

2016 Environment and Natural Resources Trust Fund Proposals

CUMULATIVE AVERAGE OF MEMBER RANKINGS - LISTED BY CATEGORY RANK - HIGH TO LOW

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflict	SELECTED	LCCMR Recommendation
1	A. Foundational Natural Resource Data and Information (22 Proposals / Subtotal \$10,915,868)												
2	016-A	Improving Brook Trout Stream Habitat through Beaver Management	Bemidji State University [Hafs, Andrew]	\$225,210	NE	- \$210,000 - Balanced benefits of beaver. - \$210,000, remove GIS workstation. - 1 of 30 < \$300,000.	- Budget includes designated contract: \$96,500 for University of Minnesota-Duluth. - Budget includes potentially ineligible item: some portion of \$15,000 for GIS workstation. - Wildlife	7.00	8,8,8,8,8,8,8,8,7,7,7,6,5,5,4	16	0		
3	019-A	Prescribed Burning to Improve Management for Brushland Species	U of MN [Montgomery, Rebecca]	\$267,623	NE	- Full funding. - Question the value. - 1 of 30 < \$300,000.	- Budget includes designated contract: \$58,500 for MN DNR	6.93	9,9,9,9,9,8,8,7,7,6,4,4,4,2	15	0		
4	020-A	Enhancing Understanding of the Minnesota River Ecosystem	MN DNR [Lauer, Jack]	\$573,447	Central, Metro, SW, SE	- No direct and necessary expenses. - \$500,000 - \$500,000 - Too much money. Limited value; rather have a project on the ground. - We need better understanding of this ecosystem.	- Budget includes \$38,852 for "Direct and Necessary Expenses". - Budget includes potentially ineligible items: \$3,000 for computers and \$3,000 for misc replacement equipment. - Travel budget includes mileage fee of \$0.73/mile, which exceeds Federal mileage rate.	6.81	9,8,8,8,8,8,8,8,7,7,6,6,5,5,0	16	0		
5	003-A	Data Driven Pollinator Conservation	U of MN [Cariveau, Daniel]	\$558,611	Central, NW, SW	- \$500,000 - Baseline data. - Full funding. - Seems like we should have the information of what is a good bee habitat. - Fund at \$500,000. Native planting decisions must be decided on. - For \$500,000	- Related open appropriations: ML 2014 - "Enhancing Pollinator Landscapes" = \$864,000 (expires 06/30/2019) - Budget includes some undesignated portion of \$5,000 for journal publication fees. - Pollinators	6.56	9,9,9,8,8,8,8,7,7,7,7,6,5,5,2,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
6	001-A	Completing the National Wetland Inventory Update for Minnesota	MN DNR [Kloiber, Steve]	\$1,608,750	NW	<ul style="list-style-type: none"> - \$0 - \$1,500,000 - Complete it. - Really good project. - \$1,500,000 - Way too expensive, DNR should be doing on their own. Good that they have cut down direct and necessary costs. Should scale for less money, if approved at all. - 2 years of funding only. - Critical to future decision-making. Fund at \$1,500,000. - For \$1,500,000. 	<ul style="list-style-type: none"> - Related open appropriations: ML 2013 - Updating the National Wetland Inventory for Minnesota - Phase IV = \$1,000,000 (expires 06/30/16); ML 2015 - Updating the National Wetland Inventory for Minnesota - Phase V = \$1,500,000 (expires 06/30/18) - Budget includes designated contracts: \$200,000 for MN.IT; \$150,000 for DNR Resource Assessment Office; \$300,000 for St. Croix Watershed Research Station. - Budget includes \$69,270 for "Direct and Necessary Expenses", of which \$54,020 is for division and regional program management (to be revised). - Statewide natural resource dataset - Proposer reduced amount requested from \$1,644,270 to \$1,608,750. 	6.56	9,9,9,9,9,8,8,7,7,7,7,6,5,5,0,0	16	0		
7	008-A	Do Neonicotinoids Pose a Risk to Minnesotas Birds?	U of MN [Ponder, Julia]	\$349,767	Statewide	<ul style="list-style-type: none"> - Full funding. - Innovative and necessary. Fund at full request. 	<ul style="list-style-type: none"> - Budget includes designated contract: \$87,010 for MN DNR; \$104,295 for Southern Illinois University - Carbondale - Wildlife - Neonicotinoids 	6.56	9,9,9,9,9,9,9,8,8,6,5,4,4,3,3,1	16	0		
8	026-A	Tree Retention Following Harvest: Maximizing Benefits for Wildlife	U of MN - Duluth NRRRI [Niemi, Gerald]	\$232,310	Statewide	<ul style="list-style-type: none"> - This will lead to science based solutions. - Full funding but not double-pay for same co-Pis on 015-A. - So, so. - 1 of 30 < \$300,000. 	<ul style="list-style-type: none"> - Forestry 	6.53	9,9,8,8,8,8,7,7,7,7,6,5,5,3,1	15	0		
9	007-A	Feasibility of Restoring Elk to Northeastern Minnesota	U of MN [Forester, James]	\$325,541	Northeast	<ul style="list-style-type: none"> - Full funding. - Seems like a lot of money to just study something we already know will work. I'd rather fund bringing some elk here, if anything. - Eastern Elk don't move has much as western elk. Might be worth a try. - Fund at \$300,000. - For \$300,000. 	<ul style="list-style-type: none"> - Project appears to be requesting to update data for MN Land Cover dataset funded by ENRTF beginning 07/01/14 and not scheduled to be completed until 06/30/17. - Wildlife 	6.50	9,9,9,8,8,8,8,8,6,5,5,4,4,3,2	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
10	009-A	Prairie Butterfly Conservation, Research and Breeding - Phase 2	Minnesota Zoo [Runquist, Erik]	\$956,042	NW, SW	<ul style="list-style-type: none"> - \$500,000 - \$500,000 - \$500,000 - Seems expensive and not sure that it is that valuable. DNR should not be getting so much - nearly half of it. - Endangered Butterflies including the Minnesota Butterfly. Praire pollinators. - Fund at 50%. Important work! - For \$500,000. 	<ul style="list-style-type: none"> - Joint proposal with DNR: MN Zoo request = \$551,050; DNR = \$438,992 - Related open appropriations: ML 2014 - Imperiled Prairie Butterfly Conservation, Research and Breeding Program = \$625,000 (expires 06/30/2017) - Budget includes capital expenditures over \$5,000: \$34,000 for 2 hoop houses. - Budget includes \$24,632 for DNR "Direct and Necessary Expenses". - Pollinators - Proposer reduced amount requested from \$990,042 to \$956,042. 	6.44	9,9,9,7,7,7,7,7,7,7,5,5,5,4,1	16	0		
11	006-A	Sentinel Lakes Monitoring and Data Synthesis	MN DNR [Tremel, Melissa]	\$401,623	NW, NE, SW, SE	<ul style="list-style-type: none"> - No direct and necessary expenses. - \$300,000 - When will DNR do this? - Good dataset. I am struggling to see the outcome of this project. - \$290,000 - Not a good use of money. Expensive. We don't need to test lakes every year - 5 years is often enough. - Hopefully last phase. Fund at \$300,000. 	<ul style="list-style-type: none"> - Related open appropriations: ML 2013 - Sustaining Lakes in a Changing Environment - Phase II = \$1,200,000 (expires 06/30/2016). - Budget includes \$28,173 for "Direct and Necessary Expenses". - Water 	6.38	8,8,8,8,7,7,7,7,6,6,6,5,5,5,4	16	0		
12	011-A	Assessing Vegetations Control on Minnesota's Groundwater	U of MN [Ng, Gene-Hua (Crystal)]	\$212,964	Statewide	<ul style="list-style-type: none"> - Recharging data is critical. - Full funding. - Unsure if really needed. - Unknown vegetation effect. Full funding. - 1 of 30 < \$300,000. 	<ul style="list-style-type: none"> - Budget includes potentially ineligible item: \$3,000 for desktop computer. 	6.19	9,9,9,9,8,8,8,7,7,6,5,5,3,1,0	16	0		
