

**Lessard-Sams Outdoor Heritage Council
ML 2010 Recommendation
AMENDED Accomplishment Plan**

Date: January 15, 2015

Project or Program Title: Accelerated Aquatic Management Area Acquisition (a.k.a., DNR Aquatic Habitat Program)

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Funds Recommended (\$000s)	Council Recommendation on Funding	Out-Year Projections of Needs		
	FY 2011	FY 2012	FY 2013	FY 2014
Outdoor Heritage Fund	3,416	15,000	15,000	15,000

Appropriation Language

Laws of Minnesota 2010, Chapter 361, Article I, Section 2, Subd. 5b.

\$3,416,000 in fiscal year 2011 is to the commissioner of natural resources to accelerate land acquisition by fee title and easements to be added to the state aquatic management area system as defined in Minnesota Statutes, chapter 86A, and to restore and enhance stream habitat and lake habitat. Land acquired in fee must remain open to hunting and fishing, consistent with the capacity of the land, during the open season, as determined in writing by the commissioner of natural resources. A list of proposed fee title and easement acquisitions, stream habitat restorations and enhancements, and lake habitat restorations and enhancements must be provided as part of the required accomplishment plan.

Abstract

This proposal uses a multi-programmatic approach to achieve prioritized aquatic habitat protection, restoration, and enhancement for lakes, trout streams, and rivers across Minnesota. We propose to: i) protect 4.24 miles of shoreline on lakes, rivers and trout streams; ii) effect structural repairs to 4 lake outlet control structures that will integrate fish passage; iii) restore and enhance river and stream functions that will benefit 3.5 river miles; and iv) enhance 1.4 miles of shoreline habitat on publicly-owned lakeshore. 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.

Narrative

What is the 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 – aquatic habitats exhibiting declining quality under high environmental stress in the northeast, and moderate to high quality habitats within high environmental stress landscapes to the west and south. This provides a meaningful framework for providing habitat protection, restoration, and enhancement through DNR's diverse habitat programs infrastructure.

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 opportunities as an important additional benefit.

Providing fish passage over in-stream barriers such as low-head dams and culverts by backfilling with rock reconnects fish and other aquatic species to upstream habitats essential for spawning, juvenile life stages, and overall abundance and genetic diversity of aquatic species. Stream restoration projects reconstruct the stream's natural pattern, profile, and dimension. Natural stream design favors hydrologic conditions that do not degrade the stream bank and bed and provides a diversity of microhabitats that are more favorable to fish and other aquatic species. Channel restoration, dam modification, and shoreline enhancement work is based on proven methods and DNR experience with multiple projects. 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. These are significant and durable accomplishments benefiting aquatic habitat. As examples of these successful strategies, DNR has conducted large-scale projects to restore the Whitewater River to its original channel; 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); and enhanced 21 miles of shoreline on lakes across the state including many challenging high erosion sites. Also projects address other key components of a stream: wildlife and fish habitat, water quality, connectivity to the floodplain and upstream reaches, and hydrology. By drawing on the accumulated scientific knowledge on all components of the stream DNR strives to deliver the best possible restoration projects using the best science available. The stream restoration coordinator would be charged with monitoring the physical and functional assessments of the "as-built" OHF investments.

The DNR has conducted shoreline enhancement projects for over 10 years and during that time the program has grown in scope and popularity. The annual number of shoreland restoration projects completed has increased from 23 in 2002 to 60 in 2009. At the end of the L-SOHC grant period, 1.4 miles of 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. Project habitat benefits will continue to accrue beyond the term of this grant as project sites mature and the shoreline assumes a more natural character.

Describe the nature and extent of any partnerships in this project, stakeholder and public participation processes associated with the project and any anticipated support or opposition to the project.

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 project are linked to various landscape or system-specific management plans (e.g., Lake Superior Management Plan) that have been developed through extensive internal and external coordination. These elements represent shared priorities with multiple partners and stakeholders.

