect Enhance Total** 

| Metr | o/Urban | Fore | est/Prairie | SE F | orest     | Prai | rie       | No | rthern Forest | Total |            |
|------|---------|------|-------------|------|-----------|------|-----------|----|---------------|-------|------------|
|      |         |      |             |      |           | \$   | 1,588,712 |    |               | \$    | 1,588,712  |
| \$   | 223,278 | \$   | 2,203,083   | \$   | 2,325,723 | \$   | 895,826   | \$ | 4,476,090     | \$    | 10,124,000 |
| \$   | 236,994 | \$   | 674,239     | \$   | 1,202,389 | \$   | 3,563,799 | \$ | 424,867       | \$    | 6,102,288  |
| \$   | 460,272 | \$   | 2,877,322   | \$   | 3,528,112 | \$   | 6,048,337 | \$ | 4,900,957     |       |            |

Total Dollars (sum of Total column)

Total Dollars (sum of Total row)

17,815,000 be the same figure. \$

17,815,000 These two cells should

Check to make sure these amounts are the same

as the Funding Request Amount on page 1 of Main Funding Form.

#### **Table 5. Target Lake/Stream/River Miles**

798.1 # miles of Lakes / Streams / Rivers Shoreline

#### Table 6. Acquisition by PILT Status (enter information in acres)

**Acquired in Fee** with State PILT Liability **Acquired in Fee** without State PILT Liability **Permanent Easement** 

**NO State PILT Liability** 

| Wetlands | Prairies | Forests | Habitats | Total |
|----------|----------|---------|----------|-------|
|          |          |         |          |       |
|          |          |         | 1000     | 1000  |
|          |          |         |          |       |
|          |          |         |          | 0     |
|          |          |         |          |       |
|          |          |         | 774      | 774   |

#### Table 7. Estimated Value of Acquisition by PILT Status (enter information in dollars)

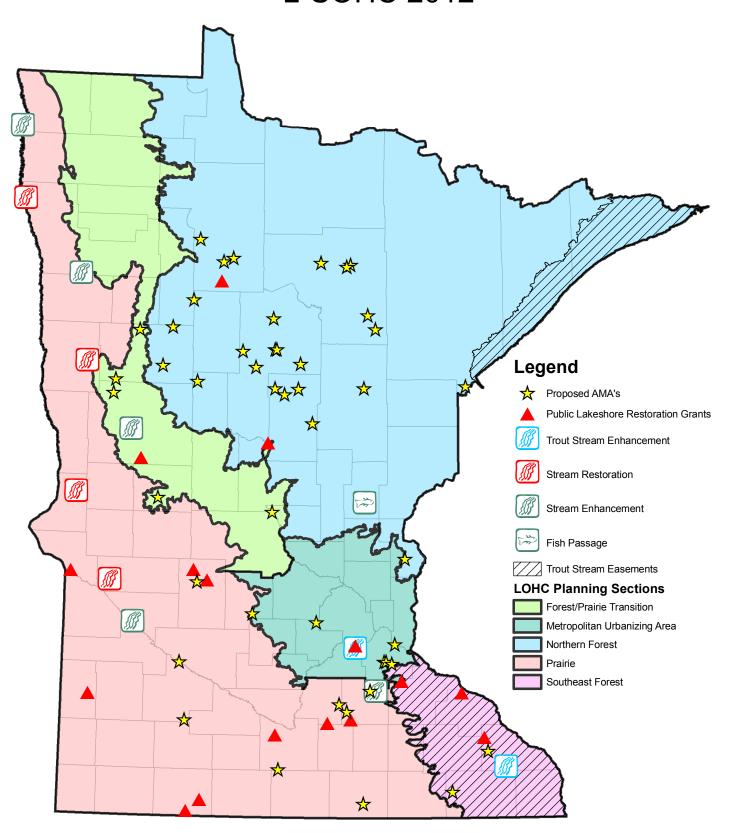
**Acquired in Fee** with State PILT Liability **Acquired in Fee** 

without State PILT Liability

**Permanent Easement NO State PILT Liability** 

| Wetlands | Prairies | Forests | Habitats        | Total |           |  |
|----------|----------|---------|-----------------|-------|-----------|--|
|          |          |         |                 |       |           |  |
|          |          |         | \$<br>8,785,800 | \$    | 8,785,800 |  |
|          |          |         |                 |       |           |  |
|          |          |         |                 | \$    | -         |  |
|          |          |         |                 |       |           |  |
|          |          |         | \$<br>5,593,000 | \$    | 5,593,000 |  |