13	015-A	Emerald Ash Borer and Black Ash: Wildlife Impacts	U of MN - Duluth NRRRI [Niemi, Gerald]	\$334,218	Statewide	<ul style="list-style-type: none"> - Full funding. - Full funding. 		6.19	8,8,8,8,7,7,7,7,6,6,6,5,5,5,1	16	0		
14	005-A	Wild Bee Surveys in Minnesotas Prairie-Forest Habitats	MN DNR [Boyd, Crystal]	\$707,364	Central, Metro, NW, SW, SE	<ul style="list-style-type: none"> - \$0 - \$500,000 - \$600,000 - This just never ends; costs too much and for what? - Question the Direct and necessary costs factored by the agency. - Wild bees are likely as important as honeybees at the end of the day. - For \$500,000; Coordinate efforts with other investigators. 	<ul style="list-style-type: none"> - Related open appropriations: ML 2014 - "Wild Bee Pollinator Surveys in Prairie-Grassland Habitats" = \$370,000 (expires 06/30/2016). - Budget includes \$34,664 for "Direct and Necessary Expenses". - Pollinators - Statewide natural resource dataset 	6.06	9,9,9,8,8,8,8,8,7,7,6,5,3,2,0,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
15	013-A	Insecticide Exposure Risk of Wildlife on Public Grasslands	MN DNR [Davros, Nicole]	\$263,299	Central, SW, SE	<ul style="list-style-type: none"> - No direct and necessary expenses. - Full funding. - Not direct and necessary. - I like this approach to drift and exposure. - Full funding. Need to know how this impacts to define BMPs. - 1 of 30 < \$300,000. 	<ul style="list-style-type: none"> - Budget includes \$4,799 for "Direct and Necessary Expenses". - Wildlife - Pollinators 	5.94	9,9,9,8,8,7,7,7,6,6,5,5,4,2,2,1	16	0		
16	023-A	Protecting Native Brook Trout: Temperature, Streamflow and Hydrogeology	Minnesota Geological Survey [Tipping, Bob]	\$119,858	SE	<ul style="list-style-type: none"> - Full funding. - Not really valuable. - 1 of 30 < \$300,000 - unique equipment use could be very revealing. 	<ul style="list-style-type: none"> - Budget includes designated contract: \$8,300 for MN DNR; \$12,800 for Oregon State University 	5.63	9,9,8,8,8,7,7,7,4,4,3,3,2,2,2	16	0		
17	002-A	Minnesota Vegetative Buffer Assessment and Prioritization	U of MN [Mulla, David]	\$170,421	Statewide	<ul style="list-style-type: none"> - \$0 - Timed with current buffer law? Emerging issue? - Applicable. - Full funding. - Jumpstart with emerging issues funds. - Prioritization critical to buffer work. - Coordinate with DNR and counties on mapping; 1 of 30 < \$300,000. 	<ul style="list-style-type: none"> - Unknown what funding available in FY16-17 buffer initiative appropriations. - Budget includes potentially ineligible expense: \$6,500 for computers. - Agriculture - Water 	5.31	9,9,8,8,8,8,8,7,7,4,4,3,2,0,0,0	16	0		
18	018-A	Minnesota: How Much Water? How is it Changing?	U of MN [Nieber, John]	\$702,231	Statewide	<ul style="list-style-type: none"> - \$400,000 - Make data accessible and user friendly. - How will this information translate...might want to. - For \$400,000 - limit proposal to high water withdrawal areas, metro, central sands. 	<ul style="list-style-type: none"> - Budget includes designated contract: \$129,600 for USGS - Water 	5.06	8,7,7,7,6,6,6,6,5,5,5,5,3,3,2,0	16	0		
19	014-A	Enhancing Forest Inventory Using Multiple Remote Sensing Technologies	MN DNR [Kepler, Dennis]	\$1,053,638	Statewide	<ul style="list-style-type: none"> - \$0 - \$1,000,000 - Unsure of any real value; way too expensive. - Full funding to improve inventory and us greater understanding. - Optimism low on this. Fund at \$300,000. - For \$1,000,000. 	<ul style="list-style-type: none"> - Related appropriations: ML 2013 - Improved Rapid Forest Ecosystem and Habitat Inventory = \$262,000 (expired 06/30/15) - Budget includes designated contract: \$50,000 for U of MN; \$50,000 for Northland Technical College. - Budget includes capital expenditures over \$5,000: \$30,000 for 3-survey grade GPS units - Budget includes \$63,837 for "Direct and Necessary Expenses". - Forestry 	4.81	9,8,8,8,7,7,6,6,5,5,4,4,0,0,0,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	Attachment #2	
												SELECTED	LCCMR Recommendation
20	004-A	A Statewide Monitoring Network for Minnesota's Changing Habitats	MN DNR [Carlson, Bruce]	\$645,821	Statewide	- \$450,000; no direct and necessary expenses. - \$400,000 - \$450,000 - Outcome? Collaboration? - \$400,000 - Not necessary. Based on climate change speculation, so just not based on facts. - Begin with grasslands in prioritization of work. Fund at \$400,000.	- Related open appropriations: ML 2015 - MN Biological Survey = \$2,450,000 (expires 06/30/17) - Budget includes designated contract: \$56,000 for MN.IT - Travel budget includes both a rental fee and a mileage fee. - Budget includes \$52,621 for "Direct and Necessary Expenses". - Statewide natural resource dataset	4.81	9,8,7,7,7,6,6,6,5,5,4,3,3,1,0,0	16	0		
21	012-A	State Spring Inventory for Resource Management - Phase 2	MN DNR [Falteisek, Jan]	\$518,499	Statewide	- \$250,000; no direct and necessary expenses. - \$350,000 - Supplant? Seek old data. - \$350,000 - Not necessary. - Rethink collection method. \$350,000. - For \$350,000 - need more worker bee and less supervisor and professional involvement.	- Related open appropriations: ML 2014 - State Spring Inventory for Resource Management and Protection" = \$200,000 (06/30/2017) - Budget includes designated contract: \$15,000 for MN Geological Survey; \$20,000 for MN.IT - Budget includes \$46,506 for "Direct and Necessary Expenses". - Water resources data - Statewide natural resources dataset	4.50	9,7,7,7,6,6,6,5,5,4,3,3,2,2,0,0	16	0		
22	017-A	Promoting Prairie Pollinators: Bee Diversity in Fragmented Prairies	U of MN [Moeller, David]	\$598,569	Central, NW	- \$500,000 - Consider removing Activity 2 from the proposal. Is this being done by others? Plan to collaborate with other. - So many bee studies, they seem to overlap and duplicate. Not sure how valuable and the true value. Better than others if they actually put the bee habitat on the ground. - Good information and response. Would like to see more collaboration and coordination.	- Budget includes house rental in western MN at \$6,000/month. - Travel budget includes request to rent vehicles and pay for fuel rather than mileage rate. - Proposed work is partly duplicative of current ENRTF-funded DNR wild bee survey. Differences include increased # of site comparisons, expanded geographic range, and additional analysis of site size, site isolation, and bee and plant relationships. - Wildlife - Pollinators	4.00	9,7,7,7,6,6,5,4,4,3,2,2,1,1,0,0	16	0		
23	031-A	Habitat Use of Minnesota's Rarest Rodent [WITHDRAWN]	Leech Lake Band of Ojibwe [Mortensen, Steve]	\$90,062	Central	- PROPOSAL WITHDRAWN BY PROPOSER.		N/A	N/A	N/A	N/A		
24	B. Water Resources (27 Proposals / Subtotal \$11,646,275)												
25	051-B	Tiny Cheap Sensors for Pollutants Monitoring in Waters	U of MN [Cui, Tianhong]	\$508,878	Statewide	- Full funding. - Try to reduce some costs, but good experiment. - \$500,000 - Can they partner with 047-B?	- Potential patent and/or related future income to ENRTF per 116P.10. - Timeline requirements are unclear - somewhere between 3 and 3.5 years.	8.06	9,9,9,9,9,9,8,8,8,8,8,7,6,5	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