For land acquisitions, indicate local government support and approval

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.

Relationship to *Minnesota Conservation and Preservation Plan* and other published resource management plans.

Reference resource management plans and their priorities that support this project.

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 among 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. 76). This recommendation seeks "... to restore the natural features of lakeshore habitats (area comprising the shoreland, shoreline, and near-shore)."
- 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.

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.

Strategic Plan for Coldwater Resources Management in Southeast Minnesota 2004-2015

This plan establishes targets to protect, improve, and restore coldwater aquatic habitat 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:

- 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 (www.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 (www.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. (www.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.

Project Design and Evaluation

Describe the scope of the project in appropriate measures (i.e., acreage, numbers of lakes, miles of shoreline)

NOTE: Asterisk indicates acreage estimates for Restore/Enhance that were calculated based 12 acres/mile for streams as provided by Heather Koop, January 20, 2010.

Project Scope	Wetlands and Wetland Systems	Prairies and Prairie Systems	Forests and Forest Systems	Habitats for Fish, Game and Wildlife (Include Description in Footnote)
Restore				
Protect				<i>3.59 miles (327 acres) of lakeshore and 0.65 miles (10.7 acres) of coldwater stream will be permanently protected by fee title or easement</i>
Enhance				<i>Channel reconstruction on Buffalo River at City of Hawley will enhance stream habitat along 1.5 miles (18 acres); 1.0 mile (12 acres) of trout in-stream habitat enhanced; 50 miles (600 acres) of stream corridor enhanced; 4 lake outlet control structures (1,264 acres) will be repaired and modified to allow fish passage; 1.4 miles (4.3 acres) of public lakeshore will be enhanced; 2 trout stream projects (approximately 4 acres) will be completed to enhance fish habitat in Lake Superior tributaries near Duluth</i>

Footnote: This project will address aquatic habitats with particular emphasis benefiting fish.

Counties in which activities will take place	Wetlands and Wetland Systems	Prairies and Prairie Systems	Forests and Forest Systems	Habitats for Fish, Game and Wildlife
Restore				
Protect				<i>Current projects are located in all 5 of the Ecological Planning Sections</i>
Enhance				<i>Becker, Clay, Crow Wing, Dakota, Fillmore, Goodhue, Hennepin, Houston, Itasca, Jackson, LeSueur, Martin, Morrison, Murray, Olmsted, Ramsey, St. Louis, Stearns, Todd, Winona</i>

Acres Within Each Ecological Section	Metropolitan-Urbanizing Area	Forest-Prairie Transition	Southeast Forest	Prairie Region	Northern Forest
Restore					
Protect		<i>29 acres (0.42 mile) of shoreline permanently protected</i>	<i>10.7 acres (0.65 miles) of shoreline permanently protected</i>	<i>58.2 acres (0.7 miles) of shoreline permanently protected</i>	<i>240.1 acres (2.47 miles) of shoreline permanently protected</i>
Enhance	<i>0.5 acres (871 In ft) of lakeshore enhanced; 1 trout stream barrier modified</i>	<i>0.4 acres (697 In ft) of lakeshore enhanced; 1,111 acres (2 outlet control structures) repaired and modified</i>	<i>1.6 acres (2787 In ft) of lakeshore enhanced; 12 acres (1 mile) of trout in-stream habitat enhanced; 600 acres (50 miles) of stream corridor enhanced (livestock fencing, vegetation planting; invasive species control)</i>	<i>1.0 acres (1742 In ft) of lakeshore enhanced; 18 acres (7920 In ft) of river channel enhanced</i>	<i>0.8 acres (1394 In ft) of lakeshore enhanced; 153 acres (2 outlet control structures) repaired and modified; one fish passage barrier removed and one culvert modified (approximately 4 acres)</i>