# DNR Aquatic Habitat Program L-SOHC 2012



<sup>\*</sup> Fish passage cost-share with LGU's for high priority streams, statewide

#### Attachment D. Parcel List

## Program Title: DNR Aquatic Habitat Program Revised: 07/15/2010

| Martine   Mart         | Revised: 07/15/2010                 |            | _        |       |           |         |          |            |             |                         | 1        |
|--|-------------------------------------|------------|----------|-------|-----------|---------|----------|------------|-------------|-------------------------|----------|
| Marchard State MAN, P13   Beabar   142   37   2   6   1275000   7-5   186   186   7-5            | Parcel Name                         | County     | Township | Range | Direction | Section | TRDS     | # of acres | Cost to OH  | Description             | Activity |
|  |                                     | Becker     | 142      | 37    | 2         | 5       | 14237205 | 7.6        |             |                         | Р        |
| Bine Cores   Decision   Decisio         | Balm Lake WMA                       | Beltrami   | 150      |       |           | 22      |          | 153        | \$ 500,00   | 0 Fee Title             | Р        |
| Broad Ower AM AP   Common  | •                                   |            |          |       |           |         |          |            |             |                         | P        |
| Came Outside AMA. P2   |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Control Montany MAN   Control MAN   Control Montany MAN   Contro         |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Commune AMA, P2  |                                     | -          |          |       |           |         |          |            |             |                         | Р        |
| Page            | Camp Wheatley AMA                   | Carver     | 117      | 25    |           | 11      | 11725211 | 100        | \$ 800,0    | 0 Easement              | P        |
| Page 1   | ·                                   |            |          |       |           |         |          |            |             |                         | P        |
| Pose   | •                                   |            |          |       |           |         |          |            |             |                         | P        |
| Poste Land AMA, P1   | · · · · ·                           |            |          |       |           | •       |          |            |             |                         | P        |
| Conference   MAN   Property   P         |                                     |            |          |       |           |         |          |            |             |                         | P        |
| General AMA  | Flowage Lake AMA, P2                | Aitkin     | 49       | 23    | 2         | 30      | 4923230  | 50         | \$ 400,00   | 0 Fee Title             | P        |
| Common   C         | •                                   | _          |          |       |           |         |          |            |             |                         | P        |
| Semirate Jack AAAA   Pate   1800   9   |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Monation Lake AMA, P1   Monation Lake AMA, P2   Gas's   19   30   2   10   95/2510   51   5   30,000   Fee Tills   7   |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Monethouse MAMA, P2  |                                     | -          |          |       |           |         |          |            |             |                         | P        |
| Lithe Stand AMA, PT 233  |                                     | Cass       | 139      | 30    | 2         | 16      |          | 5.1        |             |                         | Р        |
| Direct Include Lake AMA, P1  | La Salle Lake AMA                   | Hubbard    | 145      | 35    | 2         | 30      | 14535230 | 154        | \$ 1,617,00 | 0 Fee Title             | Р        |
| Institution AMA, P1  | •                                   |            |          |       |           |         |          |            |             |                         | P        |
| Musual Lank AMA, P1  | •                                   |            |          |       |           |         |          |            |             |                         | P        |
| Misselfe AMA   |                                     | •          |          |       |           |         |          |            |             |                         | P        |
| Sandhal Al-Al   Silvan   172   29   2   25   1272025   66   5   00,000   Fee Title   P   |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Seal Record MAA  |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Spring Broad AMA P.    Rome   18.0          |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Spring Maley Harbery MAN   | South Br. Vermillion                | Dakota     | 114      | 18    | 2         | 29      | 11418229 | 65.6       | \$ 450,00   | 0 Fee Title             | P        |