26	043-B	Membrane-Based Process for Decentralized Drinking Water Production	U of MN [Romero-Vargas Castrillón, Santiago]	\$191,304	Statewide	- Full funding. - Great project. - Full funding. - Good project, if it can do what they claim. Good value and a commercial future is real. - Innovative...full funding. - 1 of 30 < \$300,000; home/farm scale nitrate treatment will be necessary for all rural residents in coming decades.	- Budget includes capital expenditures over \$5,000: \$63,795 to construct one lab-scale forward osmosis system and membrane distillation system and one forward osmosis and membrane distillation pilot scale water purification unit. - Potential patent and/or related future income to ENRTF per 116P.10.	7.63	9,9,9,9,9,8,8,8,7,7,7,7,6,5,5	16	0		
27	035-B	Neonicotinoid Insecticide Effects on Aquatic and Soil Communities	U of MN [Arnold, William]	\$412,000	Statewide	- Full funding. - Fund at \$400,000. - These chemical are used everywhere - should be a high priority to understand aquatic effects.	- Neonicotinoids - Potential emerging issue.	7.25	9,9,9,9,9,9,8,8,8,7,7,5,4,3,3	16	0		
28	036-B	Restoring Native Mussels for Cleaner Streams and Lakes	MN DNR [Davis, Mike]	\$744,798	Statewide	- No direct and necessary expenses. - Full funding. - Too expensive, should be put toward small requests with more value & end date. Seems like a project that would never quit and replaces what the DNR is already supposed to be doing. - Great collaborative! Full funding. - Mike Davis is a true expert. This is a great partnership with the Zoo.	- Request includes capital expenditures over \$5,000: \$16,000 for Aquaneering fish habitat system; \$5,000 for water transport trailer and tank. - Budget includes \$10,000 for out-of-state travel. - Budget includes \$58,948 for "Direct and Necessary Expenses"	7.25	9,9,9,9,9,9,9,9,8,8,7,6,4,2,0	16	0		
29	040-B	Quantifying Bacteria for Better Wastewater Treatment Process Control	U of MN [LaPara, Timothy]	\$398,592	Statewide	- I like the project and the fact that there could be tools to work this project. - Good, but are we getting ahead of regulations that may never come? - Full funding - Good idea- it is amazing that we don't understand these fundamentals of waste treatment.	Budget includes designated contract: \$37,500 for UMN Genomics Center	7.19	9,9,8,8,8,8,8,7,7,7,7,7,6,6,3	16	0		
30	053-B	Eliminating Contaminants to Protect Endangered Native Fish/Mussels	University of St. Thomas [Wammer, Kristine]	\$287,448	Statewide	- Decent value, but not sure if this substantively is valuable. - Good partnership! Full funding. - I like the multi-university team. One of 30 projects under \$300,000.	- Budget includes capital expenditures over \$5,000: \$11,085 for UV photoreactor - Budget includes designated contract: \$87,017 for Gustavus Adolphus; \$33,000 for UMN - Crookston	6.88	9,9,8,8,8,8,8,8,8,7,7,7,6,4,3,2	16	0		
31	049-B	Understanding Bedrock Fracture Flow to Improve Groundwater Quality	Minnesota Geological Survey [Runkel, Anthony]	\$183,627	Metro, SE	- Full funding. - Another key to water quality. Full \$. - 1 of 30 <\$300,000; will greatly advance knowledge of hydrology of Twin Cites Basin.	- Budget includes designated contract: \$40,000 for University of Guleph, Ontario	6.75	9,9,9,9,8,8,8,8,7,7,6,6,5,5,3,1	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
32	046-B	Reducing Salt and Metal Removal Costs with Microbes	U of MN [Bond, Daniel]	\$596,599	Statewide	<ul style="list-style-type: none"> - Full funding. - Seems expensive, but an interesting natural type filter. - Fund at \$500,000. - For \$500,000; cool extension of Sudan mine extremeophiles. 	<ul style="list-style-type: none"> - Related open appropriations: ML 2013 - Harnessing Soudan Mine Microbes: Bioremediation, Bioenergy and Biocontrol = \$838,000 (expires 06/30/16) - Budget includes \$3,000 for journal publication fees. - Budget includes capital expenditures over \$5,000: \$47,800 to build 8 water treatment reactors. - Potential patent and/or related future income to ENRTF per 116P.10. - Sulfates 	6.44	9,8,8,8,8,8,7,7,7,7,6,6,3,3,2	16	0		
33	037-B	Tracking and Preventing Harmful Algal Blooms	Science Museum of Minnesota - St. Croix Research Station [Engstrom, Daniel]	\$764,300	Statewide	<ul style="list-style-type: none"> - \$500,000 - Full funding. - Merge 37 and 38 for emerging issue. - Emerging issue. These projects [37 and 38] should be considered together. - Emerging issue, combine with 038-B. - Preventing should be the focus, tracking them is maybe not worth the investment. - Emerging issue - full funding. - Coordinate with 038-B. 	<ul style="list-style-type: none"> - Budget includes designated contract: \$100,000 for USGS - Addresses research questions from 06/25/15 LCCMR presentation of: 1. Improving ability to predict when and where blue-green blooms will occur ("early warning"); 2. Determining what conditions favor the production of blue-green algae; however not specifically production of toxins; 3. Potentially examining what factors can be controlled or moderated. - Blue-green algae - Potential emerging issue. 	6.44	9,9,9,9,9,8,8,8,7,6,5,4,3,0,0	16	0		
34	038-B	Increasing Harmful Algal Blooms in Minnesota Lakes	U of MN - St. Anthony Falls Laboratory [Hondzo, Miki]	\$395,249	Statewide	<ul style="list-style-type: none"> - Full funding. - Merge 37 and 38 for emerging issue. - Emerging issue. These projects [37 and 38] should be considered together. - Emerging issue, combine with 037-B. - Better value than 37B. What is the difference? It still should cut cost. - Emerging issue - full funding. - Coordinate with 037-B. 	<ul style="list-style-type: none"> - Budget includes capital expenditures over \$5,000: \$8,792 for laboratory fluorometer - Budget includes \$7,500 for conference attendance and some unidentified portion of \$6,025 for journal publication fees. - Request includes potentially ineligible items: \$12,300 for travel/lodging for citizen work group; some undesignated portion of \$6,025 for food for citizen gatherings. - Addresses research questions from 06/25/15 LCCMR presentation of: 1. Improving ability to predict when and where blue-green blooms will occur ("early warning"); 2. Determining what conditions favor the production of toxins; 3. Maybe examining what factors can be controlled or moderated; 4. Maybe determining if toxins persist and when water becomes safe. - Blue-green algae - Potential emerging issue. 	6.38	9,9,9,9,9,8,8,8,7,7,5,4,2,0,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
35	083-B	Integrating Targeted Watershed Planning Tools with Citizen Involvement	Minnesota State University, Mankato Water Resources Center [Musser, Kimberly]	\$169,108	Statewide	- I like the project, I am not sure I understand what the upfront tool assessment is required. - Full funding. - So-so project. Is it really that valuable? - Full funding. - 1 of 30 <\$300,000; high leverage %.		6.38	9,9,9,8,8,8,7,6,5,5,5,4,4,4,3	16	0		
36	073-B	Removal of Nitrates from Minnesota Waters	U of MN [Wackett, Lawrence]	\$198,256	Statewide	- Good price, great project. - Full funding. - 1 of 30 < \$300,000; clever approach.	- Budget includes designated contract: \$40,000 for UMN Biotechnology Institute - Potential patent and/or related future income to ENRTF per 116P.10. - Unclear how proposed technology would be deployed if developed.	6.31	8,8,8,8,8,7,7,7,7,6,5,5,4,3,3	16	0		
