

2012-2013 Environment and Natural Resources Trust Fund Proposals Selected to Present

In response to the 2012-2013 Request for Proposal (RFP), due April 6, 2012, 169 proposals requesting a total of approximately \$155 million were received. Approximately \$34 million from the Environment and Natural Resources Trust Fund is expected to be available for funding recommendations to the 2013 Legislature for projects to begin July 1, 2013. On June 5, 2012, the LCCMR selected 65 proposals requesting a total of approximately \$79 million to invite in to present before the Commission and receive further consideration.

ID #	Last Name	First Name	Project Title	Summary	Organization	\$ Requested
A. Fisheries & Wildlife Research (4 Proposals / \$2,441,179)						
001-A	Pereira	Donald	Sustaining Lakes in a Changing Environment Phase 2	SLICE Phase 2 will complete the process of developing whole systems monitoring and models of MN lakes to allow managers to better evaluate actions for clean water and productive fisheries.	MN DNR	\$1,411,871
002-A	Spivak	Marla	Bee Lawns: A Unique Way to Help Pollinators	We will research if "bee lawns" can replace traditional turfgrass in areas of limited human traffic, which will reduce chemical inputs, and help bee pollinators by providing critical floral resources.	U of MN	\$282,574
004-A	Moen	Ron	Moose Habitat Restoration in Northeastern Minnesota	We will develop best practices guidelines for creating moose foraging habitat efficiently and cost-effectively that will allow limited funds to be directed to projects providing most benefit to moose.	U of MN - Duluth NRRRI	\$219,734
006-A	Lauer	Jack	Assessing Impacts to Fish Populations in Minnesota River	Begin a Minnesota River long-term monitoring program with academic collaboration for measuring the health of river biota through annual fish population assessments, while tracking the emerging effects of Asian carp.	MN DNR	\$527,000
B. Forestry/Agriculture/Minerals (8 Proposals / \$4,996,439)						
013-B	Hauck	Steven	How Do Natural Copper-Nickel Bedrocks Influence Water Quality?	Minnesota will promote economic development of mineral resources and preserve the environment in northeastern Minnesota by collecting background chemistry on water, rocks, soils and stream sediments.	U of MN - Duluth NRRRI	\$669,267
015-B	Berndt	Michael	Mining Sulfate Released North from the Iron Range	The environmental fate of sulfate released from mining will be systematically evaluated in watersheds north and west of Minnesota's Iron Range, completing the regional analysis begun in 2010.	MN DNR	\$447,172
016-B	Ek	Alan	Rapid Forest Ecosystem and Habitat Inventory by Imputation	We will evaluate a new approach to forest inventory, based on imputation of statewide Forest Inventory and Analysis (FIA) data, to speed updates, improve usability, and dramatically reduce costs.	U of MN	\$523,000

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017-B	Beckwith	John	Controlling Terrestrial Invasive Plants with Grazing Animals	Connects livestock producers with landowners to develop a cost effective environmentally friendly BMP to control invasive terrestrial species through planned grazing, and then transfer this knowledge to others in region.	Hiawatha Valley Resource Conservation & Development, Inc.	\$52,000
019-B	Blanchette	Robert	Finding Disease Resistant Elm Trees in Minnesota	Native Minnesota elms resistant to Dutch elm disease exist and represent a valuable resource that can be used to fight this invasive disease and restore elms to their previous grandeur	U of MN	\$431,000
023-B	Penning	Bill	Conservation Grazing to Improve Wildlife Habitat on WMAs	Disturbance invigorates grasslands and livestock grazing is one management tool. This project provides infrastructure to support conservation grazing on 10,000 acres of targeted WMAs in partnership with local livestock producers.	MN DNR	\$1,200,000
024-B	Zamora	Diomy	Enhancing Environmental and Economic Benefits of Woodland Grazing	We will demonstrate/assess that managing woodlands used for grazing can provide environmental and economic benefits: improved water quality, reduced soil erosion, enhanced species diversity, and improved forage and livestock performance.	U of MN	\$380,000
027-B	Fernholz	Kathryn	Realizing County Forests' Full Potential Through Improved Inventory	Seven counties in Northern Minnesota working together to apply next generation forest inventory methods that address emerging issues and opportunities related to wildlife habitat, invasive species and improved forest productivity.	Dovetail Partners, Inc.	\$1,294,000
C1. Invasive Species - Aquatic (8 Proposals / \$16,456,453)						
033-C1	Sorensen	Peter	An Aquatic Invasive Species Research Center	An AIS research center at the University of Minnesota will develop powerful new techniques to control AIS including Asian carps and zebra mussel with assisting government groups implement extant techniques.	U of MN	\$13,987,871
034-C1	Gaikowski	Mark	Evaluating Effects of Pf-CL145A on Native Aquatic Animals	Assessment of impacts of a commercially available molluscicide formulation on the reproduction and development of native fish as well as impacts on larval aquatic insect survival.	US Geological Survey, Upper Midwest Environmental Sciences Center	\$146,800

