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1 Fine#	ID#	(0 5.0 0. 1.)	# Members Reporting Conflict	Staff Ranking	Project Title	\$ Requested	Summary (30 words)	Organization	Project Manager	Member Notes	Staff Notes
2	006-A	13	OTTAL NES	80	Wild Bee Surveys in Prairie-Grassland Habitats	. · · · · · · · · · · · · · · · · · · ·	Wild bees are important for pollination of many prairie plant species. Proposed surveys will assess the current status and distribution of bees in prairie-grassland habitats of Minnesota.	MN DNR	Nordquist, Gerda		- "Direct and necessary" costs included: \$30,736 - Wildlife research: pollinators
3	005-A	11		80	Contaminants in Minnesotas Loons and Pelicans: Phase 2	\$259,936	This project is designed to assess the potential impact of petroleum, dispersant, and heavy metal contaminants on Minnesotas common loons and white pelicans through radiotelemetry, geolocators, and contaminant analysis.	MN DNR	Henderson, Carrol		- "Direct and necessary" costs included: \$4,936 - Phase 2 of ML 2011 project - Wildlife research: loons and white pelicans - Budget includes \$200,400 for multiple designated contracts including USGS (\$79,400), U of MN (\$31,500), North Dakota State University (\$\$31,000), University of Connecticut (\$17,800), Frontier Global Sciences (\$20,000), and Audubon Minnesota (\$20,700).
4	017-A	10		59	Prairie Butterfly Conservation, Research and Breeding Program	\$638,439	The Zoo and DNR will work to prevent the extirpation and possible extinction of imperiled native Minnesota butterfly species through breeding, genetics and mortality research, inventory, monitoring and public education.	Minnesota Zoological Garder	Runquist, Erik		- Wildlife research: Butterflies - Zoo budget = \$388,439 - includes \$52,000 breeding chamber (equipment) - DNR budget = \$638,439 - includes \$21,000 "direct and necessary"
5	001-A	8		89	Mapping Landscapes for Better Land and Water Management	\$378,718	Critically important land cover information for Minnesota is outdated. We propose to update the states land cover data at moderate spatial resolution statewide and high resolution for selected areas.	U of MN	Knight, Joseph		THE CONTRACTOR OF THE CONTRACT
6	009-A	8		73	State Spring Inventory for Resource Management and	\$875,746	Springs are natural points of groundwater discharge. This project will systematically inventory springs statewide to provide the fundamental data needed to maintain spring flows and protect groundwater-dependent resources.	MN DNR	Falteisek, Jan		- "Direct and necessary" costs included: \$66,801 - In addition to "Direct and necessary" costs included, also includes fleet charges (\$93,000) Proposed phase one of two.
7	002-A	7		85	Assess and Improve Ecological Health of Trust Lands	\$514,395	Project evaluates strategies for improving ecological health of forests on State Trust Lands. Results will quantify long-term ecological impacts of increased forest management on State Trust Lands and other areas.	U of MN	DAmato, Anthony		
8	008-A	7		74	Analyzing and sharing the Minnesota Breeding Bird Atlas	\$386,831	Analysis, preparation and distribution of information collected in the past 5 years on every breeding bird across Minnesota through the publication of 7,000 books and an upgraded website.	Audubon Minnesota	Martell, Mark		- Fourth (Final) phase of ENRTF project: ML 2008, ML 2010, ML 2011 - Budget includes \$5,000 for designated contract with Cornell University.
9	003-A	6		84	Online Access to Minnesota's Biodiversity for Environmental Management	\$342,428	Online access to specimen records of plants and animals will help control invasive species by tracking their spread and enable conservation of native species by predicting responses to environmental change.	U of MN	Barker, Keith		-Pertains to legislatively mandated role of BellMuseum of Natural History since 1872 to house state scientific collections of biological specimens.

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10	010-A	6		73	Drainage Records Modernization and	·	This project will develop a web-based GIS database for Chapter 103E public drainage records modernization, update Drainage Records	BWSR	Kean, Allan		- Proposed first phase with additional estimated remaining costs of \$1,500,000.
					Statewide GIS Database		Modernization Guidelines, and provide grants to drainage authorities requiring minimum 1:1 match.				- Budget includes \$227,000 for designated contract with MnGEO; \$500,000 for cost share grants to local government units.
11	011-A	6		73	Impact of Grazing on Native Plants and Pollinators		We will evaluate effects of grazing versus other management actions on native prairie plant communities, exotic grasses, and pollinator richness to help managers select appropriate tools to achieve their goals.	U.S. Geological Survey	Larson, Diane		- Wildlife research: Pollinators - Budget includes \$116,474 for multiple designated contracts including Polistes foundation (\$76,763) and The Nature Conservancy (\$39,710).
12	019-A	6		55	Sandhill Crane Populations and Management in Minnesota		Obtain information essential to managing Minnesotas 2 populations of sandhill cranes, using GPS-cellular transmitters to delineate population boundaries, habitat use relative to crop depredation, and migration patterns and survival.	U of MN	Andersen, David		- Wildlife research: Cranes
13	012-A	5		72	Emerging Threats to Minnesotas Wildlife		Many emerging threats to wildlife are acquired from the environment, yet little is known about environmental source or spread. Identifying hot spots and risk factors for exposure will improve protection.	U of MN	Nielsen, Kirsten		- Wildlife research: Disease
14	013-A	5		65	Redesigned Updating of State and County Forest Inventories		Pilot forest inventory redesign updating 350,000 acres of DNR and County lands with a multi-pronged approach including: targeted data collection; modeling for imputation and projections; and new tools and technologies.	MN DNR	Nelson, Jon		 Includes \$500,000 in grants to counties with land commissioners. Pilot project, future funding sources unknown. Budget includes \$250,000 for designated contract with MN.IT.
15	020-A	5		54	Expand the Minnesota Wildflowers Online Botanical Reference		It's hard to protect what you can't identify. Field work to expand technical image library and accelerate publication of species accounts to increase website utility/usage by public and land managers.	MN Wildflowers Information	Chayka, Katy		- 501(c)3 acquired in June 2012 Possible executive director salary.
16	004-A	4		81	Conserving Minnesotas Freshwater Mussel Legacy: Quantifying Habitat Interactions		Healthy native mussel populations improve water clarity and provide habitat for other aquatic organisms. We will define environmental conditions necessary to conserve Minnesota's mussels, engaging local organizations and the public.	U of MN	Kozarek, Jessica		- Wildlife research: mussels - Budget includes \$180,514 for designated contract with Macalester College.
17	014-A	4		64	Impacts of Forest Quality on Declining Minnesota Moose		Link regional patterns of moose abundance through time to the distribution of food and cover. Determine if this distribution affects the diet and survival of individual moose.	U of MN	Forester, James		- Widlife research: Moose - See related moose research proposal 016-A Relates to previous ENRTF funded moose research projects: ML 2010, ML 2011, ML 2013 Includes \$58,944 for designated contract with U of MN.
18	015-A	4		64	Improving Stream Trout Habitat by Beaver Management		We will analyze aerial photographs and measure habitat in designated trout streams to improve stream management practices and meet objectives for trout while retaining broader ecological benefits provided by beaver		Moen, Ron	-Beaver studies up the wazoo from 1950-80;	- Wildlife research: Beaver - Budget includes \$127,304 for multiple designated contracts, including Northern Wildlife Consultants (\$23,500) and Bemidji State University (\$103,804).