37	039-B	Is Minnesotas Groundwater Safe to Drink?	U of MN [Hozalski, Raymond]	\$299,829	Statewide	- \$250,000 - groundwater only. - Full funds. - 1 of 30 < \$300,000; \$250,000 only for Groundwater, not piping systems.	- Budget includes designated contract: \$20,000 for UMN Genomics Center	6.19	9,9,9,8,8,8,8,7,6,5,5,5,3,2,2	16	0		
38	042-B	Morrison County Performance Drainage and Hydrology Management	Morrison SWCD [McLennan, Helen]	\$209,600	Central	- \$0 - Need data. - Reluctant to do this. - Full. - 1 of 30 <\$300,000 - very impressive group of conservation leaders.	- Equipment/Tools/Supplies needs better breakdown and may include potentially ineligible expenses: \$75,000 for "Trimble survey laser equipment/software/vehicle/laptop" - Travel budget is \$11,000 for "fuel/vehicle maintenance" - - Proposer reduced amount requested from \$261,000 to \$209,600.	6.14	9,9,9,9,8,8,7,7,6,4,1,0,0	14	1		
39	050-B	Protecting Drinking Water Aquifers-Phase 2	U. S. Geological Survey [Bumgarner, Johnathan]	\$433,400	Statewide	- Full funding. - Fund @ \$400,000. - Need to better understand these aquifers for planning and permitting	- Related open appropriations: ML 2014 - Protection of State's Confined Drinking Water Aquifers = \$394,000 (expires 06/30/17) - Budget includes designated contract: \$151,000 for USGS; \$34,000 for MN Geological Survey	6.13	9,9,9,9,8,7,7,7,6,5,5,4,4,2,0	16	0		
40	044-B	Salt Impacts to Minnesota Lakes, Rivers and Groundwater	U of MN [Gulliver, John]	\$497,276	Statewide	- \$400,000 - Full funding. - Full funding. - Good for Morris and communities struggling with salt discharge. - Full funding. - For \$400,000	- Budget includes designated contract: \$66,300 for Connie Fortran; \$29,111 for Peter Weiss	5.75	9,9,9,8,8,8,7,6,5,5,4,3,3,3,2	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
41	045-B	Assessing Wetland Restorations for Improved Water Quality	U of MN [Finlay, Jacques]	\$420,000	Central, NW, SW	- Full funding. - There are a lot of studies already on this topic, seems duplicative. - Long overdue. Full funding. - For \$350,000.	- Budget includes \$1,000 for journal publication fees	5.50	8,8,8,7,7,7,6,6,6,5,5,5,4,3,2,1	16	0		
42	060-B	Sulfate/Wild-Rice Municipal Wastewater Treatment Plant Alternative Analysis	MPCA [Kyser, Scott]	\$180,000	Metro	- \$0 - Need additional discussion. I don't understand what this passthrough is necessary. - Full funding. - Not necessary. Seems like we are just putting the cart before the horse. There is no sulfide standard yet, so not needed by PCA. - Full funding. Need exists. - 1 of 30 < \$300,000; low cost to find a solution that could be widely adopted.	- Entire budget request of \$180,000 is for contracts to be determined through RFP. - Sulfates	5.31	8,8,8,7,7,7,7,6,5,5,4,3,3,0,0	16	0		
43	054-B	Engineered Biofilter for Sulfate Removal from Mine Waters	U of MN [Behrens, Sebastian]	\$439,817	NE	- Great, well thought out project. - Need mining investment...full funding. - A novel approach to bio-engineering for a pressing need.	- Budget includes designated contract: \$12,000 for UMN Genomics Center; \$34,000 for UMN Research Analytical Lab. - Potential patent and/or related future income to ENRTF per 116P.10. - Sulfates	4.94	8,7,7,7,7,6,6,5,5,5,4,4,3,3,2,0	16	0		
44	055-B	Novel Algae Bioreactors for Nitrogen and Phosphorus Removal	U of MN [Ishii, Satoshi]	\$350,000	Statewide	- I don't/didn't understand the process or end product. - Are they qualified? - Novel approach for bioengineering.	- Budget includes designated contract: \$5,800 for UMN Genomics Center; \$2,700 for UMN Soil and Water Testing Lab	4.94	8,8,7,7,6,6,6,5,5,4,4,4,3,3,3,0	16	0		
45	088-B	Surface Water Bacterial Treatment System Pilot Project	Vadnais Lake Area Water Management Organization [Corcoran, Brian]	\$991,600	Metro	- \$500,000 - \$500,000 - Needed now - full funding. - \$500,000; I think they can downsize to prove the concept.	- Budget includes some undesignated portion of \$52,000 for conference attendance and journal publication fees. - TMDL	4.53	9,8,8,7,7,7,6,5,5,3,2,1,0,0,0	15	1		
46	047-B	Innovative Assessment of Minnesotas Surface Waters from Space	U of MN [Finlay, Jacques]	\$458,000	Statewide	- \$350,000 - \$350,000 - \$350,000 - \$350,000...add limnologist to team. - For \$350,000. - Can they partner with 051-B?	- Budget includes some undesignated portion of \$9,000 for conference attendance and \$2,000 for journal publication fees. - Travel budget includes both vehicle rental and vehicle mileage fees. - Budget includes capital expenditures over \$5,000: \$20,000 for YSI Sensor	4.50	8,7,7,7,7,6,5,5,4,4,3,3,2,2,2,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
47	070-B	Predicting Climate Change Effects on Mercury in Peatlands	U of MN [Nater, Ed]	\$643,088	Statewide	- \$600,000 - \$600,000 - Climate change speculation, not great value. - Fund at \$500,000. - For \$500,000.	- Budget includes \$18,000 for out of state travel.	4.38	9,8,7,6,5,5,5,5,5,4,3,2,1,0,0	16	0		
48	052-B	Perfluorochemical Contamination Effects on Amphibians and Wetland Ecosystems	U of MN - Duluth NRRI [Schoff, Patrick]	\$250,954	Statewide	- Not clear on what the goal or outcome would be? What's the value, then? - Necessary. Frogs are canaries in wetland health. Full \$. - 1 of 30 <\$300,000; not sure we learn anything important here, the chemicals are no longer made or distributed in MN and they are already found everywhere on the globe.	- Proposer changed project manager from Jennifer Olker to Patrick Schoff.	3.63	8,7,6,6,6,5,5,3,2,2,1,1,1,0,0	16	0		
49	061-B	Vanishing Winter: Effects on Lakes Small to Large	U of MN - Large Lakes Observatory [Sterner, Robert]	\$600,000	NE	- \$0 - \$500,000 - Uncertain science. - \$500,000. - For \$500,000.	- Related open appropriations: ML 2013 - Evaluation of Lake Superior Water Quality Health = \$600,000 (expires 06/30/16) - Request includes \$5,000 for "Educator support, busing, and subsistence" - Budget amount requested is \$600,000 on cover page and \$599,590 on budget page.	3.63	7,7,7,6,6,5,5,4,4,3,3,1,0,0,0,0	16	0		
50	082-B	Hydrologic Trends: Identify, Manage and Adapt	Freshwater Society [Gerber, Darrell]	\$682,000	Statewide	- \$400,000 - This project wasn't well thought out. I am not sure I understand the need or the intended response. - Not convincing that they were targeting or focusing on the area with biggest needs.	- Budget includes designated contract: \$240,000 for USGS; \$30,000 for Science Museum of MN; \$223,000 for Rebecca Kluckhohn and Joel Toso; \$50,000 for UMN - Budget includes potentially ineligible expense: salary for executive director = \$44,000	2.44	7,7,6,4,3,3,3,3,1,1,1,0,0,0,0,0	16	0		
51	056-B	On-Farm Prairie Filter Strips: Optimizing Water Quality Benefits	U of MN - Water Resources Center [Sleeper, Faye]	\$340,552	Central, SW, SE	- How is this different...what will be new and innovative here? What about the infiltration risk? - So long as this is not supplanting what the DNR should already do. - No consideration of the risks of infiltrating water into recharge area. Poor site selection.	- Budget includes designated contract: \$17,000 for Land Stewardship Project	2.38	6,6,5,4,4,4,3,2,2,1,1,0,0,0,0,0	16	0		