| Spring MAMP   Machemy AMAP   Filmone   103   13   2   27   1731-327   27   8   80,000   Fee Tale   P   P   Surfise Lake AMA   Chisagp   34   20   2   17   3402/17   46   8   300,000   Fee Tale   P   P   Surfise Lake AMAP   Chisagp   36   2   27   1036/27   46   8   300,000   Fee Tale   P   P   Tallus Elake AMAP   Chisagp   36   2   27   1036/27   46   8   300,000   Fee Tale   P   P   Tallus Elake AMAP   Chisagp   36   2   27   1036/27   46   8   300,000   Fee Tale   P   P   Tallus Elake AMAP   Chisagp   36   2   27   1036/27   36   37   37   37   37   37   37   3  | •                                   |            |          |       |           |         |          |            |             |                         | P        |
| Start Lake AMA   | • •                                 |            |          |       |           |         |          |            |             |                         | Р        |
| Surrise Lake AMA   |                                     |            |          |       |           |         |          |            |             |                         | Ι'       |
| Sanborn MAM  |                                     | •          |          |       |           |         |          |            |             |                         | Ι'       |
| Talbus inland AMA P  |                                     | -          |          |       |           |         |          |            |             |                         | P        |
| Total Shame Raments  |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Trust   Trus         | Ten Mile Lake AMA, P4               | Cass       | 140      | 31    | 2         | 5       | 14031205 | 32         | \$ 100,00   | 0 Fee Title             | P        |
| Trutle Lake AMA    Belirami   148   33   2   15   1483321   19.2   2 00,000   Fee Tible   P  | •                                   |            | 139      | 38    | 2         | 16      | 13938216 |            |             |                         | P        |
|  |                                     | •          | 4.40     | 00    |           | 45      | 14000045 |            |             |                         | P        |
| Vermillon River AMA, P6  |                                     |            |          |       |           |         |          |            |             |                         | Р        |
| Vermillor River AMA, PS  | • •                                 | -          |          |       |           |         |          |            |             |                         | P        |
| Washbur Lake AMA         Cass         139         26         2         5         13982055         198         8         80,000         Fee Title         P           Whibapring Righe AMA, P2         Redwood         114         38         2         16         14420216         14         5,00,000         Fee Title         P           Whiba Earth AMA         Becker         142         2         0         16         1428221         18         8,00,000         Fee Title         P           Woman Lake AMA, P8         Cass         141         28         2         131         14182231         28         5,00,000         Fee Title         P           Mustinka River         Cass         141         28         2         18         1526521         2         5,00,000         Fee Title         P           Mustinka River         Card March         City         17         2         2         12         1245251         400         55,000         Stram Restoration         R           Sand Hill River         Chard         131         2         12         12         131         141202         141         1120         2         12         14         1120         2         12 <td></td> <td>P</td>   |                                     |            |          |       |           |         |          |            |             |                         | P        |
| White Earth AMA   Becker   142   40   2   161   14240216   14   5   300,00   Fee Title   P   Woman Lake AMA, P8   Cass   141   28   2   31   14128211   25   5   400,00   Fee Title   P   Woman Lake AMA, P9   Cass   141   28   2   32   14128231   25   5   500,000   Fee Title   P   Woman Lake AMA, P9   Cass   141   28   2   32   14128231   25   5   5,000,00   Fee Title   P   Woman Lake AMA, P9   Cass   141   28   2   32   14128231   25   5   5,000,00   Fee Title   P   Woman Lake AMA, P9   Cass   141   28   2   32   32   14128231   25   5   5,000,00   Steam Restoration   R   Red River of the North - Drayton Dam   Kittison   169   50   2   18   15865218   408   5   5,000,00   Steam Enhancement   E   Cannon River - Malt-O-Meal Dam   River - River - Malt-O-Meal Dam   River - River - Malt-O-Meal Dam   River - River         | Washburn Lake AMA                   | Cass       | 139      | 26    | 2         | 5       |          |            |             |                         | Р        |