Funding Per Ecological Section	Metropolitan-Urbanizing Area	Forest-Prairie Transition	Southeast Forest	Prairie Region	Northern Forest
Restore					
Protect		<i>\$235,500</i>	<i>\$49,400</i>	<i>\$121,900</i>	<i>\$1,368,200</i>
Enhance	<i>\$83,300</i>	<i>\$88,800</i>	<i>\$260,000</i>	<i>\$897,900</i>	<i>\$311,000</i>

Indicate what is being funded

Funding Resource Type	Wetlands	Prairies	Forests	Habitats for Fish, Game and Wildlife
Restore				
Protect				<i>\$1,775,000</i>
Enhance				<i>\$1,641,000</i>

Acquisition and Tax Data	Wetlands	Prairies	Forests	Habitats for Fish, Game and Wildlife
Acquired in Fee with State PILT Liability				<i>3.59 miles (327.3 acres) of lakeshore at \$1,421,969</i>
Acquired in Fee without State PILT Liability				
Permanent Easement				<i>0.65 miles (10.7 acres) of coldwater stream at \$43,031</i>

Budget

Please describe how you intend to spend the recommended funds

Relationship to Current Budget

Indicate the percentage of this project in relation to your organization/agency's total budget.

This project represents slightly less than 1% of the DNR's FY09 expenditures from all sources.

Demonstrate how this funding and activity will supplement your current budget.

The project work included in this accomplishment plan is above and beyond program activity funded through DNR base budget appropriations. In addition to legislative appropriations from Game and Fish Fund, Heritage (lottery), and capital bonding, the Department actively pursues other funding from a variety of sources including LCCMR, federal grants and private foundation grants to achieve program outcomes. These alternative sources of funding are less certain/predictable and are not part of the Department's base budget.

If existing staff will be reassigned to this project, indicate what current projects or duties will be affected.

One existing staff to be partially funded by this appropriation will be reassigned to manage the public shoreland enhancement element. This position will further provide native vegetation planting design consultation and technical assistance to other elements of this program. LCCMR funding for projects currently managed by this person will conclude at the end of FY10. As a result, no current projects or duties will be affected.

Personnel

List the positions, name (if known) and anticipated program funds to be paid by this recommendation

Position	Name	Amount
Restoration Coordinator		\$170,000 <u>200,000</u>
Shoreland Restoration Spec	Lindy Ekola	\$75,000
Student intern(s)		\$40,000

Leverage

List the sources and amounts of leverage you have in hand or anticipate by fiscal year.

SOURCE	FY 11	FY 12	FY 13

	In hand	Anticipated	In hand	Anticipated	In hand	Anticipated
State						
RIM-CHMP		\$100,000		\$250,000		
Non state						
Donation (cash and land value)		\$300,000		\$250,000		
Local Cash Match		\$60,000				
In-kind/Volunteer						
Local In-kind match				\$45,000		\$45,000
TOTAL	\$ 0	\$460,000		\$545,000		\$45,000

Indicate how the leverage will be used

Leverage	State				Non-State			
	Wetlands and Wetland Systems	Prairies and Prairie Systems	Forests and Forest Systems	Habitats for Fish, Game and Wildlife	Wetlands and Wetland Systems	Prairies and Prairie Systems	Forests and Forest Systems	Habitats for Fish, Game and Wildlife
Restore								
Protect				\$350,000				\$550,000
Enhance								\$150,000