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19	016-A	4		61	Moose Decline and Air Temperatures in Northeastern Minnesota	\$743,648	Studying physiology and behavior of adult moose and effects of female condition on calf production and survival to determine the impact of air temperature on moose population performance and decline.	MN DNR	Larson, Mike		- "Direct and necessary" costs included: \$49,903 - Wildlife research: Moose - See related moose research proposal 014-A Relates to previous ENRTF funded moose research projects: ML 2010, ML 2011, ML 2013 Budget includes \$136,795 for multiple designated contracts, including University of Minnesota \$116,795) and University of California - Davis (\$20,000).
20	023-A	4		52	Restoring Long-Lost Forest Data and Extending Ecological Monitoring	\$196,000	Long-term forest data; focus on restoration of long-lost statewide forest inventories of 1935, 1953 and 1966 to link with more recent data; to extend long-term ecological monitoring.	U of MN	Ek, Alan		
21	021-A	3		54	Evaluating Clean Water Legacy: Has the Water Improved?	\$388,500	Mining existing and building new foundational data to determine whether Legacy funding is improving water resources and developing restoration BMP effectiveness protocols for WRAPS	U of MN	Wilson, Bruce	- Already being done with urban SW; Ag \$ should pay share	- Clean Water Fund?
22	022-A	3		53	Improving Wildlife Habitat Analysis with Value-Added LiDAR	\$230,428	We will process LiDAR with high resolution aerial photography in northeast Minnesota to provide current landscape-scale habitat measurements. The product will fundamentally improve habitat management for all forest wildlife species	U of MN - NRRI	Moen, Ron		
23	024-A	2		49	Wolf Research Red Lake Reservation (5,500 square miles)	\$404,535	Red Lake is a unique Reservation, having complete jurisdiction over lands within 5,500 square miles of Minnesotas wolf range. This project will facilitate effective management of wolves in northern Minnesota.	Red Lake Department of Natural Resources	Huseby, Jay		- Wildlife research: Wolves - Budget includes \$34,410 for designated contract with USDA.
24	029-A	2		37	Economic Impact of Frac Sand Mining on Minnesota	\$39,967	Investigation of socio-economic impacts from frac sand mining in Minnesota, with particular interest in examining the effects of mining on property values, as well as short-term and long-term employment levels.	U of MN	Wilmot, Neil	- The fed already doing this and the market will figure this out before this gets started.	
25	007-A	1		79	Clean Water Benefits Tool for Smarter Resource Investments	\$347,253	Outcomes of the proposed work are new spatial data on the economic benefits of clean water (surface and groundwater) and a decision tool to inform more strategic investments in conservation.	U of MN	Polasky, Steve		- Budget includes \$68,238 for designated contract with The Nature Conservancy Personnel includes 2.5% annual increase in salary.
26	018-A	1		58	A Smartphone Application to Benefit Anglers and Fish	\$138,229	Develop a free smartphone application that benefits anglers (information access, instant diary, peer interaction) and fish (informed and objective management via long-term, state-wide data on angler movement, effort, and harvest).	U of MN	Venturelli, Paul		- Budget includes \$15,000 for designated contract with Russell Herder software development.

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27	025-A	1		48	New Data Directions	\$253,000	We will develop new levels for natural resource data through very-	U of MN	Lehman,		
					for Understanding		low-altitude self-guided model aircraft equipped for sensing and		Clarence		
					Our Natural Systems		imaging. We have acquired these aircraft and are ready to apply				
20	020.4			42	Danies Sies	¢074 000	them.	Danian Firm	LUIL Chamal		Dudget includes \$005,400 for decimated each act with DND and
28	028-A	1		43	Region Five Development	\$971,080	Five counties (Wadena, Todd, Cass, Beltrami, and Hubbard) request	Region Five Development	Hills, Cheryal		- Budget includes \$895,100 for designated contract with DNR and
					Commissions		aggregate mapping and natural resource data compilation to conserve and protect critical habitat. Project is led by Region Five	Commission			\$3,000 for designated contract with Headwaters Regional Development Commission
					Sustainable		Development Commission.	Commission			- Statutory requirement under MS 84.94 for DNR to conduct this
					Communities		bevelopment commission.				work.
					Initiative						- Budget may include executive director salary.
29	026-A	0		47	Movements and	\$257,473	The proposed project would provide some of the first biological data	MN DNR	D'Angelo, Gino	- Worry that	- "Direct and necessary" costs included: \$21, 173
					Seasonal Habitat		collected about Minnesota elk, including movements and habitat			telemetry info will	- Wildlife research: Elk
					Use of Minnesota		use. This information is essential to their long-term, sustainable			be used to hunt	
					Elk		management.			them.	
30	027-A	0		44	The Human	\$144,099	Healthy wolf populations contribute to healthy ecosystems.	U of MN	Enzler, Sherry		- Includes \$21,600 for designated contract with Jeremy Bruskotter.
					Dimensions of Wolf		Controversy decreases human tolerance threatening wolf viability.				
					Management		Understanding human attitudes and encouraging structured				
							discourse around management strategies can increase tolerance and				
31	R WATER	R RESOURCES (3	36 Propos	als / \$16	5 093 519)		wolf viability.				
	035-B	12	о гтороз	79	Protecting the	\$394.000	Confined aquifers are critical because they provide reliable drinking	U. S. Geological	Stark, James		
"	0000				State's Confined	ψου 1,000	water to many State residents. Some critical information is needed	Survey	Jeanny sames		
					Drinking-Water		to manage these aquifers to ensure clean and sustainable water.	,			
					Aquifers						
33	030-В	10		90	Antibiotics and	\$338,000	The historical relationship between antibiotics and antibiotic	U of MN	Arnold, William		- Budget includes \$17,500 for designated contract with Science
					Antibiotic Resistance		resistant bacteria in Minnesota lakes will be explored to determine if				Museum of Minnesota.
					Genes in Minnesota		improved wastewater treatment is necessary to protect human and				
					Lakes		aquatic health.				
34	034-B	10		81	Watershed Water	\$129,300	This pilot study will calculate complete water budgets for two	U.S. Geological	Lorenz, David		- Pilot study
					Budgets for		countines in Minnesota. Those water budgets can be used for	Survey			
					Managing		proactive groundwater management in areas considered for mining				
					Minnesota's Water		development.				
35	036-B	10		78	Water: Solar Driven	\$291,000	Solar-driven destruction of contaminants via reaction with dissolved	U of MN	Arnold, William		- Budget includes \$40,000 for equipment: Horiba Aqualog benchtop
					Destruction of		organic matter will be quantified to optimize water treatment and				fluorometer.
					Pesticides, Pharmaceuticals,		reuse to achieve improved water quality for the benefit of aquatic				Pertains to findings from previous ENRTF project: ML 2007
					Contaminants		health.				
					Contaminants					L	