52	C. Environmental Education (12 Proposals / Subtotal \$3,449,709)												
53	094-C	Standards-Based Dakota Indian Land Curriculum for 1,250 Students	Dakota Wicohan [Peterson, Teresa]	\$197,104	Statewide	- Very impressive project. - Full funding. - Should be a history class in school. - Full funding. - 1 of 30 < \$300,000; deserves statewide exposure.	- Budget includes designated contract: \$48,000 for Darlene St. Clair; \$24,000 for Teresa Peterson; \$18,000 for Heather Peters; \$10,000 for MN Valley History Learning Center; \$5,000 for MN Humanities Center; \$5,000 for St. Cloud State University; \$16,000 for Smythe Graphics	8.00	9,9,9,9,9,9,9,9,9,9,7,7,7,7,5,5	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
54	105-C	Promoting Stewardship through Student Mentoring and River Monitoring	Southwest Minnesota State University [Deaver, Emily]	\$39,490	SW	- Pretty good project. - Full funding (\$40,000). - Low price, good value. - Full funding. - 1 of 30 < \$300,000; WOW a great project for wider involvement in water quality understanding.	- Request includes approximately \$6,000 for bus transportation.	7.94	9,9,9,9,9,9,9,9,9,9,8,7,7,6,0	16	0		
55	090-C	Minnesota Conservation Apprentice Academy	Board of Water and Soil Resources [Gieseke, Jenny]	\$433,000	Statewide	- Great program. - Full funding. - Full support. - This needs to transition to general fund for BWSR; a fundamental for good operations.	- Related open appropriations: ML 2014 - Minnesota Conservation Apprenticeship Academy = \$392,000 (expires 06/30/17) - Budget includes designated contract: \$427,000 for Conservation Corps MN	7.07	9,9,9,9,9,8,8,8,7,7,5,3,1	15	0		
56	101-C	The New Prairie Sportsman Statewide Broadcast Video Project	Pioneer Public Television [Bakken, Timothy]	\$300,000	Statewide	- I really like this program and thing it should be fully funded. - Make sure this is objective. - Full funding. - 1 of 30 < \$300,000; good editorial vision and ability to expand audience.		6.69	9,8,8,8,8,7,7,7,7,7,6,5,5,0	16	0		
57	092-C	Youth-Led Energy Action Projects in 50 Minnesota Communities	Prairie Woods Environmental Learning Center [Foster, Shelli-Kae]	\$450,500	Statewide	- I missed this presentation but this is a compelling proposal. - Full funding. - Okay if we could lower the cost; too expensive. - \$300,000 - WOW. Lets help them transition to the self supported model.	- Related open appropriations: ML 2014 - Youth-led Sustainability Initiatives in 40 Greater Minnesota Communities = \$350,000 (expires 06/30/16) - Budget includes designated contract: \$50,000 for St. John's University; \$50,000 for Laurentian Environmental Learning Center - Budget includes request for \$40,000 for school district reimbursement of costs for substitute teachers and transportation costs.	6.56	9,9,8,8,7,7,7,7,7,6,6,5,5,4,3	16	0		
58	096-C	Creating Southwest Minnesota High School Student Wildlife Champions	Minnesota Zoo [Strecker, Carol]	\$147,400	SW	- Full funding. - Want to make sure they don't just become reliant on this every year, if it works. - Full funding. - 1 of 30 < \$300,000; great SW MN outreach for a popular program.		6.56	9,8,8,7,7,7,7,7,6,6,6,6,5,5,4	16	0		
59	093-C	Hunters Choice: Alternative Ammunition	U of MN [Ponder, Julia]	\$133,054	Statewide	- Full funding. - Not sure we need this. - Full funding. - 1 of 30 < \$300,000; a top priority.		6.06	9,9,9,9,9,9,9,8,8,7,4,3,3,1,0,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
60	112-C	Master Water Steward Program Expansion	Freshwater Society [Knapp, Peggy]	\$116,000	Statewide	- I missed the presentation but I am well aware of the quality of this program and feel it should be fully funded. - Full funding. - It works. Full funding. - 1 of 30 < \$300,000; effective in past - should go statewide.	- Equipment/Tools Supplies budget has inadequate detail: \$5,000 for "program materials".	5.69	9,9,8,8,8,8,8,7,7,6,4,3,3,2,1,0	16	0		
61	099-C	Expanded Wolves at our Door program	International Wolf Center [Kline, David]	\$240,012	Statewide	- \$0 - Pretty good program...I appreciate the lessons kids learn and how they approach wolves... - Full funding. - THIS SEEMS TO BE EVERY YEAR. - Full funding. - 1 of 30 < \$300,000; popular and needs statewide exposure.	- Related open appropriations: ML 2014 - Wolf Management Education = \$120,000 (expires 06/30/16)	5.53	9,9,9,9,9,7,7,5,5,4,1,0,0,0	15	1		
62	111-C	"Toasted" Birdhouse Market Readiness Test	U of MN - Duluth NRRRI [Hueffmeier, Ryan]	\$117,846	Statewide	- \$0 - Replaces treated wood with heated wood. - Full funding. - Seems unnecessary. - An eco-friendly birdhouse...full funding. - 1 of 30 < \$300,000.		4.69	9,9,8,8,8,7,7,6,5,3,2,2,1,0,0,0	16	0		
63	091-C	Improving Outdoor Classrooms for Education and Recreation	MN DNR [Kerber, Amy Kay]	\$766,563	Statewide	- No direct and necessary expenses. - \$500,000 - This appears to be a really good project. I am really concerned about the cost and how this supplants. - \$500,000 - Activity 1 only. - \$500,000 - For \$500,000.	- Budget includes designated contract: \$440,000 for Conservation Corps MN - Budget includes \$20,363 for "Direct and Necessary Expenses"	4.56	8,7,7,7,7,7,6,6,5,3,3,3,2,1,1,0	16	0		
64	120-C	Connecting Every 4th Grader in State Parks	MN DNR [Conrad, Jennifer]	\$508,740	Statewide	- No direct and necessary expenses. - This was a poorly thought out program and should be re-tooled and presented next year. - Shaky plans. - Rethink and bring back. - Retool this and come back next year with a plan on what kids will do at state parks.	- Budget includes designated contract: \$40,000 for Conservation Corps MN - Request includes approximately \$460,000 for bus transportation. - Budget includes \$8,740 for "Direct and Necessary Expenses" - Final proposal did not submit budget document or respond to request to provide one. Draft version of budget used.	3.13	8,7,5,4,4,4,3,3,3,2,2,2,1,0,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	Attachment #2	
												SELECTED	LCCMR Recommendation
65	D. Aquatic and Terrestrial Invasive Species (7 Proposals / Subtotal \$7,244,841)												
66	124-D	White Nose Bat Syndrome Biological Control - Phase 2	U of MN [Salomon, Christine]	\$452,532	Statewide	- Full funding. - Bats are not a desirable animal to pour money into. Maybe nature's way to level the population. Bats are bountiful in numbers where we live. - Full funding...proactive study.	- Related open appropriations: ML 2013 - Harnessing Soudan Mine Microbes: Bioremediation, Bioenergy and Biocontrol = \$838,000 (expires 06/30/16) - Budget includes \$1,500 for journal publication fees. - Terrestrial Invasive Species	7.56	9,9,9,9,9,8,8,8,8,7,7,7,6,0	16	0		
67	123-D	Advancing Microbial Invasive Species Monitoring from Ballast Discharge	U of MN [Hicks, Randall]	\$368,995	NE	- Full funding. - Full funding.	- Budget includes designated contract: \$44,500 for Northeast-Midwest Institute - Budget includes \$2,045 for journal publication fees. - Support letter from PCA and DNR. - Ballast water - Aquatic Invasive Species	6.75	9,9,9,8,8,8,7,7,7,6,5,5,3,3	16	0		