Accomplishment Timeline

Milestones	FY 2011	FY 2012	FY 2013	Budgetary Expenditure
<i>Miles of shoreline acquired (AMA)</i>	<i>1.57 miles of shoreline acquired</i>	<i>2.25 miles of shoreline acquired</i>	<i>0.42 mile of shoreline acquired</i>	<i>\$1,755,000</i>
<i>Dams repaired/modified</i>	<i>2 dams</i>		<i>2 dams</i>	<i>\$77,000</i>
<i>Public lakeshore enhanced</i>	<i>Project grants awarded</i>	<i>Projects installed</i>	<i>Projects assessed and sign-off</i>	<i>\$314,000</i>
<i>Streams restored/dams modified</i>	<i>Project design work</i>	<i>Project design and bids</i>	<i>Initiate construction activities on Buffalo River project prior to June 30, 2015</i>	<i>\$819,000</i>
<i>Stream restoration/dam modification preliminary designs</i>	<i>Initiate work on up to 3 preliminary design assessments</i>	<i>Continue progress on preliminary design assessments</i>	<i>Continue progress on preliminary design assessments</i>	<i>\$37,000</i>
<i>Fish passage enhanced</i>		<i>1 trout stream barrier passable</i>	<i>Enhance fish passage over barriers in two Duluth area trout streams by June 30, 2015</i>	<i>\$134,000</i>
<i>Trout streams enhanced</i>	<i>Supplies purchased for stream corridor and in-stream enhancement work</i>	<i>50 miles of existing trout stream corridor enhanced; 1 mile of trout in-stream habitat enhanced</i>		<i>\$260,000</i>

Maintenance and Sustainability

Please describe how lasting improvement will be maintained/ sustained. For easement acquisitions and fee acquisitions, explain how maintenance and sustaining costs will be paid.

AMA acquisitions will be sustained through fee title ownership and perpetual easements held by the DNR. This is a long-term protection strategy. 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, or water control structure installation and replacement 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.

River and stream restoration activities are designed to work with natural hydrology of 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 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.

Amendment Language for Restoration and Enhancement Programs

Program managers may add, delete, and substitute projects on this parcel list based upon need, readiness, cost, opportunity, and/or urgency so long as the substitute parcel/project forwards the constitutional objectives of this program in the *Project Scope* table of this accomplishment plan. The final accomplishment plan report will include the final project parcel list.

Attachment A. Budget Spreadsheet

Name of Proposal:	DNR Aquatic Habitat Program (a.k.a., Accelerated Aquatic Management Area Acquisition)
Date:	15-Jan-15
Legal Citation / Proposal Number:	Laws of Minnesota 2010, Chapter 361, Article I, Section 2 Subd. 5b.

[Link Here to definitions of the budget items below.](#)

Total Amount of Request \$ 3,416,000 *From page 1 on the funding form.*

Personnel

Position breakdown here	FTE	Over # of years	LSOHC Request	Anticipated Cash Leverage	Cash Leverage Source	Total
<i>Stream Restoration Coord</i>	1	3	\$ 200,000 170,000			\$ 200,000
<i>Shoreland Restoration Spec</i>	0.5	2	\$ 75,000			\$ 75,000
<i>Student Intern</i>	0.2	3	\$ 40,000			\$ 35,000
<i>position 4</i>						\$ -
<i>position 5</i>						\$ -
<i>position 6</i>						\$ -
<i>position 7</i>						\$ -
Total	1.7		285,000 315,000	\$ -	\$ -	\$ 310,000

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	LSOHC Request	Anticipated Cash Leverage	Cash Leverage Source	Total
Personnel - <i>auto entered from above</i>	285,000 315,000	\$ -	\$ -	\$ 310,000
Contracts	\$1,077,950	\$ 150,000	<i>local match</i>	\$ 1,227,950
Fee Acquisition w/ PILT <i>(breakout in table 6 & 7)</i>	\$ 1,422,000	\$ 900,000	<i>RIM-CHP; donations</i>	\$ 2,322,000
Fee Acquisition w/o PILT <i>(breakout in table 6 & 7)</i>				\$ -
Easement Acquisition	\$ 43,000			\$ 43,000
Easement Stewardship				\$ -
Travel (in-state)	\$ 55,000 45,000			\$ 55,000
Professional Services	\$ 313,000 323,000			\$ 313,000
DNR Direct Support Services <i>(DNR programs only)</i>	\$ 46,400			\$ 46,400
DNR Land Acquisition Costs				\$ -
Other				\$ -
Capital Equipment <i>(auto entered from below)</i>		\$ -		\$ -
Other Equipment/Tools	2,650			\$ 2,650
Supplies/Materials	\$141,000 171,000			\$ 141,000
	\$ 3,101,000	\$ 1,050,000	\$ -	\$ 4,461,000