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36	038-B	10		75	Rain Water Reuse and Valuation Investigation	\$310,000	Reusing rainwater can significantly reduce demands on Minnesotas groundwater resources while reducing stormwater runoff. Evaporative chillers can efficiently utilize naturally distilled rainwater creating value from a current waste product.	U of MN	Alexander, Scott		- Budget includes \$108,000 for equipment: roto-evaporator and pilot scale cistern.
37	048-B	10		59	Estrogen exposure analyses in Minnesotas Shallow Lake Wildlife	\$136,000	Using biological samples already gathered from shallow lakes across Minnesota, we will determine whether environmental estrogen exposure impacts aquatic wildlife, and make recommendations about land and lake management.	St. Thomas University	Illig, Kurt		- Budget includes \$14,000 for designated contract with Normandale Community College.
38	058-B	9		52	Nutrient Capture Through Water Management and Biomass Harvesting	\$478,500	Evaluate potential capture of nutrients by utilizing cattails grown and harvested within shallow flood reservoirs. Treatment cells will be constructed within existing flood reservoirs. Harvested vegetation utilized for bioenergy.	Red River Basin Commission	Lewis, Jeff	- Combine with 163- F.	- Budget includes \$274,500 for designated contract with WSN Engineering, \$45,000 for designated contract with U of MN - Crookston, and \$15,000 for designated contract with NDSU.
39	040-B	8		69	Measuring hydrologic benefits from Glacial Ridge habitat restoration	\$168,500	This project will enhance work to measure and extend flooding and water-quality benefits of wetland and prairie restorations at Glacial Ridge NWR by leveraging an existing comprehensive hydrologic characterization.	Red Lake Watershed Distric	Cowdery, Tim t		 Majority of funds are for designated contract with USGS. Continuation of ML 2013 ENRTF appropriation.
40	051-B	8		57	Small-scale Groundwater sustainability assessment	\$118,214	We propose the development of a simple tool for assessment of groundwater sustainability. The proposal includes and educational component. The tool is intended for local use in rural Minnesota.	U of MN	Strack, Otto		
41	031-B	7		87	Wastewater Estrogen: Removal Options, Fish Abundance, and Cost	\$516,000	Estrogen in wastewater impacts fish but is unregulated. Nitrogen is increasingly regulated and treatment can also remove estrogen. Our research will improve nitrogen removal while reducing estrogen and safeguarding fish.		Novak, Paige		- Budget includes \$188,400 for designated contract with Saint Cloud State University.
42	032-В	6		83	Does Triclosan Create Super Bugs During Wastewater Treatment	\$382,000	This research project will assess the ability of triclosan, the widely used antibacterial agent, to create bacteria resistant to multiple antibiotics (a.k.a 'super bugs') during the municipal wastewater treatment process.	U of MN	LaPara, Timothy		
43	037-В	6		76	Removing Phosphorous and Endocrine Disruptors from our Waterways	\$493,000	Phosphorous and Endocrine Disruptive Chemicals enter and threaten our waterways in the effluent from 500 Minnesota waste treatment plants. Pressurized heating of these effluents to 200C removes the harmful chemicals.	U of MN	Valentas, Kenneth		- Budget includes \$308,000 of equipment for a hydrothermal carbonization reactor unit Budget includes \$5,000 for designated contract with Bruce Engineering.
44	046-В	6		61	Sedimental Journey: Watershed-scale monitoring of BMP effectiveness	\$972,000	This project uses lake-sediment records to evaluate the effectiveness of best management practices in reducing sediment and nutrient loads at watershed scales over longer time periods than conventional monitoring.	Science Museum of Minnesota - St. Croix Watershed Research Station	. Daniel		- Budget includes \$35,000 equipment: inverted microscope.

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45	047-B	6		60	Demonstrating	\$460,360	Reduction of water quality and quantity impacts from agricultural	Rural Advantage	Meschke, Linda		- Budget includes \$183,875 for designated contract with U of MN;
					Farmer Led		systems using an innovative treatment train approach that treats				\$150,000 for landowner cost share.
					Conservation in Elm		water traveling through the drainage system starting at field to				- Budget may include executive director salary.
					Creek Watershed		shore.				
46	045-B	5		63	Identifying Causes of	\$2,700,869	Quantify the probable causes of high mercury levels in fish from five	MN Pollution	Monson, Bruce		- All funds are for contracts; budget includes \$2,209,819 for
					Exceptionally High		impaired Minnesota rivers, providing the scientific basis to guide	Control Agency			designated contracts including USGS (\$697,000), DNR (\$547,857),
					Mercury in Fish		further mercury reductions.				Dept. of Health (842,112), and Fond du Lac Band \$122,850).
47	033-В	4		83	Protecting Bacteria	\$279,000	Treatment plants use bacteria to degrade pollutants. Man-made	U of MN	Novak, Paige		
					from Contaminants		chemicals including perfluorinated chemicals that enter treatment				
					to Preserve Water		plants harm bacteria. If we can protect bacteria, we can better				
					Quality		protect water quality.				
48	039-В	4		71	Pharmaceuticals and		Determine whether pharmaceuticals (alone/combined with	St. Thomas	Martinovic,		- Budget includes \$119,500 for designated contract with St. Cloud
					Nitrogen Interact to		environmental stressor nitrogen-nitrate) widespread in Minnesotas	University	Dalma		State University.
					Harm MN		waters impact fish health and microbial processes that regulate				
					Fish/Ecosystems?		nutrient cycling and water quality in rivers and lakes.				
49	044-B	4		65	Shallow Lakes:		We propose a 3 part approach to improve management of	MN DNR	Hanson, Mark		- Direct and necessary expenses: \$17,438.
					Assessing Quality		Minnesota's shallow lakes: data gathering, identification of lake				- Budget includes \$241,345 for multiple designated contracts
					and Predicting		quality drivers, and a comprehensive modeling strategy for				including U of MN (\$91,319), St. Croix Watershed Research Station
	054.0				Future Change		predicting future lake conditions.		5 L CL		(\$54,980), University of St. Thomas (\$65,046) , and consultant A.
50	054-B	4		54	Achieving Clarity: Impacts of		Supporting agriculture while minimizing environmental impacts is a 21st century grand challenge. By linking stakeholder needs to a	U of MN	Enzler, Sherry		- Budget includes \$26,606 for designated contract with USGS and \$275,448 for designated contract with Mankato State University.
					Agricultural Tiling		hydrologic model, we can target agricultural tiling and BMPs for				3273,448 for designated contract with Markato State Oniversity.
					and BMPs		water quality.				
51	062-B	4		39	Minnesota River		The Minnesota River Community Clean-Ups for Water Quality is a	Friends of the	Sparlin, Scott		- Budget includes \$14,400 for volunteer t-shirts.
31	002 B	4		33	Community Clean-	•	stormwater pollution abatement project designed to address excess	Minnesota Valley	Spariiri, Scott		budget includes \$14,400 for volunteer t simes.
					Ups for Water		nutrient pollution in the form of phosphorus and nitrogen in the	······································			
					Quality		Minnesota River Watershed.				
52	041-B	3		69	Sources of Microbial	\$690,972	In this project we will develop a DNA-sequence-based method to	U of MN	Sadowsky,		- Expansion of ML 2011 ENRTF appropriation.
					Pollution in the		determine sources of fecal bacteria in the Mississippi River to assess		Michael		- Budget includes \$64,800 for multiple designated contracts
					Upper Mississippi		water quality, mitigate health risks, and develop effective control				(exhibits) including Science Museum of MN (\$54,800) and Bell
					River		strategies.				Museum (\$10,000).
53	050-B	3		57	Restoring	\$490,649	Restoring Little Rock Creek trout stream flow by reducing irrigation	Benton County	Maciej, Gerry		- Budget includes \$32,000 equipment: Variable Rate Technology;
					Groundwater and		groundwater demand. Multiple benefits achieved using proven and	Soil and Water			\$14,444 equipment in other monitoring equipment.
					Trout Habitat		innovative technologies and involving producers in designing	Conservation			
					Through Irrigation		solutions. Outcomes are transferable statewide.	District			
					Efficiencies	1					
54	042-B	2		68	Remote Sensing		Provide new remote sensing tools for comprehensive measurement	U of MN	Finlay, Jacques		- Budget includes \$12,000 equipment for a field spectroradiometer.
					Characterization to		of surface water quality in Minnesota, improving efficiency and				
					Improve Water		effectiveness of monitoring and management under changing				
					Quality Monitoring		climate and land use conditions.				