| Moman Lake AMA, P8   | Whispering Ridge AMA, P2            | Redwoood   | 114      | 36    | 2         | 30      | 11436230 | 408        | \$ 1,500,00 | 0 Fee Title             | P        |
| Moman Lake AMA, P9   |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Mustinka River   Tavarese   128   45   2   18   1248/218   228   5,500,000   Stream Restoration   R   Red River of the North - Drayton Dam   Kittson   159   50   2   18   15950218   4800   \$ 1,000,000   Stream Enhancement   E   Cannon River- Malt-O-Meal Dam   Rice   111   20   2   1   11120201   20   5   500,000   Stream Enhancement   E   Buffalo River Halwey   Clay   139   45   2   2   1   11120201   20   5   500,000   Stream Enhancement   E   Buffalo River Halwey   Clay   139   45   2   2   1   13945212   18   5   500,000   Stream Restoration   R   Grand Marais Creek   Polik   153   500   2   2   2   153   134123   118   5   500,000   Stream Restoration   R   Clay   River Phelps Mill Dam   Cliter Tail        |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Red River of the North - Drayton Dame  |                                     |            |          |       |           |         |          |            |             |                         | P        |
| Sand Hill River   Polk   147   45   2   29   14745229   1188   2,000,000   Stream Enhancement   E   E   E   E   E   E   E   E   E  |                                     |            |          |       |           |         |          |            |             |                         |          |
| Buffalo River - Hawley   Clay   139   45   2   12   13945212   18   \$ 1,000,000   Stream Restoration   R   Grand Marais Creek   Polk   153   500   2   22   15350222   72   \$ 4,750,000   Stream Restoration   R   Formme de Terre River - Phelps Mil Dam   Cliter Tail   134   41   2   2   35   13441235   1046. \$ 500,000   Stream Restoration   R   Fish Lake Dam   Cliter Tail   134   41   2   2   31   12142231   1017.6 \$ 500,000   Stream Restoration   R   Fish Lake Dam   Cliter All   134   24   2   2   31   12142231   1017.6 \$ 500,000   Stream Restoration   R   Fish Lake Dam   Cliter Tail   134   2   2   31   12142231   1017.6 \$ 500,000   Stream Restoration   R   Fish Lake Dam   Cliter Tail   134   2   2   31   12142231   1017.6 \$ 500,000   Stream Restoration   R   Fish Lake Dam   Cliter Tail   134   2   2   31   12142231   1017.6 \$ 500,000   Stream Restoration   R   Fish Lake Dam   Cliter Tail   134   2   2   31   12142231   1017.6 \$ 500,000   Stream Restoration   R   Fish Lake Dam   Cliter Tail   134   2   2   31   3142231   1017.6 \$ 500,000   Stream Restoration   R   Fish Lake Dam   Cliter Tail   134   2   2   3   3024223   303   25   25   25   200,000   Trout stream enhancement   E   Formich of the Des Moines River Dam Removal Site- Wayside Park   Jackson   101   36   2   2   2   2   2   2   2   2   2  | •                                   |            |          |       |           |         |          |            |             |                         |          |
| Grand Marais Creek         Polk         153         50         2         22         125 350222         72         \$ 475,000         Stream Restoration         R           Otter Tail River-Phelps Mill Dam         Otter Tail         1134         41         2         35         13441235         1046.4         \$ 500,000         Stream Restoration         R           Pomme de Terre River         Swift         121         42         2         31         12142231         1016.6         \$ 500,000         Stream Restoration         R           Fish Lake Dam         Kanabec         39         24         2         18         1152128         50         \$ 100,000         Trout stream enhancement         E           Eagle Creek         Scott         115         21         9         18         1152128         50         \$ 100,000         Trout stream enhancement         E           Rush Creek AMA         Winna         108         8         2         132         10828232         0.4         \$ 47,747         Shoreland enhancement         E           Rush Care AMA         Eror for the Des Moines River Dam Removal Site - Wayside Park         Jackson         101         36         2         23         10136223         0.5         \$ 27,747  | Cannon River- Malt-O-Meal Dam       | Rice       | 111      | 20    | 2         | 1       | 11120201 | 204        | \$ 500,00   | 0 Stream Enhancement    | E        |
| Otter Tail River- Phelps Mill Dam  | Buffalo River- Hawley               |            |          |       |           |         |          |            |             |                         |          |