Capital Equipment *(single items over \$10,000 - auto entered into table above)*

Item Name	LSOHC Request	Leverage
<i>Item 1 enter here</i>		
<i>Item 2 enter here</i>		
Total	0	0

Attachment C. Parcel List

Table 5 Parcel list

Name of Proposal: DNR Aquatic Habitat Program (a.k.a., Accelerated Aquatic Management Area Acquisition)
Legislative Citation: ML 2010, Ch. 361, Art. 1, Sec. 2
Date: 1/8/2015

County	Township (25-258)	Range (01-51)	Direction most parcels are 2 with the exception of some areas of Cook County which is 1	Section (01 thru 36)	TRDS	# of acres	Budgetary Estimate (includes administrative, restoration or other related costs and do not include matching money contributed or earned by the transaction)	Description	Activity PF=Protect Fee PE=Protect Easement PO=Protect Other R=Restore E=Enhance	If Easement, what is the easement cost as a % of the fee acquisition?	Any existing protection? (yes/no)	Open to hunting and fishing? (yes/no)
Parcel Name												
Bad Medicine Lake AMA, P13	Becker	142	37	2	5	14237205	7.6 \$ 300,000	Fee Title	P		No	Yes
Big Too Much Lake AMA, P2	Itasca	148	25	2	13	14825213	1 \$ 10,000	Fee Title	P		No	Angling Only
Blue Earth River AMA, P3	Blue Earth	105	28	2	34	10528234	105 \$ 350,000	Fee Title	P		No	Yes
Camp Cuyuna AMA, P3	Crow Wing	137	26	2	7	13726207	7.5 \$ 200,000	Fee Title	P		No	Yes
Camp Cuyuna AMA, P4	Crow Wing	137	27	2	1	13727201	120 \$ 1,200,000	Easement	P		No	Yes
Camp Wheatley AMA	Carver	117	25	2	11	11725211	100 \$ 800,000	Easement	P		No	Yes
Cannon River AMA, P2	Rice	110	23	2	11	11023211	100 \$ 200,000	Fee Title	P		No	Yes
Caron Lake AMA, P2	Rice	110	22	2	33	11022233	386 \$ 1,550,000	Fee Title	P		No	Yes
Eagle Lake AMA, P1	Itasca	59	25	2	1	5925201	33 \$ 10,000	Fee Title	P		No	Yes
East Lost Lake AMA, P1	Otter Tail	133	41	2	11	13341211	29 \$ 600,000	Fee Title	P		No	Yes
Five Mile Point, P2	Cass	143	29	2	12	14329212	7.3 \$ 250,000	Fee Title	P		No	Yes
Florida Lake AMA, P1	Kandiyohi	121	35	2	34	12135234	4.6 \$ 185,000	Fee Title	P		No	Angling Only
Flowage Lake AMA, P2	Aitkin	49	23	2	30	4923230	50 \$ 400,000	Fee Title	P		No	Yes
Grey Cloud AMA, P1	Washington	27	21	2	30	2721230	60 \$ 400,000	Fee Title	P		No	Yes
Greenleaf AMA	Meeker	118	30	2	20	11830220	51 \$ 200,000	Fee Title	P		No	Yes
Gull Lake AMA	Beltrami	148	32	2	4	148320204	10.8 \$ 60,000	Fee Title	P		No	Yes
Hamlet Lake AMA	Crow Wing	46	28	2	27	4628227	30.5 \$ 300,000	Fee Title	P		No	Yes
Horseshoe Lake AMA, P1	Itasca	59	25	2	10	5925210	18 \$ 300,000	Fee Title	P		No	Yes
Horseshoe Lake AMA, P2	Cass	139	30	2	16	13930216	5.1 \$ 198,000	Fee Title	P		No	Yes
Hungry Lake AMA, P2	Becker	138	39	2	8	13839208	50 \$ 150,000	Fee Title	P		No	Yes
La Salle Lake AMA	Hubbard	145	35	2	30	14535230	150 \$ 750,000	Fee Title	P		No	Yes
Little Sand AMA, P1	Itasca	55	23	2	16	5523216	77 \$ 400,000	Easement	P		No	Yes
Lizzie Lake AMA, P2&3	Otter Tail	137	42	2	32	13742232	3.5 \$ 250,000	Fee Title	P		No	Angling Only
Lobster Lake AMA, P1	Douglas	128	38	2	30	12838230	3.3 \$ 60,000	Fee Title	P		No	Yes
Maud Lake AMA, P1	Becker	138	42	2	28	13842228	9 \$ 200,000	Fee Title	P		No	Angling Only
Middle Branch of Whitewater	Olmsted	106	10	2	10	10610210	37 \$ 300,000	Fee Title	P		No	Yes
Sanborn AMA	Redwood	109	36	2	27	10936227	58.2 \$ 300,000	Fee Title	P		No	Yes
Sandshell AMA	Stearns	127	29	2	25	12729225	86 \$ 900,000	Fee Title	P		No	Yes
Shell Rock River AMA	Freeborn	102	21	2	25	10221225	100 \$ 750,000	Fee Title	P		No	Yes
South Br. Vermillion	Dakota	114	18	2	29	11418229	65.6 \$ 450,000	Fee Title	P		No	Yes
Spirit Lake AMA	Wadena	138	35	2	28	13835228	51 \$ 386,100	Fee Title	P		No	Yes
Spring Brook AMA, P1	Rice	111	20	2	4	11120204	35 \$ 140,000	Fee Title	P		No	Yes
Spring Valley Hatchery AMA	Fillmore	103	13	2	27	10313227	27 \$ 600,000	Fee Title	P		No	Yes
Sunrise Lake AMA	Chisago	34	20	2	17	3420217	46 \$ 300,000	Fee Title	P		No	Yes
Tallus Island AMA	St. Louis	49	15	2	23	4915223	51 \$ 10,000	Fee Title	P		No	Yes
Ten Mile Lake AMA, P4	Cass	140	31	2	5	14031205	32 \$ 100,000	Fee Title	P		No	Yes