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55	049-B	2		59	Structured Decision Making for Mille Lacs Fisheries Management	\$299,000	This project will use Structured Decision Making to incorporate both biological and social dimensions into a revised Mille Lacs management process to address issues related primarily to fisheries conversation.	MN DNR	Pereira, Donald		- Direct and necessary costs: \$807 - Budget includes \$280,000 for designated contract with Michigan State University; MSU budget includes "indirect costs" .
56	056-B	2		54	Chemical Removal from Minnesota Lakes by Aquatic Plants	\$346,334	This study investigates aquatic plants ability to remove personal care chemicals and contaminants from Minnesota lakes to improve water quality and habitat for fish and other aquatic species.	USDA Forest Service, Northern Research Station			
57	059-В	2		48	St. Croix Priorities and Conservation Action Plans	\$230,000	Identify and target critical areas within the St. Croix River Basin to achieve maximum results for water quality, habitat and recreational benefits through thoughtful planning and action.	St. Croix River Associaion	Ryun, Deb		- Extension of previous ENRTF project: ML 2011 Budget includes \$158,000 for designated contracts with local counties under Conservation St. Croix.
58	063-В	2		37	Quantifying Acrylamide Detoxification in Frac Sand Washwater	\$174,560	The ability of a laboratory protocol to quantify the site-specific rates of acrylamide detoxification will be demonstrated. Use of the protocol will improve the environmental review of frac sand facilities.	Barr Engineering Company	Gantzer, Charles	- Patentable; Barr should take the risk & regulations should address any discharge threat.	- Personnel budget includes up to 61.5% non-salary expenses.
59	052-B	1		56	Enhanced Street Sweeping to Restore Nutrient-Impaired Lakes	\$474,536	We propose developing tools for Metro cities that could be used to evaluate the potential effectiveness and cost of using enhanced street sweeping to restore their nutrient-impaired lakes.	U of MN	Baker, Lawrence		
60	060-В	1		47	WQExPertApp	\$882,500	The WQExPertApp is an online tool that bridges the gap between Clean Water Funded TMDL/WRPP strategies by delivering prioritized, targeted and measurable on-the-ground BMP and CP projects.	International Water Institute	Fritz, Charles		- Includes Executive Director salary Budget includes \$470,125 for designated contract with Houston Engineering.
61	064-B	1		34	Triclosan Occurrence and Bacterial Resistance in Minnesota Wastewater	\$51,992	Triclosan and triclosan-containing products are being phased out by State agencies. This project aims to produce a snapshot of triclosan in wastewater; and bacterial resistance at this point in time.	Normandale Community College	Bartell, Stephen		- Budget includes \$22,000 lab equipment: Microplate Reader, Automated Plate Washer, Bacterial Incubators.
62	043-B	0		66	Will Superior Sediment Plumes Produce Harmful Algal Blooms?	\$413,443	Floods and changing lake conditions may trigger harmful algal blooms along Superior's shorelines. We will produce a tool to better protect Minnesotans by understanding conditions leading to nearshore algal blooms.	U of MN Duluth - Large Lakes Observatory	Garono, Ralph		- Expansion of ML 2013 appropriation Budget includes \$86,090 for designated contract with USGS.
63	053-В	0		56	Simulating Surface Flows to Inform Water Resources Management	\$336,000	We will use computer simulations to obtain high-fidelity data of surface water flows. The simulation will be a cost-effective tool for gathering information for water resources management and ecosystem preservation.	U of MN - St. Anthony Falls Laboratory	Shen, Lian		

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64	055-В	0		54	Does Water Contaminated with Oil Affect Your Hormones?	\$233,089	We will test Minnesota waters contaminted with oil for potential estrogenic and androgenic activity to evaulate the risk of these chemicals in drinking water to aid in water remediation strategies	St. Thomas University	McGuire, Jennifer	- They have access to a great research plot.	- Budget includes \$54,000 for designated contract with USGS.
65	057-B	0		52	Protecting Water Quality in Northeast Minnesota Mining Areas	\$406,000	Prevent resource degradation by defining the threshold at which mining-related watershed changes will alter fisheries and recreational economies. Results will inform effective approaches to mining and resource protection.	U of MN	Lewandowski, Ann		- Budget includes \$75,000 for designated contract with USGS Budget includes \$3,500 for equipment: backpack shocker.
66	061-B	0		43	Predicting Smallmouth Bass Exposure to Endocrine Active Compounds	\$241,073	We will develop a model that will predict the exposure of native fish to endocrine active compounds and identify lakes and rivers where these compounds are likely to be found.	U of MN - NRRI	Schoff, Patrick		
	065-B	0		34	Environmentally- Friendly Frac Sand Water Cleanup	\$812,428	We will develop environmentally-friendly procedures for the fracsand mining industry in Minnesota. Our technology detects and destroys the potentially hazardous chemicals used. Water is cleaned and less land used.	U of MN	Wackett, Lawrence		- Outcomes unclear Budget includes \$60,000 for designated contract with Sunde Engineering Budget includes \$75,000 for equipment: bioreactor column
68	C. ENVIRO 066-C	DNMENTAL EDI 12	JCATION ((31 Prop 82	osals / \$11,906,429) Minnesota Conservation Apprenticeship Academy	\$392,000	This program builds upon previous success, placing 30 students as interns in SWCD offices state-wide each year for two years, facilitating knowledge sharing between experienced professionals and students.	BWSR	Gieseke, Jenny		 Continuation of previous ENRTF appropriations: ML 2010, ML 2011, ML 2013. Budget includes \$386,000 designated contract with Conservation Corps MN.
70	072-C	10		70	Minnesota Pollinator Partnership	\$104,600	Forty community pollinator projects will be completed on at least 40- acres involving and educating 800 youth and 200 adults on the value of pollinating species and their habitat.	Pheasants Foreve	r Holland, Matt		- Budget includes \$80,000 for grants to local PF chapters.
71	073-C	10		70	Bee Discovery Center at the Minnesota Landscape Arboretum	\$615,279	The Minnesota Landscape Arboretum's new Bee Discovery Center will offer hands-on learning experiences for everyday people and communities to learn how they can protect bees and bee habitat.	U of MN, Landscape Arboretum	Moe, Peter		
72	069-C	9		72	Minnesota Stories in a Changing Climate	\$413,860	Minnesota Stories in a Changing Climate utilizes media tools and local experts to share stories, provide personal contact, and highlight resources to increase climate literacy and encourage positive behavior change.	Will Steger Foundation	Poppleton, Kristen		- Budget includes designated contract of \$98,500 with TPT.
73	074-C	9		69	Urban Environmental Education Engaging Students in Local Resources	\$1,093,000	A collaborative metro-wide system for environmental educational using existing, but underutilized, environmental resources serving 15,600 underserved middle and high school students in high quality, place-based environmental education programs.	Wilderness Inquir	y Lais, Gregory		- Budget includes \$90,000 for teacher stipends Expansion of previous ENRTF appropriations: ML 2010, ML 2013.