68	122-D	Using Membranes to Treat Lake Superior Ballast Water	U of MN [Romero-Vargas Castrillón, Santiago]	\$151,091	NE	- Where are the shipping interests? - Ballast water research is critical to the reduction/elimination of invasive species transport. - Full funding. - Good cost/value ratio. Tangible outcomes that could actually be used. - Full funding. - 1 of 30 < \$300,000.	- Budget includes potentially ineligible expense: \$1,120 for computer. - Ballast water - Aquatic Invasive Species	6.69	9,9,8,8,8,7,7,7,7,7,5,5,3,3	16	0		
69	121-D	Minnesota Invasive Terrestrial Plants and Pests Center - Phase 3	U of MN [Venette, Dr. Robert]	\$5,000,000	Statewide	- \$2,000,000 - \$3,000,000 - \$4,000,000 - why not General Fund monies also?? - Just too much money. A small amount of money doesn't seem like they would go ahead with other money, so just not feasible. - \$4,000,000...omit oak wilt. - \$4,000,000	- Related open appropriations: ML 2014 - Invasive Terrestrial Plants and Pests Center = \$1,450,000 (expires 06/30/22); ML 2015 - Minnesota Invasive Terrestrial Plants and Pests Center = \$5,000,000 (expires 06/30/23) - Terrestrial Invasive Species	6.63	9,9,9,9,8,8,8,7,7,6,6,5,4,3,0	16	0		
70	128-D	Elimination of Target Invasive Plant Species - Phase 2	Minnesota Department of Agriculture [Chandler, Monika]	\$752,100	Statewide	- Full funding. - Not convinced it's worth it. - Preemptive work that saves future costs. Full funding. - For \$600,000.	- Related open appropriations: ML 2013 - Elimination of Target Invasive Plant Species = \$350,000 (expires 06/30/16) - Budget includes designated contract: \$175,000 for Conservation Corps MN; \$22,500 for St. Croix River Association - Budget includes potentially ineligible costs: \$8,000 for 20 tablet computers. - Terrestrial Invasive Species	6.63	9,9,8,8,8,8,7,7,7,6,6,5,5,5,3	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	Attachment #2	
												SELECTED	LCCMR Recommendation
71	134-D	Invasive Carp Applied Research in Lake Nokomis Subwatershed	Minneapolis Park and Recreation Board [Arvidson, Adam]	\$189,936	Metro	- Full funding. - Reasonable cost, if they can produce outcomes. - Full funding.	- Budget includes designated contracts: \$89,959 for WSB Engineers; \$26,000 for Blue Water Science. - Aquatic Invasive Species	6.40	9,9,9,8,8,8,7,7,7,5,4,3,0	15	1		
72	131-D	Winning the Dutch Elm Disease Battle - Phase 2	U of MN [Blanchette, Robert]	\$330,187	Statewide	- \$200,000 - Delivering tangibles, which is good.	- Related open appropriations: ML 2014 - Finding Disease Resistant Elm Trees in Minnesota = \$200,000 (expires 06/30/16) - Terrestrial Invasive Species	4.69	8,7,7,6,6,6,5,5,4,4,4,3,3,0	16	0		
73	E. Air Quality, Climate Change, and Renewable Energy (8 Proposals / Subtotal \$6,767,459)												
74	140-E	Cheap Solar Cells from Simple Roll-to-Roll Advanced Manufacturing	U of MN [Cui, Tianhong]	\$388,762	Statewide	- Full funding. - Full funding. - Intriguing product to develop. Shows great promise to becoming a real product. - Need venture capital investor.	- Budget includes potentially ineligible item: some portion of \$21,200 for computer server; some portion of \$6,800 for refreshments. - Potential patent and/or related future income to ENRTF per 116P.10.	7.44	9,9,9,9,9,8,8,8,8,7,7,7,5,0	16	0		
75	153-E	Solar Solutions to Minnesota Energy Poverty	Rural Renewable Energy Alliance [Edens, Jason]	\$490,429	Central	- Addresses low in. - Full funding. - Seems expensive. - Full to benefit people...but should be a partnership.	- Request is to build community solar garden. RFP category description indicates "funding for capital projects will not be considered." - Budget includes capital expenditure over \$5,000: \$211,311 for photovoltaic solar module; \$73,032 for ground-mount racking; \$32,080 for Sunergy inverters; \$23,527 for electrical systems; \$31,820 for helical piles; \$35,243 for fencing. - Budget includes designated contract: \$3,500 for Gausman and Moore; \$7,500 for Meyer Borgman and Johnson	6.50	9,9,9,8,8,7,7,6,6,6,6,5,3,0	16	0		
76	135-E	High Resolution Climate Projections to Aid Planning Efforts	U of MN [Snyder, Peter]	\$411,389	Statewide	- Full funding. - Expensive and just predicting the weather which none of us will be around to disprove anyways. - Full funding.	- Budget includes potentially ineligible item: \$20,000 for data server and data drives. - Budget includes \$6,000 for journal publication fees.	5.88	9,9,9,9,9,8,8,6,5,4,3,1,0,0	16	0		
77	151-E	Waste Heat Recovery with Efficient Thermoelectric Energy Generators	U of MN [Kortshagen, Uwe]	\$404,427	Metro	- \$400,000 - A real, usable proposal that, longterm, helps the environment, but could stand on its own, once developed. - Full, not for coal power plants.	- Equipment/Tools Supplies budget has inadequate detail: \$40,000 with no indication of what the money is for; \$30,000 for "lab supplies"	5.81	9,9,8,8,8,8,7,7,6,6,5,5,2,0,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
78	144-E	Geotargeted Distributed Clean Energy Initiative	Center for Energy and Environment [Nelson, Carl]	\$1,850,000	Statewide	<ul style="list-style-type: none"> - \$600,000 - Activity 1 and part of Activity 2. - \$600,000 - Activity 1 and scale back on Activity 2. - Good, but too expensive. - Activity 1 only. - Activity 1 & 2 for \$600,000 only. - For \$600,000; Xcel needs to be all in - an investor benefit. - For Activity 1. 	- Budget includes designated contract: \$200,000 for Energy Systems Consulting, LLC	5.63	9,9,8,7,7,6,6,6,5,5,5,3,3,0	16	0		
79	141-E	Clean Vehicles Fueled by Hydrogen from Renewable Ammonia	U of MN [Northrop, Will]	\$842,849	Metro, NW	<ul style="list-style-type: none"> - Wind to hydrogen already being done. - Good ideas. A unique, but feasible fuel. 	<ul style="list-style-type: none"> - Budget includes capital expenditures over \$5,000: \$20,000 for test engine; ~\$45,000 for building ammonia decomposition reactor prototype; ~\$60,000 for construction of fuel cell electric vehicle refueling system, and more (breakdown is confusing). - Potential patent and/or related future income to ENRTF per 116P.10. 	4.81	9,9,9,9,7,6,6,4,4,4,3,3,2,2,0,0	16	0		
80	149-E	Innovative Solar Energy Utilization for Minnesota Swine Farms	U of MN - West Central Research and Outreach Center [Johnston, Lee]	\$928,478	Central, NW, SW, SE	<ul style="list-style-type: none"> - This is being done by members of AgriGrowth. - Good,. Try to find cost reductions on solar panels. Maybe high estimates of those costs. See if a company would donate some panels if they get the research info too. - Ask MDA for funding. 	<ul style="list-style-type: none"> - Related open appropriations: ML 2014 - Transitioning Minnesota Farms to Local Energy = \$500,000 (expires 06/30/17) - Request involves capital construction; RFP category description indicates "funding for capital projects will not be considered." - Budget includes capital expenditures over \$5,000: \$70,000 for 7 chiller/air source heat pumps; \$80,000 for 10 electric heating systems; \$100,000 for 20 kW solar photovoltaic system; \$32,600 for 2 heating and cooling system controls. 	3.94	9,9,9,8,7,6,6,3,3,2,1,0,0,0,0,0	16	0		