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035-C1	Gaikowski	Mark	Integrated Control of Dreissenid Mussels in Minnesota Waters	Assessment of a commercially available molluscicide formulation for control of dreissenid mussels in natural waters and the use of molecular techniques for treatment optimization and dreissenid mussel detection.	US Geological Survey, Upper Midwest Environmental Sciences Center	\$454,522
036-C1	Cotner	James	Controlling Invasive Species by Injecting CO2 in Lakes	We will examine the feasibility and effectiveness of using liquid carbon dioxide under the ice of shallow lakes as a management technique for removing rough and invasive fish species.	U of MN	\$432,000
037-C1	Schlagenhaft	Tim	Risk analysis of vulnerability to Asian carp	Asian carp are a serious threat to Minnesota. A statewide risk analysis is needed to determine waters at greatest risk and to help prioritize prevention and control efforts.	MN DNR	\$400,000
039-C1	Mensingher	Allen	Grounding the Flying Carp with Innovative Sound Technologies	To develop innovative sound technologies to determine what make carp jump and turn this behavior against the fish by using sound for fish detection, capture and developing boater safety devices	U of MN - Duluth	\$256,169
041-C1	DeLong	Michael	Strategy for River Management Following Asian Carp Invasion	Project will develop a management framework to address invasion of Asian Carp in Upper Mississippi River. Predictive models will identify vulnerable aquatic habitats, reducing costs for river management and mitigation.	Winona State University	\$239,091
042-C1	Parsons	Bradford	Detection and Monitoring of Asian Carp Populations	An aggressive search and monitoring program directly targeting Asian carp will provide vital information on the status of these species and allow the development of potential control strategies.	MN DNR	\$540,000
C2. Invasive Species - Terrestrial (4 Proposals / \$1,766,500)						
048-C2	Chandler	Monika	Search and Destroy Target Invasive Plant Species	To prevent environmental and economic damage, we will: 1) Train volunteers and professionals to find target species; 2) Control these species before they spread; and 3) Monitor to prevent re-infestation.	Dept. of Agriculture	\$512,000
049-C2	Van Riper	Laura	Biological Control of Garlic Mustard	Garlic mustard is an invasive plant that severely threatens woodland habitats. This project will implement biological control of garlic mustard, to replace mechanical/chemical control methods which are labor and cost-intensive.	MN DNR	\$150,000