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Line #	ID#	Compiled Member Ranking (Out of 17)	# Members Reporting Conflict	Staff Ranking	Project Title	\$ Requested	Summary (30 words)	Organization	Project Manager	Member Notes	Staff Notes
74	083-C	9		49	Reducing Lake Quality Impairments through Citizen Action	\$59,375	Train lake associations and other key stakeholder groups to develop lake management plans and to implement science-based, citizen-led water quality improvement projects on eight impaired lakes in west central Minnesota.	Freshwater Society	Gehrig, Alex		- Budget includes \$17,500 in various designated contracts including Initiative Foundation and RMB Laboratories.
75	080-C	7		53	TV Documentary: The Great Mille Lacs Walleye Mystery	\$102,372	Overfishing? Invasive species? Rising Temperatures? Our hour-long statewide PBS documentary explains to average Minnesotans the science and history behind why the Mille Lacs walleye fishery is struggling.	Twin Cities Public Television	Henehan, Brendan	- Should raise \$ ASAP from resorters & angling interests; LCCMR money is too late.	
76	068-C	6		75	GreenStep Schools Program: School- based Environmental Education and Stewardship	\$900,000	Develop and pilot a best-practices program for students and community to learn how to save energy and water, reduce waste, and provide natural habitat at their school building and grounds.	MN Pollution Control Agency	Sierks, William		 Budget includes \$215,000 multiple designated contracts including U of MN \$140,000), Green Building Council (\$60,000), CERTS (\$15,000). Budget includes \$620,000 grants to pilot schools. Expansion of previous ENRTF appropriation: ML 2008
77	071-C	6		71	Youth-led Sustainability Initiatives in 40 Greater MN Communities	\$397,000	40 Youth Energy Summit (YES!) teams will complete over 100 youth-led sustainability action projects in 40 communites in SW SE,Central and NE Minnesota, providing valuable service and gaining valuable experience.	Prairie Woods Environmental Learning Center	Pederson, Dave		 Expansion of previous ENRTF appropriation: ML 2011 Budget includes \$46,000 designated contract with Laurentian ELC. Budget includes \$40,000 for grants.
78	076-C	6		65	Raptor Lab: Online and Outdoors!	\$186,676	The Raptor Lab will create an environmental education curriculum for middle schools that integrates authentic outdoor experiences with technology and scientific investigation to empower students to explore their local environment.	U of MN	Ponder, Julia		- Includes \$13,500 for teacher stipends.
79	086-C	6	1	45	The Wolf At Our Door	\$123,672	This new initiative will bring an outreach specialist to metro area K- 12 classrooms and nature centers to help children understand issues around wolf management in this new era of delisting.	International Wol Center	f Berus, Darcy	- Parks and trails	
80	067-C	5		75	River Lab: Engaging Minnesotans in Water Quality Issues	\$730,747	An exhibit with educational scientific laboratory experiences that measurably increases the awareness of Minnesotans to common river water pollutants and the implications of these contaminants to their daily lives.	Science Museum of Minnesota	Hamilton, Patrick		- Budget includes significant equipment funds for the exhibit.
	070-C	5		72	Reducing Salt Pollution Through Winter Maintenance Training	\$415,900	Training thousands of winter maintenance personnel will reduce road salt (chloride) use by 30%, protecting Minnesota's infrastructure and surface and groundwater. Research and collaborative, longterm planning will recommend future reductions.	Mississippi Watershed Management Organization	Winkelman, Jenny		- Budget includes \$15,000 for designated contract with U of MN.
82	077-C	5		64	Building Bridges to a Diverse Natural Resources Community	\$1,100,000	Increase participation of under-represented communities in outdoor recreation and in the natural resource professions by means of targeted urban outreach and stronger linkages between DNR programs and academic offerings.	MN DNR	Hanson, Michele		- Budget includes \$84,000 for designated contract with U of MN and \$353,908 with Conservation Corps MN Personnel budget numbers for "UMN Faculty Coordinator" at \$64,000 and "UMN Teaching Assistant" at \$20,000 are reversed.

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	075-C	4	**	66	Engaging Youth With Nature Through Mobile Technology	\$362,000	Recruit and train 1,200 adults statewide to engage 30,000 youth in 4-H/ other non-formal learning programs, using mobile technology to explore nature, enhance youth's skills, and build a conservation	U of MN	Stevenson, Anne		- Expansion of previous ENRTF appropriation for DNR pilot project: ML 2010.
					Widdlie Technology		ethic.				
84	082-C	3		51	Urban Youth-Led Ecological Regeneration Partnership	\$208,200	This initiative organizes and engages 8000 participants from diverse communities in improving the community environmental health while preparing their youth for future career possibilities in environmental services and sciences.	Ce Tempoxcalli	Leguizamon Grant, Zea		- Budget includes \$30,000 of Executive Director salaries.
85	084-C	3		48	Minnesota River Basin Water Quality Success Stories	\$135,871	Lessons learned from eight successful subwatershed-scale conservation efforts will be summarized and disseminated to help inform and influence future watershed protection efforts. Products include videos, website, booklet and outreach.	Minnesota State University, Mankato - Water Resources Center	Kimberly		- Budget includes \$49,000 in various designated contracts including Queenan Production (\$33,000) and Riverartisan (\$16,000).
86	094-C	3		33	Wolf-Livestock Conflict Reduction Using Cost-Effective Non-Lethal Prevention	\$417,250	Educate, empower, and assist livestock producers that have experienced chronic livestock losses from wolves with non-lethal prevention techniques to minimize conflicts and foster coexistence between humans and wolves.	Howling For Wolves	Sullivan, Tom		- Budget includes \$126,500 for 6 ATV's, 1 truck, and electrified fencing.
87	079-C	2		56	Integrating Environmental Education in Grade 3- 12 Economics Curriculum	\$96,816	The project will enhance the abilities of up to 10,000 students in grades 3-12 to analyze trade-offs between environmental protection and economic development and make choices to achieve sustainable balances.	Minnesota Counc on Economic Education	il Liu, Donald		- Budget includes \$30,526 for teacher incentives, travel reimbursement, and food.
88	088-C	2		43	Red River "Living with a River" Interpretive Trail	\$190,185	Interpretive trail along Red River will provide environmental education to City of Moorhead and Red River Valley through interpretive trail signs, audio tour, and riparian education outreach materials.	River Keepers	Backman, Robert		- Budget includes Executvie Director salary.
89	090-C	2		36	CREED - Energy Education Project	\$148,500	To update CREED's curriculum to serve more teachers in a shorter period of time thru development of an online, interactive, teacher lead, with online meetings based curriculum package.	CREED (Center for Renewable Energy Education and Demonstration			- Budget includes \$17,500 in Executive Director salary Project involves curriculum development Budget descriptions are confusing and don't add up correctly.
90	092-C	2		35	MN Agricultural Interpretive Center Energy Education Project	\$160,000	To develop an agricultural based energy education curriculum. Farmamerica is Minnesotas only agricultural environment learning center. The materials will be used at Farmamerica and be available online.	MN Ag Interpretive Center - Farmamerica	Gibson, James		- Budget includes Executive Director salary. - Budget detail is confusing. - Involves curriculum development.
91	078-C	1		62	Making a Splash in Water Resources Education	\$160,000	Improve our students' appreciation for and understanding of Minnesota's water resources, and inspire their interest in pursuing science toward a potential career in natural resources.	U of MN	Corney, Jeffrey		- Budget includes \$15,000 for teacher scholarships.