Attachment C. Parcel List

Toad Lake AMA, P3	Becker	139	38	2	16	13938216	87.5	\$	600,000	Fee Title	P	No	Yes
Trout Stream Easments	Primarily SE & NE						85	\$	500,000	Easement	P	No	Angling Only
Wildcat Creek AMA P3	Houston	103	4	2	27	10304227	7.11	\$	43,500	Easement	p	No	Angling Only
Turtle Lake AMA	Beltrami	148	33	2	15	14833215	19.2	\$	200,000	Fee Title	P	No	Yes
Upper Whitefish Lake AMA	Crow Wing	137	28	2	7	13728207	40	\$	200,000	Fee Title	P	No	Yes
Vermillion River AMA	Dakota	114	19	2	23	11419223	51.7	\$	\$300,000	Fee Title	P	No	Yes
Whispering Ridge AMA, P2	Redwood	114	36	2	30	11436230	408	\$	350,000	Fee Title	P	No	Yes
White Earth AMA	Becker	142	40	2	16	14240216	14	\$	300,000	Fee Title	P	No	Yes
Woman Lake AMA, P8	Cass	141	28	2	31	14128231	25	\$	400,000	Fee Title	P	No	Yes
Woman Lake AMA, P9	Cass	141	28	2	32	14128232	14	\$	500,000	Fee Title	P	No	Yes
Mississippi River - Little Falls D Morrison		129	29	2	19	12929219	582	\$	413,000	Nature-like bypass fishway	E		
Buffalo River - Hawley	Clay	139	45	2	12	13945212	18	\$	413,000	Channel Reconstruction	E		
West Beaver Creek	Houston	102	6	2	18	10206218	12	\$	130,000	CW Stream Enhancement	E		
Deer Lake Dam	Itasca	62	24	2	17	6224217	72	\$	40,000	Lake outlet repair/enhancement	E		
Otter Tail River	Becker	139	40	2	23	13940223	24	\$	9,000	Lake outlet repair/enhancement	E		
Round Lake	Becker	141	38	2	18	14138218	1087	\$	25,000	Lake outlet repair/enhancement	E		
Sylvia Lake	Stearns	126	33	2	2	12633202	81	\$	50,000	Lake outlet repair/enhancement	E		
Unnamed trout stream	Hennepin	27	24	2	12	2724212	0.5	\$	10,000	Fish Passage	E		
Sargent Creek	St. Louis	49	15	2	32	4915232	1	\$	68,000	Fish Passage	E		
Chester Creek	St. Louis	49	15	2	12	4915212	3	\$	39,000	Fish Passage	E		
Camp Creek	Fillmore	102	10	2	20	10210220	42.9	\$	9,358	CW Stream Enhancement	E		
Duschee Creek	Fillmore	103	10	2	25	10310225	42.9	\$	9,357	CW Stream Enhancement	E		
Little Jordan Creek	Fillmore	104	12	2	27	10412227	42.9	\$	9,357	CW Stream Enhancement	E		
Lynch Creek	Fillmore	104	11	2	11	10411211	42.9	\$	9,357	CW Stream Enhancement	E		
Willow Creek	Fillmore	102	11	2	13	10211213	42.9	\$	9,357	CW Stream Enhancement	E		
Wisel Creek	Fillmore	102	8	2	32	10208231	42.9	\$	9,357	CW Stream Enhancement	E		