| Pomme de Terre River   Swift   121   42   2   31   12142231   1017.6   \$ 50,000   Stream Restoration   R Fish Lake Dam   Kanabac   39   24   2   23   3924223   503   \$ 250,000   Fish passage & maintenance   E Eagle Creek   Scott   115   21   2   181   151218   56   \$ 100,000   Trout stream enhancement   E Rush Creek AMA   Winona   105   8   2   1,19,20   10508219   20   \$ 250,000   Trout stream enhancement   E Robinson Park -City of Lake Crystal   Blue Earth   108   28   2   1082832   0.4   \$ 47,747   Shoreland enhancement   E Rush Lake AMA Restoration   Jackson   101   35   2   23   10136223   0.5   \$ 52,747   Shoreland enhancement   E Rush Lake AMA Restoration   Jackson   101   36   2   23   10136223   0.5   \$ 27,747   Shoreland enhancement   E Rush Lake AMA Restoration   Jackson   101   11   44   2   2   29   1114229   0.5   \$ 27,747   Shoreland enhancement   E Rush Lake AMA Restoration   Jackson   111   12   2   8,9   1111208   25   27,643   Shoreland enhancement   E Rush Lake AMA Restoration   Jackson   101   31   22   31   3132933   31   329   32   33   332933   31   329   33   332933   31   329   33   332933   31   32933   3293 |                                     |            |          |       |           |         |          |            |             |                         |          |
| Fish Lake Dam  | ·                                   |            |          |       |           |         |          |            |             |                         | l l      |
| Eagle Creek         Scott         115         21         2         18         11521218         5.6         \$ 100,000         Trout stream enhancement         E           Rush Creek AMA         Winona         105         8         2         1,19,20, 10508219         20         \$ 250,000         Trout stream enhancement         E           Robinson Park - City of Lake Crystal         Blue Earth         108         28         2         32         10828232         0.4         \$ 47,747         Shoreland enhancement         E           West Fork of the Des Moines River Dam Removal Site - Wayside Park         Jackson         101         36         2         24         10235224         0.8         \$ 52,747         Shoreland enhancement         E           Rush Lake AMA Restoration         Jackson         101         36         2         23         10136223         0.5         \$ 27,747         Shoreland enhancement         E           Stay Lake AMA Restoration         Goodhue         112         17,18         2         7;12         112127207         5.5         \$ 27,683         Shoreland enhancement         E           Miller Creek AMA         Washash         111         12         2         8,9         1111208         4.4         \$ 22,583  |                                     |            |          |       |           |         |          |            |             |                         |          |
| Rush Creek AMA   Winona   105   8   2   1,19,20, 10508219   20   \$ 250,000   Trout stream enhancement   E   Robinson Park -City of Lake Crystal   Blue Earth   108   28   2   32   10828232   0.4   \$ 47,747   Shoreland enhancement   E   West Fork of the Des Moines River Dam Removal Site - Wayside Park   Jackson   101   36   2   23   10136223   0.5   \$ 27,747   Shoreland enhancement   E   Stay Lake AMA Restoration   Jackson   101   36   2   29   11144229   0.5   \$ 27,747   Shoreland enhancement   E   Stay Lake AMA Restoration   Lincoln   111   44   2   29   11144229   0.5   \$ 27,747   Shoreland enhancement   E   Stay Lake AMA Restoration   Lincoln   111   12   2   39   1111208   39   39   39   39   39   39   39   3   |                                     |            |          |       |           |         |          |            |             |                         |          |
| West Fork of the Des Moines River Dam Removal Site - Wayside Park         Jackson         102         35         2         24         10235224         0.8         \$ 52,747         Shoreland enhancement         E           Rush Lake AMA Restoration         Jackson         101         36         2         23         10136223         0.5         \$ 27,747         Shoreland enhancement         E           Stay Lake AMA Restoration         Lincoln         111         44         2         29         11142209         0.5         \$ 27,747         Shoreland enhancement         E           Gemini AMA         Goodhue         112         17,18         2         7,12         11127207         5.5         \$ 27,683         Shoreland enhancement         E           Miller Creek AMA         Wabasha         111         12         2         8,9         11112208         4.4         \$ 22,583         Shoreland enhancement         E           North Branch of Whitewater River AMA         Winona         107         10         2         5         10710205         5.0         \$ 23,483         Shoreland enhancement         E           Mississippi River - Crow Wing State Park         Crow Wing         133         29         2         33         13329233         1.1   | •                                   |            |          |       |           |         |          |            |             |                         |          |