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92	087-C	1		45	Testing Triggers for Adopting Sustainable Water Practices	\$317,000	Individuals adopting stormwater retention, groundwater conservation, and wastewater chloride reduction practices provide a public benefit by sustaining water resources. This project identifies the most influential factors for overcoming personal inaction.	City of Rochester	Moeller, Megan		- Budget includes \$25,000 equipment: automated Chloride Samplers; \$50,000 for residential and business water conservation supplies.
	093-C	1		35	Community Green Space Mapping Project		Youth participants will explore local nature areas and create interactive, on-line maps of their community green spaces. Maps will be linked to local school, city and community organization websites.	Project Get Outdoors, Inc.	Hanson, Kipp		
94	081-C	0		51	Eco Educations Environmental Service-Learning Program	\$90,000	Eco Education will train, support and mentor teachers to implement an environmental service-learning curriculum that will allow students to complete action projects and address environmental issues to improve their communities.	Eco Education	Griffin, Elise		
95	085-C	0		46	Waters to the Sea: Rivers of Minnesota	\$451,494	Waters to the Sea: Rivers of Minnesota is an environmental education and community outreach project that will help Minnesotans understand water issues and act to improve and maintain water quality.	Hamline University - Cente for Global Environmental Education	Fredin, Tracy r		- Budget appears to include \$90,000 for Hamline University licenses and \$1,500 for stipends to advisory task force.
96	089-C	0		40	Demonstration Water Quality Protection Practices on Zumbro River	\$413,934	To achieve increased water quality through the application of agricultural and urban BMPs in the Zumbro Watershed by increasing public understanding, connection, and engagement, to the watershed water quality issues.	Zumbro Watershed Partnership	Svien, Lawrence		- Budget includes \$117,090 for designated contract with U of MN and \$99,984 for designated contract with Conservation Corps MN.
97	091-C	0		35	Citizen Input on Silica Sand Mining	\$99,672	The Jefferson Center aims to motivate conservation efforts in southeastern Minnesota by developing citizen-led information and education events related to silica sand mining development.	The Jefferson Center	Bozentko, Kyle	- Didn't propose bringing in any expertise, only opinions; no science to this.	
98	095-C	0		32	Trailblazers: District 196 Students Ensure Sustainable School Environments	\$1,876,026	Over 4,000 students and staff each year will be empowered to work together on creative solutions for environmental problems and become practitioners of sustainable development on their local school campuses.	District 196 - Rosemount-Apple Valley-Eagan	Kindem, Cathy		
	096-C	0		30	Land Stewardship in Secondary Education		Environmental Education for 7-12 graders using an outdoor classroom setting to establish land stewardship in young adult populations and increase interest in Environmental Studies and Conservation beyond the educational setting.	River Bend Nature Center	Boysen, Suzy		
	D. AQUA 098-D	TIC AND TERRE	STRIAL IN	VASIVE S 82	Biosurveillance and Biocontrol of EAB - Phase 2		We will continue to monitor select ash and EAB populations to inform and expand biological control implementation and test the compatibility of biological control with insecticide treatments for EAB management.	MN Department of Agriculture	Chandler, Monika		- Continuation of ENRTF appropriation: ML 2011, ML 2013 Joint proposal between MDA (\$309,900) and U of M (\$318,200) Terrestrial Invasive Species

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	097-D	12		84	Blocking Asian Carp by Optimizing Lock and Dams	\$463,449	Working with the Army Corps of Engineers to develop simple ways to modify two lock and dams to stop Asian carp from invading the Minnesota, St. Croix, and Mississippi Rivers	U of MN	Sorensen, Peter		- Budget includes designated contracts of \$150,000 with US Army Corps of Engineers and \$97,205 with Smith-Root Relates to Aquatic Invasive Species Research Center funded by ENRTF in ML 2012 and ML 2013. Current funding does not include barrier work Aquatic Invasive Species
103	099-D	8		79	Mountain Pine Beetle: Invasive Threat to Minnesotas Pines	\$382,100	Mountain pine beetle kills pines. Given a recent find and two potential arrival pathways, we survey and characterize risk to Minnesota's pine forests to inform early detection and rapid response.	U of MN	Aukema, Brian		- Terrestrial Invasive Species
104	101-D	8		77	Bioacoustics to Detect, Deter and Eliminate Flying Carp	\$262,907	Develop bioacoustic (sound) technology for silver carp 1) detection and early warning systems; 2) capture and elimination methods; 3) deterrent systems	U of MN Duluth	Mensinger, Allen		Aquatic Invasive Species
105	100-D	7		77	Brown Marmorated Stink Bug Monitoring and Biocontrol Evaluation	\$266,024	We will monitor for brown marmorated stink bug to identify problem areas and target biocontrol efforts. We will evaluate the suitability of potential biological control agents for use in Minnesota.	MN Department of Agriculture	Abrahamson, Mark		- Proposal had watermark stating "Draft" - this is not a draft Joint proposal between MDA and U of M Terrestrial Invasive Species
106	107-D	7		58	Invasive Species Control in Grassland Habitats	\$892,000	Invasive species in critical habitats identified in the Minnesota Prairie Plan will be managed on 80,000 acres through inventory, direct control (herbicide and fire treatments) and habitat reconstruction.	The Nature Conservancy	Winter, Brian		- Terrestrial Invasive Species
107	102-D	6		70	Bacterial Biodiversity for Sustainable St. Louis River Estuary	\$359,849	We will identify the common and rare bacteria that currently inhabit the St. Louis River Estuary to evaluate the potential ecological and economic damage caused by new invasive bacterial species.	U of MN - Duluth	Hicks, Randall		- Pertains to previous ENRTF appropriation: ML 2011 Aquatic Invasive Species
108	106-D	6		61	Accelerated Effort to Understand and Control Zebra Mussels		This project will expand partnerships between state, tribal, and local units of government to address the spread of AIS and increase our understanding of how zebra mussels impact our lakes.	MN DNR	Pierce, Ann		- Activity 3 potential stand-alone project "Direct and necessary" costs included: \$180,800 - In addition to "Direct and necessary" costs included, also includes fleet charges Budget includes \$850,000 in contracts for AIS inspections and \$3,006,000 for grants to tribal and local governments Aquatic Invasive Species
109	104-D	5		67	Minnesota Deers Risk of Invading Epizootic Hemorrhagic Disease	\$135,847	Minnesota is on the edge of invasion by epizootic hemorrhagic disease; a significant threat to white-tailed deer. Research is critical to assess risk, enabling agency partners to mitigate disease impacts.	U of MN - College of Veterinary Medicine	Robinson, Stacie		- Terrestrial Invasive Species