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050-C2	Abrahamson	Mark	Improving Emerald Ash Borer Detection Efficacy for Control	We will implement detection work for emerald ash borer using different techniques and measure the effectiveness of each. This work will facilitate control efforts both now and in the future.	Dept. of Agriculture	\$794,500
051-C2	Reich	Peter	Post-Removal Techniques for Permanent Buckthorn Control	Buckthorn removal creates ideal conditions for subsequent buckthorn reinvasion. We will investigate post-removal treatments such as soil amendments (wood-chips, liming), then re-seeding with native plants to eliminate buckthorn regeneration.	U of MN	\$310,000
D. Land Acquisition & Restoration (18 Proposals / \$37,984,805)						
058-D	Booth	Margaret (Peggy)	SNA Acquisition, Restoration, Enhancement & Citizen Engagement	Diverse native plant communities and rare species habitat would be acquired as Scientific and Natural Areas (SNAs) and their quality sustained and improved through restoration, enhancement, monitoring, and citizen-student involvement.	MN DNR	\$4,686,400
059-D	Garms	Jason	Native Prairie Stewardship & Prairie Bank Easement Acquisition	This project will protect 225-acres of native prairie with Prairie Bank easements, apply management to 890-acres of prairie, and landowner stewardship will be encouraged through workshops, technical assistance and planning.	MN DNR	\$1,080,000
060-D	Christie	Jennifer	State Parks and State Trails Land Acquisition	Acquire land from willing sellers within the statutory boundaries of State Parks, State Recreation Areas and authorized State Trails. State land acquisitions provide ecological and recreational benefits to the public.	MN DNR	\$2,000,000
061-D	Lines	Kevin	RIM Reserve--Targeting Critically Vulnerable Expiring CRP Acres	In the next five years, 823,000 acres (60%) of Minnesota's CRP will expire. The goal is to re-enroll in CRP, or acquire RIM easements on, the most environmentally critical acres.	Board of Water and Soil Resources	\$17,000,000
062-D	Moe	Peter	Landscape Arboretum Acquisition of Property Surrounding Lake Tamarack	The Arboretum requests funding to acquire approximately a final 80 acres of land, which will include the protection of Lake Tamarack, and is otherwise in danger of development.	U of MN - MN Landscape Arboretum	\$2,000,000
064-D	Strommen	Sarah	MeCC VII - Metropolitan Conservation Corridors (MeCC) Phase 7 Overall Summary - \$5,013,000 [8 proposals] & 1.1-1.2	Protect and restore a connected network of critical habitat in the greater metropolitan area by acquiring fee title and conservation easements on 860 acres and restoring and enhancing 388 acres.	Minnesota Land Trust	\$50,000

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	Lewanski	Tom	MeCC VII - 2.1 & 3.4: Protect, Restore and Enhance Significant Watershed Habitat	FMR will restore 10 acres of prairie and enhance 120 acres of prairie/savanna and 108 acres of forest. Six acres within the Fish Creek Natural Area will be acquired.	Friends of the Mississippi River	\$442,000
	Buck	Wiley	MeCC VII - 2.3: Restoring Our Lands and Waters	Greening will restore/enhance 190 acres (100 Trust Fund) and 2200 lineal feet (1300 Trust Fund) of shoreline, engaging 250 volunteer community members in meaningful parts of the work.	Great River Greening	\$421,000
	Singer	Alan	MeCC VII - 2.6 & 3.7: Dakota County Lakeshore and Riparian Protection	This project will acquire 194 acres of conservation easements along rivers, streams and undeveloped lakeshore; develop Natural Resource Management Plans for 74 acres and restore/enhance 50 acres.	Dakota County	\$850,000
	Nash	Becca	MeCC VII - 3.1: 2013 TPLs Critical Land Protection Program	Acquisition of +/- 60 acres of high quality habitat and +/- 0.5 miles of shoreline in scientifically evaluated wildlife corridors within the greater Twin Cities Metro Area.	The Trust for Public Land	\$1,000,000
	Strommen	Sarah	MeCC VII - 3.2: Protect Significant Habitat by Acquiring Conservation Easements	To protect 250 acres of critical habitat in the greater metropolitan area by securing permanent conservation easements and dedicating funds for the perpetual monitoring and enforcement of those easements.	Minnesota Land Trust	\$750,000
	Loon	Deborah	MeCC VII - 3.3: Priority Expansion of Minnesota Valley National Wildlife Refuge	Minnesota Valley Trust will acquire in fee 250 acres to expand the Minnesota Valley National Wildlife Refuge, improving wildlife habitat and water quality and increasing public access to wildlife-dependent recreation.	MN Valley National Wildlife Refuge Trust, Inc.	\$1,000,000
	Rivers	Patrick	MeCC VII - 3.5: WMA Acquisition	This proposal will permanently protect through fee title acquisition 100 acres of critical habitat in the metro/urbanizing landscape that will complement existing investments.	MN DNR	\$500,000
068-D	Kroll	Thomas	Preserving the Avon Hills Landscape: Phase 2	Secure permanent conservation easements on high quality habitat using a competitive process that assures the best financial value and greatest public benefit. Develop land management plans and conduct community education.	Saint John's University	\$994,000