| Rush Lake AMA Restoration   Jackson   101   36   2   23   10136223   0.5   \$ 27,747   Shoreland enhancement   E   Stay Lake AMA Restoration   Lincoln   111   44   2   29   11144229   0.5   \$ 27,747   Shoreland enhancement   E   Gemini AMA   Goodhue   112   17; 18   2   7;12   11217207   5.5   \$ 27,683   Shoreland enhancement   E   Miller Creek AMA   Wabasha   111   12   2   8,9   1111208   4.4   \$ 22,583   Shoreland enhancement   E   Mississippi River - Crow Wing State Park   Crow Wing   133   29   2   33   13329233   1.1   \$ 23,483   Shoreland enhancement   E   Games Lake AMA restoration   Kandiyohi   122   35   2   32   12235232   0.3   \$ 40,247   Shoreland enhancement   E   Rest Lake Islands AMA   Kandiyohi   121   34   2   28   12134228   1.1   \$ 97,747   Shoreland enhancement   E   Eagle Lake?   Otter tail   131   40   2   15   13140215   0.2   \$ 8,385   Shoreland enhancement   E   Francis Lk AMA   Lesuer   109   24   2   35   10924235   8.0   \$ 22,747   Shoreland enhancement   E   Cannon River AMA   Big Stone   121   46   2   11   12146211   3.0   \$ 27,747   Shoreland enhancement   E   City of Bemidji   Beltrami   146   33   2   4   14633434   5.0   \$ 26,383   Shoreland enhancement   E   Crow River   Numerous   E   E   E   E   E   E   E   E   E  | Robinson Park -City of Lake Crystal | Blue Earth | 108      | 28    | 2         | 32      | 10828232 | 0.4        | \$ 47,74    | 7 Shoreland enhancement | E        |
| Stay Lake AMA Restoration         Lincoln         111         44         2         29         1114229         0.5         \$ 27,747         Shoreland enhancement         E           Gemini AMA         Goodhue         112         17; 18         2         7;12         11217207         5.5         \$ 27,683         Shoreland enhancement         E           Miller Creek AMA         Wabasha         111         12         2         8,9         1111208         4.4         \$ 22,583         Shoreland enhancement         E           North Branch of Whitewater River AMA         Winona         107         10         2         5         10710205         5.0         \$ 25,383         Shoreland enhancement         E           Mississippi River - Crow Wing State Park         Crow Wing         133         29         2         33         13329233         1.0         \$ 23,483         Shoreland enhancement         E           Games Lake AMA restoration         Kandiyohi         122         35         2         32         12235232         0.3         40,244         Shoreland enhancement         E           Nest Lake Islands AMA         Kandiyohi         121         34         2         28         121340215         0.2         \$ 8,385         Shorelan   | •                                   |            |          |       |           |         |          |            |             |                         |          |
| Gemini AMA         Goodhue         112         17; 18         2         7;12         11217207         5.5         \$ 2,683         Shoreland enhancement         E           Miller Creek AMA         Wabasha         111         12         2         8,9         1111208         4.4         \$ 22,583         Shoreland enhancement         E           North Branch of Whitewater River AMA         Winona         107         10         2         5         1071005         5.0         \$ 25,383         Shoreland enhancement         E           Mississippi River - Crow Wing State Park         Crow Wing         133         29         2         33         13329233         1.1         \$ 23,483         Shoreland enhancement         E           Games Lake AMA restoration         Kandiyohi         122         35         2         32         12235232         0.3         \$ 40,247         Shoreland enhancement         E           Regle Lake Plands AMA         Kandiyohi         121         34         2         28         12134228         1.1         97,747         Shoreland enhancement         E           Eagle Lake?         Otter tail         131         40         2         15         13140215         0.2         \$ 8,385         Shoreland enhancement   |                                     |            |          |       |           |         |          |            |             |                         |          |
| Miller Creek AMA         Wabasha         111         12         2         8,9         1111208         4.4         \$ 22,583         Shoreland enhancement         E           North Branch of Whitewater River AMA         Winona         107         10         2         5         10710205         5.0         \$ 25,383         Shoreland enhancement         E           Mississippi River - Crow Wing State Park         Crow Wing         133         29         2         33         13329233         1.1         \$ 23,483         Shoreland enhancement         E           Games Lake AMA restoration         Kandiyohi         122         35         2         32         12235232         0.3         \$ 40,247         Shoreland enhancement         E           Mest Lake Islands AMA         Kandiyohi         121         34         2         28         12134228         1.1         97,747         Shoreland enhancement         E           Eagle Lake?         Otter tail         131         40         2         15         13140215         0.2         \$ 8,385         Shoreland enhancement         E           Francis Lk AMA         LeSueur         109         24         2         35         10924235         8.0         \$ 27,747         Shoreland enhancement   | ·                                   |            |          |       |           |         |          |            |             |                         | l l      |