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110	103-D	4		68	River Management Strategy Before		Project will develop a management framework to address invasion of Asian carp in the Upper Mississippi River. Predictive models will	Winona State	Delong, Michael		- Aquatic Invasive Species
					Asian Carp Invasion		identify vulnerable aquatic habitats, reducing costs for river management and mitigation.	University			
111	105-D	4		61	Minnesotas Forest Invasives: Threats, Assessment and Recommendations		Assessment of threats from terrestrial invasive species to Minnesotas forests and urban trees and development of recommendations regarding optimal policy instruments, needed investments, and key information needs, better positioning Minnesota.	Minnesota Forest Resources Council	Hibbard, Calder		- Terrestrial Invasive Species
112	108-D	4		52	Southwest Minnesota Asian Carp Watershed Deterrents		Prohibit Asian carp migration into sub-watersheds and core recreational lakes near Mankato and Willmar, Minnesota by installing physical deterrents and electric barriers at strategic sites along streams and ditches.	MN DNR	Lauer, Jack		- Direct and necessary costs: \$268,800 - Budget includes \$2,700,000 for contract for electric barrier Aquatic Invasive Species
113	109-D	3		50	Regional Aquatic Invasive Species Project		This project will expand AIS activities from a county based processed to a Watershed scale through a partnership with LGUs and others within a defined region in NW Minnesota	Red River Basin Commission	Courneya, Joe		- Aquatic Invasive Species
114	110-D	3		41	Anoka Rum River Dam Asian Carp Barrier Improvements		This project will study potential improvements to the Rum River Dam in Anoka to improve its effectiveness as a barrier to Asian carp to protect the Rum River watershed.	City of Anoka	Zastrow, Russ		- Budget includes designated contract of \$140,000 with Stanley Consultants Aquatic Invasive Species
115	E. AIR QU	ALITY, CLIMAT	E CHANG	E, AND R	ENEWABLE ENERGY (3	5 Proposals / \$16	,771,904)				
116	116-E	13		75	Innovative Groundwater- Enhanced Geothermal Heat Pump Study		We propose to analyze and validate a novel geothermal heat pump method and technology that is expected to substantially reduce heat pump cost while improving performance and predictability.	U of MN	Saar, Martin		- Budget includes \$87,784 equipment to build prototype system Renewable energy
117	137-E	11	1	47	Solar PV at Minnesotas Residential Environmental Learning Centers		5 kw institutional solar arrays will be installed at each of six residential environmental learning centers. Online monitoring, site demonstration and recently developed solar curriculum will reach thousands annually.	Eagle Bluff, Wolf Ridge,Deep Portage , Long Lake , Audubon Center of the Northwoods, Laurentian ELC	Yerger, Dale		- Renewable energy - Entire budget is for installation of solar arrays.
118	111-E	10		88	Assessing Species Vulnerability to Climate Change Using Phenology		Historical and new observations of timing of biological events such as flowering will assess change in the ecology of species, identify vulnerable species and inform management strategies for climate change.	U of MN	Montgomery, Rebecca		
119	112-E	10		86	Solar Cell Materials from Sulfur and Common Metals		We will develop solar cell materials using nontoxic and common metals combined with sulfur, a mining waste product. Success will help progress towards the 2002 MN solar energy policy standard.	U of MN	Penn, Lee		- Budget includes \$25,000 equipment for microwave equipment Renewable energy

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120	121-E	8		68	Demonstrating Innovative Technologies to Fully Utilize Wastewater Resources		To demonstrate innovative technologies to utilize and treat wastewater streams; convert scum, sludge, and centrate to biofuels; improving water quality, reducing GHG emission, producing renewable energy, lowering wastewater treatment costs.	U of MN	Ruan, Roger		- Budget includes \$750,000 equipment to build pilot systems Renewable energy
121	140-E	8		40	Itasca Boiler/Woody Biomass Utilization Project		Itasca Community College is developing a national demonstration site for the effective use of woody biomass for heating, and creating training opportunities for the woody biomass energy conversion industry.	Itasca Community College	Johnson, Bart		 Renewable enery Budget includes \$913,400 for biomass boiler purchase and installation.
122	122-E	7		67	Transitioning Minnesota Farms to Local Energy		Agricultures dependence on fossil energy carries economic and ecological risks. Clean energy strategies will be developed for Minnesota farms to significantly reduce fossil energy use while increasing local energy production.	U of MN	Reese, Michael		- Budget includes designated contract 5 contracts for \$199,200; \$314,000 equipment for wind and solar equipment. - Renewable energy
123	126-E	7		60	Life Cycle Energy of Renewably Produced Nitrogen Fertilizers	\$512,732	Fossil energy savings and greenhouse gas reductions of using local renewable energy technologies for fertilizer production are calculated using Life cycle assessment. Technological and economic feasibility are also examined.	U of MN	Tallaksen, Joel		- Renewable energy - Budget includes designated contracts Lund University Sweden (\$80,000), Swedish Ag University (\$50,000), operating stipends (\$30,000).
124	133-E	6		50	Next Generation Septic TankSystems		This project aims to developing next generation septic tank systems focusing on nutrient recuperation, bioenergy generation and environmental protection by the implementation of a bioelectrochemical system.	U of MN	Ни, Во		- Renewable energy - Budget includes \$15,000 equipment for septic tank prototype.
125	125-E	5		62	Clean Water/Renewable Energy from Beet Waste/Manure		Sugar beet processing wastewater and pig manure, the two major pollutants to Minnesota water, can be used together to produce bioenergy (\$9.72 million) and a crop fertilizer (\$5 million) annually.	U of MN	Zhu, Jun		- Renewable energy - Budget includes \$60,000 equipment to construct reactors
126	129-E	5		57	Reducing Dioxin Emissions Grant Program		Reduce dioxin emissions and their negative health consequences from household garbage burning by improving access to rural garbage collection and recycling sites through grants to townships and counties in Minnesota.	MN Pollution Control Agency	Fisher, Hank		- Budget includes \$600,000 grants to counties and townships.
127	134-E	5		49	District Heating With Renewable Biomass at Camp Ripley		Decrease dependence on natural gas by replacing 14,100 mcf and a reduction in CO2 emissions by 740 metric tonnes annually through district heating with renewable biomass at Camp Ripley.	Minnesota Department of Military Affairs/Minnesota National Guard	Anderson, Mark		- Entire budget for installation of biomass boiler Renewable energy
128	139-E	5		46	Eliminating Sulfur from On-Farm Anaerobic Digester Emissions		On-farm anaerobic digestion diverts feedlot water from groundwater and mitigates greenhouse gas emissions. Reducing sulfur emissions will further improve environmental and cash-flow benefits allowing for more acceptance of the technology.	MN Department of Agriculture	Hennessy, Kevin		- Renewable enery - Budget is \$300,000 contract with a farm to install gas clean-up hardware Proposal activity budgets don't line up with budget.