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072-D	Fauskee	Jeremy	Centennial Blowdown Restoration	The Centennial Blowdown Restoration Project will reforest damaged stands, restore degraded habitats, conserve natural ecosystems, and restore forest recreational opportunities to state lands damaged by the July 1, 2011 windstorm.	MN DNR	\$2,894,000
073-D	McGillivray	Robert	Frogtown Farm and Park	Acquisition of land for Frogtown Farm and Park, a much-needed urban green space for demonstration farming, recreation areas, and a nature sanctuary that preserves a grove of mature trees.	The Trust for Public Land	\$1,500,000
075-D	Voit	Jan	Heron Lake Sediment and Phosphorus Reduction Implementation Projects	This successful project would install five water quality improvement projects to reduce sediment and phosphorus to Heron Lake, monitor three streams, distribute one newsletter, and host a field day.	Heron Lake Watershed District	\$122,000
076-D	Klement	Lauren	Restoring Water Quality on Fourteen Southern Minnesota Lakes	This project will install 56 shoreland and 15 ag BMP projects that will improve water quality in 14 lakes in a tri-county area in Southern Minnesota.	Le Sueur County	\$695,405
E1. Natural Resource Information Collection & Analysis - Statewide (5 Proposals / \$8,042,000)						
082-E1	Converse	Carmen	Minnesota Biological Survey	Minnesota Biological Survey systematically collects, interprets and delivers data on the distribution and ecology of plants, animals, native plant communities and functional landscapes to guide and monitor conservation actions.	MN DNR	\$2,600,000
083-E1	Setterholm	Dale	MGS County Geologic Atlases (Part A) for Improved Water Management	Continuing statewide effort to provide comprehensive geologic mapping essential to effective and efficient management of surface and ground water resources. Users include local, state, and federal agencies and private businesses.	U of MN - MN Geological Survey	\$1,200,000
084-E1	Falteisek	Jan	County Geologic Atlas (Part B) for Water Resource Sustainability	Produce County Geologic Atlases, Part B, for groundwater protection, wise use, and long-term resource sustainability; map springsheds and prepare karst feature maps; improve digital access to atlas groundwater data.	MN DNR	\$2,180,000
085-E1	Kloiber	Steve	Updating the National Wetland Inventory for Minnesota - Phase 4	This is the fourth phase of a multi-phase project to update and enhance the National Wetland Inventory for Minnesota. This phase will update wetland maps for northeastern Minnesota.	MN DNR	\$1,751,000

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086-E1	Weiblen	George	Enabling Dynamic Access to Biodiversity Information	Provide digital records of Minnesota biodiversity to professionals and citizens. Current and historical data must be integrated to track and forecast invasive species for effective management and environmental education.	U of MN - Bell Museum of Natural History	\$311,000
E2. Natural Resource Information Collection & Analysis (4 Proposals / \$2,336,908)						
089-E1	Salomon	Christine	Harnessing Soudan Mine Microbes: Bioremediation, Bioenergy and Biocontrol	Expanding our current LCCMR project, unique microbes from the Soudan Mine will be applied to three significant challenges in Minnesota: Metal remediation, microbial electrofuels and control of White-Nose Bat Syndrome	U of MN	\$838,000
090-E2	Marshall	Julian	Addressing Ozone and Particulate Matter Pollution in Minnesota	We will evaluate strategies to address ground-level ozone and particulate matter. Our approach builds on control scenarios developed by experts from industry and nonprofits; results will be shared with MPCA.	U of MN	\$262,932
092-E2	Cowdery	Tim	Measuring Hydrologic Benefits from Glacial Ridge Habitat Restoration	We will compare the hydrology before and after habitat restorations to quantify resultant flood-reduction and water-quality gains, identify Minnesota areas that could benefit from restorations, and calculate the potential improvements.	Red Lake Watershed District	\$551,500
093-E2	Damon	Susan	Conservation Easement Stewardship Program, Phase III	Acceleration of DNRs ongoing work to bring existing conservation easements up to minimum standards through monitoring, baseline data collection and baseline report preparation; development of technology to enhance monitoring efficiency.	MN DNR	\$684,476
F. Outreach/Education/Training (3 Proposals / \$876,000)						
105-F	Lais	Greg	Youth Outdoors: Mississippi River Education and Employment Opportunities	Project Youth Outdoors provides environmental education trips for 7,000 youth from Grand Rapids, St. Cloud, the Twin Cities, Hastings, and Red Wing teaching fishing, canoeing, camping, and providing employment opportunities.	Wilderness Inquiry	\$490,000
106-F	Woods	Steve	Minnesota Conservation Apprentice Academy	The apprentice program transfers knowledge from experienced professionals to the next generation of conservation managers. Real-world experience gained with SWCDs during their busy construction season is experience textbooks cannot convey.	Board of Water and Soil Resources	\$186,000