Hay Creek	Goodhue	112	15	2	1	11215201	42.9	\$	9,357	CW Stream Enhancement	E		
Crooked Creek	Houston	102	4	2	29	10204229	42.9	\$	9,357	CW Stream Enhancement	E		
Mill Creek	Olmsted	105	12	2	25	10512225	42.9	\$	9,358	CW Stream Enhancement	E		
Money Creek	Winona	105	7	2	19	10507219	42.9	\$	9,357	CW Stream Enhancement	E		
Pickwick Creek	Winona	106	6	2	23	10606223	42.9	\$	9,357	CW Stream Enhancement	E		
Pine Creek	Winona	105	5	2	32	10505232	42.9	\$	9,357	CW Stream Enhancement	E		
Trout Run Creek	Winona	105	10	2	32	10510232	42.9	\$	9,357	CW Stream Enhancement	E		
Whitewater River, Middle Bra	Winona	107	10	2	17	10710217	42.9	\$	9,357	CW Stream Enhancement	E		
Cuyuna AMA	Crow Wing	137	27	2	12	13727212	0.75	\$	35,000	Shoreland Enhancement	E		
Whitefish Lake	Crow Wing	137	28	2	17	13728217	0.1	\$	10,000	Shoreland Enhancement	E		
Trout Lake	Itasca	56	24	2	32	5624232	0.1	\$	10,000	Shoreland Enhancement	E		
Loon Lake	Jackson	101	36	2	24	10136224	0.1	\$	10,000	Shoreland Enhancement	E		
West Fork of Des Moines River	Jackson	102	35	2	24	10235224	0.33	\$	36,000	Shoreland Enhancement	E		
Gorman Lake	LeSueur	110	24	2	12	11024212	0.13	\$	15,000	Shoreland Enhancement	E		
Cedar Lake - Cedar Hanson Pa	Martin	104	32	2	19	10432219	0.25	\$	30,000	Shoreland Enhancement	E		
Coolridge AMA	Winona	105	9	2	25	10509225	0.1	\$	7,500	Shoreland Enhancement	E		
Etna Creek AMA	Fillmore	103	13	2	25	10313225	2.5	\$	7,500	Shoreland Enhancement	E		
Gemini AMA	Goodhue	112	17; 18	2	7; 12	11217207	6	\$	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 Root River An	Olmsted	105	12	2	21	10512221	0.2	\$	20,000	Shoreland Enhancement	E		
Keller Lake + 2nd site adjacent	Ramsey	29	22	2	9	2922209	1.2	\$	78,000	Shoreland Enhancement	E		
Lake Osakis + adjacent public	Todd	128	35	2	5	12835205	0.4	\$	25,000	Shoreland Enhancement	E		
Rays Lake	LeSueur	109	24	2	26	10924226	0.6	\$	2,700	Shoreland Enhancement	E		
Simley Lake Park	Dakota	27	22	2	10 and 15	2722210	1.1	\$	15,000	Shoreland Enhancement	E		
Stay Lake AMA	Lincoln	111	44	2	29	11144229	0.5	\$	27,747	Shoreland Enhancement	E		
Vermillion River AMA	Dakota	114	18	2	20	11418220	14	\$	15,000	Shoreland enhancement	E		
West Indian	Winona	109	10	2	16	10910216	24.8	\$	27,900	CW Stream Enhancement	E		