| North Branch of Whitewater River AMA         Winona         107         10         2         5         10710205         5.0         \$ 25,383         Shoreland enhancement         E           Mississippi River - Crow Wing State Park         Crow Wing         133         29         2         33         13329233         1.1         \$ 23,483         Shoreland enhancement         E           Games Lake AMA restoration         Kandiyohi         121         34         2         28         12235232         0.3         \$ 40,247         Shoreland enhancement         E           Kest Lake Islands AMA         Kandiyohi         121         34         2         28         12134228         1.1         \$ 97,747         Shoreland enhancement         E           Eagle Lake?         Otter tail         131         40         2         15         13140215         0.2         8,385         Shoreland enhancement         E           Francis Lk AMA         LeSueur         109         24         2         35         10924235         8.0         \$ 22,747         Shoreland enhancement         E           Cannon River AMA         Rice         109         22         2         23         10922223         20.0         \$ 27,747         Shoreland enhancement </td <td></td>  |                                     |            |          |       |           |         |          |            |             |                         |          |
| Mississippi River - Crow Wing State Park         Crow Wing         133         29         2         33         13329233         1.1         \$ 23,483         Shoreland enhancement         E           Games Lake AMA restoration         Kandiyohi         122         35         2         32         12235232         0.3         \$ 40,247         Shoreland enhancement         E           Nest Lake Islands AMA         Kandiyohi         121         34         2         28         12134228         1.1         \$ 97,747         Shoreland enhancement         E           Eagle Lake?         Otter tail         131         40         2         15         13140215         0.2         \$ 8,385         Shoreland enhancement         E           Francis Lk AMA         LeSueur         109         24         2         35         10924235         8.0         \$ 22,747         Shoreland enhancement         E           Cannon River AMA         Rice         109         22         2         23         10924235         8.0         \$ 27,747         Shoreland enhancement         E           HQ AMA         Big Stone         121         46         2         11         12146211         3.0         \$ 26,383         Shoreland enhancement         E   |                                     |            |          |       |           |         |          |            |             |                         |          |
| Games Lake AMA restoration         Kandiyohi         122         35         2         32         12235232         0.3         \$ 40,247         Shoreland enhancement         E           Nest Lake Islands AMA         Kandiyohi         121         34         2         28         12134228         1.1         \$ 97,747         Shoreland enhancement         E           Eagle Lake?         Otter tail         131         40         2         15         13140215         0.2         \$ 8,385         Shoreland enhancement         E           Francis Lk AMA         LeSueur         109         24         2         35         10924235         8.0         \$ 22,747         Shoreland enhancement         E           Cannon River AMA         Rice         109         22         2         23         10924223         20.0         \$ 27,747         Shoreland enhancement         E           HQ AMA         Big Stone         121         46         2         11         12146211         3.0         2 4,747         Shoreland enhancement         E           City of Bemidji         Beltrami         146         33         2         4         14633434         5.0         \$ 26,383         Shoreland enhancement         E <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  |                                     |            |          |       |           |         |          |            |             |                         |          |