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107-F	Lennon	Megan	Protecting Minnesota's Soils: The Year of Soil Quality	This project promotes conservation practices to improve soil quality, underscores soil's fundamental role in achieving water quality goals, and builds an appreciation for Minnesota's soil resource.	Board of Water and Soil Resources	\$200,000
G. Recreation (1 Proposal / \$400,000)						
133-G	Exner	Kent	Restoring Connectivity and Public Access to Campbell Lake	Restoring Campbell Lakes access from the Crow River State Water Trail enhances the public's opportunities for local fishing and wildlife observation, and significantly improves the entire water body's recreational value.	City of Hutchinson	\$400,000
H. Renewable Energy (0 Proposals / \$0)						
I. Water Resources (10 Proposals / \$3,237,932)						
139-I	Brown	Erik	Evaluating Lake Superior's Health in a Changing World	Lake Superior is undergoing dramatic changes—less ice, warmer summers, more invasive species. Using advanced field technologies, we will evaluate how these impact the natural capital of this incomparable resource.	U of MN - Duluth	\$600,000
140-I	Novak	Paige	Membranes for Wastewater-Generated Hydrogen and Clean Water	Develop, optimize and test membranes (thin film polymers embedded with selected bacteria) to generate clean water and valuable energy in the form of hydrogen from wastewater	U of MN	\$246,000
141-I	Mulla	David	Removing Pesticides and Nitrate with Optimized Wetlands	This project will remove pesticides and nitrate in restored wetlands that are optimized for solar and biological treatment processes based on loading, depth, and location of wetlands on the landscape.	U of MN	\$323,841
142-I	Kruse	Greg	Managing Rivers to Ensure Future Demands for Water	This project will establish a stream flow estimation methodology for Minnesota. This information is essential to determine water availability, connections between surface water and groundwater and impacts to watershed ecology.	MN DNR	\$275,000
143-I	Adams	Byron	Evaluating Groundwater Threats from Contaminants of Emerging Concern	Municipal and industrial wastewaters, known to contain contaminants of emerging concern, are routinely applied to land throughout the state. This project evaluates whether these contaminants are threatening groundwater resources.	MN Pollution Control Agency	\$388,273

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147-I	Schottler	Shawn	Quantifying Effectiveness of BMPs in Reducing Field Erosion	Sediment concentrations in our rivers remain high, despite widespread adoption of BMPs to reduce field erosion. Changing sources and loads will be reconstructed from sediment cores to evaluate BMP effectiveness.	Science Museum of Minnesota	\$256,462
148-I	Elliott	Sarah	Effectiveness of Stormwater Ponds at Reducing PAH Toxicity	PAH removal and bioavailability in stormwater ponds will be assessed to calculate the efficiency of the ponds at reducing PAH loads and toxicity to urban water bodies.	U.S. Geological Survey	\$398,501
149-I	Valentas	Kenneth	Stopping Phosphorous from Entering Water Resources and Fisheries	Phosphorous from treatment plants, feedlots and agriculture fertilize algae that threaten our water resources. Thermal treatment by Hydrothermal Carbonization will remove phosphorous from these sources allowing its recycle to agriculture.	U of MN	\$398,000
151-I	LaPara	Timothy	Wastewater Treatment to Destroy Antibiotic Resistance: Minnesotas Story	This project will evaluate the ability of Minnesotas wastewater treatment facilities to eliminate antibiotic resistant bacteria, thus providing protection to Minnesotas water, soil, and public health.	U of MN	\$148,855
152-I	Wammer	Kristine	Antibiotics in Minnesota Waters: Phase 2, Mississippi River	We will measure antibiotic concentrations and antibiotic resistance levels and assess the contributions of farm runoff and wastewater treatment in a portion of the Mississippi River.	University of St. Thomas	\$203,000
J. Other (0 Proposals / \$0)						