81	148-E	Utilization of Dairy Farm Wastewater for Sustainable Production	U of MN [Heins, Bradley]	\$1,451,125	Statewide	<ul style="list-style-type: none"> - Try to maybe cut back some costs. Seems a little expensive, but exciting objective. - Ask MDA for funding. 	<ul style="list-style-type: none"> - Request is to build integrated dairy farm wastewater recycling system. RFP category description indicates "funding for capital projects will not be considered." - Budget includes capital expenditures over \$5,000: \$35,000 for automatic calf feeder; \$146,500 for aquaponic facility; \$221,500 for algal cultivation system. - Budget includes \$9,000 for journal publication fees. - Potential patent and/or related future income to ENRTF per 116P.10. 	3.69	9,9,8,8,7,6,6,3,2,1,0,0,0,0,0,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	Attachment #2	
												SELECTED	LCCMR Recommendation
82	F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat (10 Proposals / Subtotal \$4,697,617)												
83	169-F	Restoration/Monitoring of Winona's 40-acre Blufflands Natural Area	Winona State University [Mundahl, Neal]	\$99,427	SE	- Good project. - Full funding. - Don't see great value in this. - Full...no goats on dry prairie portion. - 1 of 30 < \$300,000	- Budget includes designated contract: \$20,000 for Driftless Land Stewardship; \$13,000 for Conservation Corps MN - Did they apply to Conservation Partners?	6.88	9,9,9,9,8,8,8,7,7,7,6,6,5,4,2	16	0		
84	154-F	Seeding Between the Lines: Permanent Habitat Within Rowcrops	Science Museum of Minnesota - St. Croix Research Station [Schottler, Shawn]	\$179,400	Statewide	- This is a pretty good project and it has a willing participant. - Full funding. - Reasonable cost. Something that could actually help the environment in a tangible way. - 1 of 30 < \$300,000; high leverage %.	- Budget includes designated contract: \$20,000 for Willow Lake Farm - Budget includes capital expenditures over \$5,000: \$25,000 for custom planter for 30 inch strips	6.44	9,9,8,8,8,8,8,7,7,7,6,5,3,2,0	16	0		
85	166-F	Restoring our Metro Lands and Waters: MeCC IX	Great River Greening [Buck, Wiley]	\$509,000	Metro	- \$500,000 - Questionable and too expensive. - For \$500,000.	- Related open appropriations: ML 2013 - Metropolitan Conservation Corridors (MeCC) - Phase VII: Restoring Our Lands and Waters = \$208,000 (expires 06/30/16); ML 2014 - Upland and Shoreline Restoration in Greater Metropolitan Area = \$300,000 (expires 06/30/17); ML 2015 - Metro Conservation Corridors Phase VIII - Enhancing Restoration Techniques for Improved Climate Resilience and Pollinator Conservation = \$400,000 (expires 06/30/18)	6.13	9,8,8,8,7,7,7,6,6,6,5,5,3,0	16	0		
86	159-F	Controlling Reed Canary Grass to Regenerate Floodplain Forest	Audubon Minnesota [Schlagenhaft, Tim]	\$218,500	SE	- Full funding. - Expensive and not really valuable. - No planting needed. Full funding. - 1 of 30 < \$300,000	- Budget includes designated contract: \$97,700 for UMN graduate research assistant; \$54,000 for UW-La Crosse graduate research assistant	6.00	8,8,8,8,7,7,7,6,6,5,5,5,4,0	16	0		
87	165-F	Forest Management for Mississippi River Drinking Water Protection	Crow Wing Soil and Water Conservation District [Barrick, Melissa]	\$350,000	Central	- \$300,000 - \$300,000 - To diminish development pressure...\$300,000. - For \$300,000.	- Budget includes designated contract: \$200,000 for Todd, Morrison, and Cass SWCD's - but there is no breakdown of allocations per individual SWCD	5.88	9,8,7,7,7,7,7,6,6,5,5,5,3,0	16	0		
88	155-F	Bee Pollinator Habitat Enhancement - Phase 2	U of MN [Spivak, Marla]	\$387,085	Statewide	- Only local native seeds. - Provides some good information for pollinators and lawns. - Full funding. - Good to focus on actual flowers for habitat. - Would like to see this roll out statewide.	- Related open appropriations: ML 2014 - "Enhancing Pollinator Landscapes" = \$864,000 (expires 06/30/2019) - Pollinators	5.75	9,8,8,8,8,8,7,7,6,6,5,5,3,2,2,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	SELECTED	LCCMR Recommendation
89	173-F	Restoring the City of Champlins Northern Gateway	City of Champlin [Tuominen, Todd]	\$2,000,000	Metro	- Bonding mentioned. Local support is huge here.	- Dollar amount being requested is unclear: cover page says \$2.0 million, activity budgets add up to \$9.63 million, and incomplete budget lists \$320,000. - Project time period is unclear: cover page says 2.5 years, main proposal says 1.5 years, and budget lists 2 years. - Proposal was not correctly filled out. - \$3.0 million proposal submitted to LSOHC for 2016. Inquiry made about relationship to this proposal and to provide clarity on budget - no response received.	5.33	9,9,9,9,8,7,7,6,6,1,0,0,0,0	15	1		
90	162-F	Measuring Prairie Fragment Connectivity: Pollen and Seed Dispersal	U of MN [Sullivan, Lauren]	\$556,000	NW	- \$300,000 - Fund at \$300,000...important to Minnesota Prairie Plan understanding. - I think it is too late to worry about this; fragmentation is complete and not reversible.	- Pollinators	5.31	7,7,7,7,7,6,6,5,5,5,4,4,3,0	16	0		
91	161-F	Prioritizing Walleye Spawning Habitat Restoration in Minnesota Lakes	U of MN [Herb, William]	\$288,205	Statewide	- 1 of 30 < \$300,000; with all the walleye stocking and with the inability to control lakeshore aquatic plant control I'm not sure this is needed.	- Budget includes \$945 for conference attendance. - Fisheries	4.93	9,9,8,8,7,7,5,5,4,4,3,2,2,1,0	15	0		
92	168-F	Agricultural Runoff Water Quality Treatment Analysis - Phase II	Blue Earth County Drainage Authority [Austinson, Craig]	\$110,000	SW	- 1 of 30 < \$300,000	- Budget includes designated contract: \$195,000 for Chuck Brandel, ISG - Proposer reduced amount requested from \$295,010 to \$110,000.	4.50	9,9,9,8,7,7,6,5,5,3,2,1,1,0,0,0	16	0		
93	G. Land Acquisition for Habitat and Recreation (9 Proposals / \$25,005,141)												
94	178-G	Mesabi Trail Segment Highway 135 to Embarrass	St. Louis and Lake Counties Regional Railroad Author [Manzoline, Robert]	\$1,200,000	NE	- \$500,000 - Can we get a local match and save some cost? - Fund @ \$500,000.	- Related open appropriations: ML 2014 - Mesabi Trail Development - Soudan to Ely Segment = \$1,000,000 (expires 06/30/17); ML 2015 - Mesabi Trail Development Soudan to Ely - Phase II = \$1,000,000 (expires 06/30/18) - Dollar amount being requested is unclear: Activity budgets = \$1,530,000; cover page and budget = \$1,200,000. - Related ENRTF funding history not indicated in budget.	7.31	9,9,9,9,9,9,8,8,7,6,6,6,5,5,4	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	Attachment #2	
												SELECTED	LCCMR Recommendation