| Eagle Lake?         Otter tail         131         40         2         15         13140215         0.2         \$ 8,385         Shoreland enhancement         E           Francis Lk AMA         LeSueur         109         24         2         35         10924235         8.0         \$ 22,747         Shoreland enhancement         E           Cannon River AMA         Rice         109         22         2         23         10922223         20.0         \$ 27,747         Shoreland enhancement         E           HQ AMA         Big Stone         121         46         2         11         12146211         30         \$ 24,747         Shoreland enhancement         E           City of Bemidji         Beltrami         146         33         2         4         14633434         5.0         \$ 91,383         Shoreland enhancement         E           Cannon River         Rice and Goodhue         F         F         20.0         \$ 91,383         Shoreland enhancement         E           Crow River         Numerous         F         F         5.0         \$ 107,747         Shoreland enhancement         E   |                                     | J          |          |       |           |         |          |            |             |                         | E        |
| Francis Lk AMA         LeSueur         109         24         2         35         10924235         8.0         \$ 27,747         Shoreland enhancement         E           Cannon River AMA         Rice         109         22         2         23         1092223         20.0         \$ 27,747         Shoreland enhancement         E           HQ AMA         Big Stone         121         46         2         11         12146211         3.0         \$ 24,747         Shoreland enhancement         E           City of Bemidji         Beltrami         146         33         2         4         14633434         5.0         \$ 26,383         Shoreland enhancement         E           Cannon River         Rice and Goodhue         F         20.0         \$ 91,383         Shoreland enhancement         E           Crow River         Numerous         F         F         20.0         \$ 107,747         Shoreland enhancement         E   |                                     | •          |          |       |           |         |          |            |             |                         |          |
| Cannon River AMA         Rice         109         22         2         23         1092223         20.0         \$ 27,747         Shoreland enhancement         E           HQ AMA         Big Stone         121         46         2         11         12146211         3.0         \$ 24,747         Shoreland enhancement         E           City of Bemidji         Beltrami         146         33         2         4         14633434         5.0         \$ 26,383         Shoreland enhancement         E           Cannon River         Rice and Goodhue         F         20.0         \$ 91,383         Shoreland enhancement         E           Crow River         Numerous         F         20.0         \$ 107,747         Shoreland enhancement         E   | <del>-</del>                        |            |          |       |           |         |          |            |             |                         |          |
| HQ AMA         Big Stone         121         46         2         11         12146211         3.0         \$ 24,747         Shoreland enhancement         E           City of Bemidji         Beltrami         146         33         2         4         14633434         5.0         \$ 26,383         Shoreland enhancement         E           Cannon River         Rice and Goodhue         5         5         91,383         Shoreland enhancement         E           Crow River         Numerous         5         5         107,747         Shoreland enhancement         E  |                                     |            |          |       |           |         |          |            |             |                         |          |
| City of Bemidji Beltrami 146 33 2 4 14633434 5.0 \$ 26,383 Shoreland enhancement E Cannon River Rice and Goodhue 20.0 \$ 91,383 Shoreland enhancement E Crow River 20.0 \$ 107,747 Shoreland enhancement E   |                                     |            |          |       |           |         |          |            |             |                         |          |
| Cannon River Rice and Goodhue 20.0 \$ 91,383 Shoreland enhancement E Crow River Numerous 20.0 \$ 107,747 Shoreland enhancement E   |                                     |            |          |       |           |         |          |            |             |                         |          |
| Crow River 20.0 \$ 107,747 Shoreland enhancement E   |                                     |            |          |       | -         | •       |          |            |             |                         |          |
| Eagle Creek AMA         Scott         115         21         2         7         11521207         0.6         \$ 27,747         Shoreland enhancement         E  |                                     |            |          |       |           |         |          |            |             |                         |          |
|  | Eagle Creek AMA                     | Scott      | 115      | 21    | 2         | 7       | 11521207 | 0.6        | \$ 27,74    | 7 Shoreland enhancement | E        |