Attachment C. Parcel List

Trout Run Creek	Winona	105	10	2	19	10510219	12.1	\$	13,600	CW Stream Enhancement	E
Duschee Creek	Fillmore	103	10	2	25	10310225	15.7	\$	17,700	CW Stream Enhancement	E
Ferguson Creek	Winona	105	8	2	25	10508218	24.2	\$	27,200	CW Stream Enhancement	E
Pine Creek	Winona	105	5	2	19	10505219	12.1	\$	13,600	CW Stream Enhancement	E
<u>Wisel Creek</u>	<u>Fillmore</u>	<u>101</u>	<u>8</u>	<u>2</u>	<u>5</u>	<u>10108205</u>	<u>34</u>	<u>\$</u>	<u>2,500</u>	<u>CW Stream Enhancement</u>	<u>E</u>
<u>South Fork Root River</u>	<u>Fillmore</u>	<u>102</u>	<u>8</u>	<u>2</u>	<u>5</u>	<u>10209226</u>	<u>21</u>	<u>\$</u>	<u>2,500</u>	<u>CW Stream Enhancement</u>	<u>E</u>
<u>Winnebago Creek</u>	<u>Houston</u>	<u>101</u>	<u>5</u>	<u>2</u>	<u>16</u>	<u>10105216</u>	<u>26</u>	<u>\$</u>	<u>2,500</u>	<u>CW Stream Enhancement</u>	<u>E</u>
<u>Rush Creek</u>	<u>Winona</u>	<u>105</u>	<u>8</u>	<u>2</u>	<u>18</u>	<u>10508218</u>	<u>37</u>	<u>\$</u>	<u>2,500</u>	<u>CW Stream Enhancement</u>	<u>E</u>
<u>Diamond Creek</u>	<u>Fillmore</u>	<u>103</u>	<u>8</u>	<u>2</u>	<u>14</u>	<u>10309214</u>	<u>9.7</u>	<u>\$</u>	<u>10,900</u>	<u>CW Stream Enhancement</u>	<u>E</u>
<u>Camp Creek</u>	<u>Fillmore</u>	<u>102</u>	<u>3</u>	<u>2</u>	<u>32</u>	<u>10210232</u>	<u>3.9</u>	<u>\$</u>	<u>4,500</u>	<u>CW Stream Enhancement</u>	<u>E</u>