95	175-G	SNA Acquisition, Restoration, Enhancement & Public Engagement	MN DNR [Booth, Margaret (Peggy)]	\$9,248,141	Statewide	<ul style="list-style-type: none"> - No direct and necessary expenses. - \$5,000,000 - Acquisition only. - \$5,000,000 - Way too much money and not necessary. SNA's should be paid by the DNR or Legacy funds. - \$5,000,000 for acquisition only. - Partial funding. - For \$5,000,000. - Include 179-G if they get property appraised. 	<ul style="list-style-type: none"> - Related open appropriations: ML 2014 - Scientific and Natural Area Acquisition, Restoration, Improvement and Citizen Engagement = \$2,540,000 (expires 06/30/17); ML 2015 - SNA Acquisition, Restoration, Enhancement and Public Engagement = \$4,000,000 (expires 06/30/18) - Budget includes \$321,626 for "Direct and Necessary Expenses", of which \$123,730 is for division and regional program management (to be revised). - Budget includes designated contract: \$535,500 for Conservation Corps MN - \$9.118 million proposal submitted to LSOHC for 2016 OHF for WMA & SNA acquisition. \$504,000 proposal for SNA acquisition. - SNA Restoration \$ proposed to LSOHC - Fee title - Proposer reduced amount requested from \$9,324,826 to \$9,248,141. 	6.56	9,9,9,9,8,8,8,7,7,7,6,5,5,3,0	16	0		
96	174-G	State Parks and State Trails Land Acquisitions	MN DNR [Christie, Jennifer]	\$2,000,000	Statewide	<ul style="list-style-type: none"> - No direct and necessary expenses. - \$1,500,000 - \$1,500,000 - Maybe cut this one down. - Fund at 50%. - Partial funding. - For \$1,500,000. 	<ul style="list-style-type: none"> - Related open appropriations: ML 2015 - State Parks and State Trails Land Acquisitions = \$1,500,000 (expires 06/30/18) - Fee title. 	6.50	9,9,9,9,8,7,7,7,7,7,5,5,3,3,2	16	0		
97	177-G	Preserving the Avon Hills with Reverse-Bidding Easements	Saint Johns University [Kroll, Thomas]	\$1,307,000	Central	<ul style="list-style-type: none"> - Full funding. - But, this should not need to cost over a million, so cut the cost. - Great project! 	<ul style="list-style-type: none"> - Related open appropriations: ML 2013 - Preserving the Avon Hills Landscape - Phase II = \$772,000 (expires 06/30/16) - Joint proposal with MN Land Trust: Saint Johns University request = \$44,000; MLT request = \$1,263,000 - Request is to pay landowner a standard base payment of \$30,000 above their bid - reason for additional base payment is not clear. In previous years the number of bids received and dollars requested exceeded the dollars available (i.e., there was competitive demand). - Conservation Easements 	6.44	9,9,9,9,8,8,8,8,7,6,5,4,4,4,3,2	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	Attachment #2	
												SELECTED	LCCMR Recommendation
98	182-G	Otter Tail River Protection and Recreation Trail Acquisition	City of Fergus Falls [Ron Spidah, Gordon Hydukovich]	\$500,000	Central	<ul style="list-style-type: none"> - Parks and trails fund. - Connects the trail and incorporates some stormwater benefit. - Good opportunity to make this bare land available. Money match is good. - Too high: \$/acre - Need property parcel & separate appraisal. 	<ul style="list-style-type: none"> - Parks and Trails Fund grants? Local park grant. - Fee title. 	5.19	9,9,9,8,8,8,7,7,7,4,3,1,0,0,0	16	0		
99	180-G	Wilder Forest Acquisition for Conservation, Preservation and Education	Minnesota Food Association [Otey Wold, Hilary]	\$6,320,000	Metro	<ul style="list-style-type: none"> - \$0 - \$500,000 - Purchase 60 acres first. - This is to leverage to gain other funds... The process of developing a management plan should be a stipulation of the grant. - \$500,000 - Too expensive; needs local match, if we do anything. - Partial funding. - Purchase 60 acres (\$480,000) for organic farming and preserve - Partial funding. - For \$500,000 to buy 60 acres of farmland. - Need 990. Need property mgr & maintenance plan. 	<ul style="list-style-type: none"> - Proposal activity budgets exceed the total dollars requested. - Request appears to be only for cost of fee title acquisition; however, section C indicates potential other expenses not clear if those are to be paid for from other funds or are intended as part of this request. - Dollars being requested are inconsistent: Cover page and budget indicate \$6,320,000 and activity budget indicates \$10,533,000. - ENRTF-funded conservation easement exists on part of property. - Fee title for a nonprofit 	4.31	8,8,8,7,7,7,6,6,5,3,2,1,1,0,0,0	16	0		
100	183-G	Tower Historic Harbor Nature Trail/Kayak Route	City of Tower [Keith, Linda]	\$679,022	NE	<ul style="list-style-type: none"> - ~ 25% engineering cost. Should be lower. - Can we get a match? A little expensive. - Parks and Trail Fund referral. 	<ul style="list-style-type: none"> - Parks and Trails Fund? Water Access grants? Local park grant? - - Proposer reduced amount requested from \$1,430,000 to \$679,022. 	4.27	9,9,9,8,8,6,5,4,1,1,1,0,0,0	15	1		
101	181-G	Long-Term Drinking Water Supply Protection, Recreation, Habitat Plan	Lincoln Pipestone Rural Water System [Johnson, Mark]	\$2,500,000	SW	<ul style="list-style-type: none"> - This is such a huge issue. If feel like other agencies - PCA, MDH...etc - should add some dollars to this project. Conflicts with LCCMR's mission. - A little expensive. - Wrong funding source. - The polluters should pay or refer to bonding as a statewide priority. - Great presentation. Bonding or Clean Water Fund? 	<ul style="list-style-type: none"> - Clean Water Fund? Wellhead protection. - Fee title. 	4.25	9,9,9,8,8,7,7,6,5,4,3,1,0,0,0,0	16	0		

Line #	LCCMR ID #	Project Title	Organization [Project Manager]	\$ Request	Region of Impact	Member Notes [Compiled from all members. Notes from individual members are designated with bullets]	Staff Notes	Average Score - Members that Scored	All Member Scores - High to Low	# Members that Scored	# Members with Conflicts	Attachment #2	
												SELECTED	LCCMR Recommendation
102	179-G	Minnesota Point Pine Forest SNA Addition Project	Duluth Airport Authority [Werner, Tom]	\$500,000	NE	<ul style="list-style-type: none"> - Airport funding. - Owned by the Land Trust, protected. So how does this fit into the LCCMR project? - Just trim the tops of the trees in the way of airplanes. Quite expensive. - Need other sources. - Need appraisal. Should be part of DNR SNA project. 	<ul style="list-style-type: none"> - Proposal is for one government unit purchasing from another government unit. - Parcel also appears in SNA proposal parcel list and could be funded under that proposal. - Fee title 	3.31	9,8,8,8,5,5,4,4,4,1,0,0,0,0	16	0		
103	H. Other (2 Proposals / \$270,250)												
104	185-H	Contract Agreement Reimbursement	MN DNR [Graeber, Amanda]	\$135,000	Statewide	<ul style="list-style-type: none"> - No direct and necessary expenses. - Full funding. - Full funding. 	<ul style="list-style-type: none"> - Related open appropriations: ML 2014 - Contract Agreement Reimbursement = \$135,000 (expires 06/30/16); ML 2015 - Contract Agreement Reimbursement = \$135,000 (Expires 06/30/17) - For assigned duties as fiscal agent for contracts non-state entity appropriations. - LCCMR staff did not evaluate. 	7.67	9,9,9,9,9,8,8,8,7,7,5,5,4	15	0		
105	186-H	Roseau Lake Watershed: Targeted Water Quality Improvement	MN DNR [Henry, Van Offelen]	\$135,250	NW	<ul style="list-style-type: none"> - This project concerns me...it is clean water funds dollars. - Wrong funding source. - Seems like this should be done with LSOHC \$. 	<ul style="list-style-type: none"> - LCCMR staff did not evaluate. - Received after deadline on 8/1/15 due to provision allowing late submission passed by 2015 Legislature. 	3.50	9,8,8,8,7,7,6,4,3,2,1,1,0,0,0,0	16	0		
106	TOTAL \$ REQUEST REMAINING =			\$69,246,182									