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129	117-E	4		74	Wastewater Facility Energy Conservation and Air Pollution Reduction	\$208,616	Provide technical assistance to fifteen wastewater treatment facilities across Minnesota to identify and implement energy conservation projects that improve operational efficiency and reduce air pollution from associated energy production.	U of MN - MnTAP	DeWahl, Karl		- Renewable energy
130	124-E	4		64	Greenhouse Gas Reduction through Forest Based Bio- Chemicals	\$199,280	We will reduce greenhouse gas emissions and enhance carbon sequestration by replacing petroleum based fuels and chemicals with forest based materials, providing additional revenue streams for paper and forest industry.	U of MN	Tschirner, Ulrike		- Renewable energy
131	131-E	4		53	Minnesota EV Trail: Solar Chargers for Electric Vehicles	\$261,000	Install a chain of solar powered electric vehicle charging stations across Minnesota. This Minnesota EV Trail will ultimately reach from Iowa to Canada, greatly accelerating adoption of EVs in Minnesota.	MN DNR	Bergh, Rob		- Renewable energy - Budget includes \$240,000 for for solar equipment and electric vehicle chargers; \$11,000 for DNR professional services.
132	145-E	4		30	City of Ely Joint Biomass District Heating Project	\$150,000	City of Ely, Ely-Bloomenson hospital, ISD696 with assistance of AETF, USFS, WERC have a viable biomass district heating project. The \$3,780,000 project needs final legal, governance, partnership structure to proceed.	City of Ely	Langowski, Harold	- These are the transaction costs for alt energy; they should have proposed developing model agreements.	- Renewable enery - Entire budget is for legal, finance, and engineering contracts for planned renewable energy project. Designated contracts with Wilson Engineering, JPJ Engineering, and Overom & Maki, and Klune Law Biomass feasibility analysis completed with ML 2011 ENRTF appropriation Rudget includes \$5,000 for contingency
133	138-E	3		46	Wind Energy from Gravity Waves and Nocturnal Jetstreams	\$191,779	This project examines gravity waves and nocturnal jetstreams for wind turbine energy generation. Results will help Minnesota meet the 25% renewable energy requirement by 2025 and will improve air quality.	U of MN	Griffis, Timothy		- Budget includes \$20,000 equipment for solar anemometer.
134	113-E	2		77	Mitigating Drought and Windstorm Impacts on Minnesota's Forests	\$270,000	Project assesses strategies for mitigating impacts of drought and windstorms on Minnesota's forests. Results will quantify effectiveness of forest management at sustaining forest health and growth during extreme weather events.	U of MN	D'Amato, Anthony		
135	114-E	2		77	Building Environmental and Community Resilience to Extreme Weather	\$846,000	Reducing environmental damage from extreme weather through practical investments, community engagement, outreach and grants to implement green infrastructure, conservation, urban forestry, building, and other adaptive practices while building community resilience.	MN Pollution Control Agency	Moss, Paul		- Budget includes \$600,000 for grants to local government units Budget includes designated contract of \$50,000 for Science Museum of MN.
136	115-E	2		75	Forecasting Minnesotas Future Forests	\$642,764	The project will increase understanding of climate change impacts on Minnesota forests, use that information to forecast future forests, and provide managers with strategies to increase forest growth and health.	U of MN	Reich, Peter		
137	118-E	2		74	Protecting North Shore Trout Steams for the Future	\$361,758	Identify viable North Shore trout streams threatened by climate change using site-specific temperature and fish data; develop strategies to manage and protect trout streams.	U of MN - NRRI	Johnson, Lucinda		

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Line	ID#	(Out of 17)	# N	Staff	Project Title	Requested	Summary (30 words)	Organization	Manager	Member Notes	Staff Notes
138	119-E	2		74	Building Habitat and	\$510,000	This project applies state-of-the-art "resilience clinics" and "climate-	MN DNR	Manolis, Jim		- Budget includes \$306,000 for DNR professional services; budget
					Watershed		smart" management frameworks to guide resource professionals in				detail is lacking.
					Resilience to Climate		their work to steward risk-prone habitats and watersheds through a				
					Change		range of future climate scenarios.				
139	127-E	2		58	Biomass Gasification	\$175,000	This project will provide a platform for distributed renewable	U of MN	Zarling, Darrick		- Renewable energy
					to Produce		electrical generation, allow us to rethink energy distribution, use				- Budget includes designated contract with All Power Labs for
					Electricity for CO2		renewable resources to manage carbon, create local bioenergy				\$10,000; \$20,780 equipment for gasifier/generator platform.
4.40	420 5				Reduction	4207.000	ecosystems and sustainable communities.		C: 1		
140	128-E	2		57	Creating a Statewide	\$287,000	Create a statewide solar resource inventory map and website,	Minnesota	Cina, Laura		- Renewable energy
					Solar Resource Inventory and Map		enabling Minnesotans and local government planners to understand and manage the opportunities and risks associated with developing	Society			
					ilivelitory and iviap		solar energy resources.	Society			
1/11	130-E	2		54	Developing	\$105.050	The project will identify opportunities for advanced energy	U of MN, Dept. of	Hammingssan		- Renewable energy
141	130-L	2		34	Minnesotas Clean	\$193,930	technologies and biochemicals from agricultural and forest based	Bioproducts and			- Netiewable effergy
					Energy Carbon		resources and deliver a consensus framework for establishing a	Biosystems	Menara		
					Neutral BioEconomy		green energy, carbon neutral BioEconomy	Engineering			
142	120-E	1		72	Silica/Frac Sand	\$607.924	This study will determine the environmental concentrations and	U of MN - NRRI	Hudak, George		- Budget includes designated consultant contract for \$12,500;
					Mining Air/Water	, , -	compositions of airborne particulate matter generated by silica sand		, , , , , , ,		\$20,000 for software upgrade to electron microscope; \$4,000 for
					Quality		mining activities in Southeast Minnesota and evaluate related air				MOUDI Pump.
					Environmental		and water quality impacts.				·
					Impacts						
143	123-E	1		64	Determining Climate	\$442,779	Elevated concentrations of mercury have been observed in children	U of MN	Nater, Edward		
					Change Effects on		living along the North Shore. Potential increases in mercury in				
					Mercury in		surface waters resulting from climate change may exacerbate that				
					Peatlands		situation.				
144	136-E	1		48	Minnesotas	\$362,680	This project quantifies Minnesota's methane emissions. Results will	U of MN	Millet, Dylan		- Budget includes \$34,770 equipment for methane analyzer.
					Methane Emissions:		indicate where reductions can be effective, evaluate the importance				
					Potential Energy and		of natural and human-driven sources, and identify energy savings				
					Climate Benefits		and climate mitigation opportunities.				
145	142-E	1		37	Reduction of Carbon	\$500,000	The goal of this proposed project is to quantify the reduction in	Sustainable	McAlpine, Jake		- Budget includes designated contract with U of MN (\$71,000);
					Emissions in		green house gas emissions from 40 homes by implementing	Resources Center,			\$164,000 monitoring equipment for 40 homes; \$125,000 grants to
					Residential Buildings		comprehensive energy saving retrofits in each home.	Inc.			40 private home owners.
146	132-E	0		51	Human Health, High	\$225,000	Improve health of low-income and communities of color as		Gupta, Shalini		- Budget includes designated contract with U of MN (\$65,000)
					Risk Populations and		Minnesota's climate changes. Conduct GIS mapping outlining high-	Energy and			
					Climate Change		risk human populations, develop recommendations for adaptation	Democracy			
147	125.5			48	Climata Baadinass in	¢270.40F	planning and conduct culturally appropriate community outreach.	II of MAN	Dayonnart Mar-		
14/	135-E	0		48	Climate Readiness in Tourism-Dependent	\$279,185	Recreation and tourism systems are sensitive to climate change. We propose research and outreach to assess and build climate readiness	U of MN	Davenport, Mae		
					North Shore		in Lake Superior north shore communities dependent on nature-				
					Communities		based tourism.				
L					Johnnandes		Dane 16 of 22	1	I		1.27 DN4 0/46/2012

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148	141-E	0		38	Quality of Life under Climate Change in Minnesota	\$493,784	Develop Quality of Life indices sensitive to climate change in communities founded on timber, tourism, mining, and agriculture; work with city and natural resource managers to validate this tool statewide.	U of MN - NRRI	Host, George		
149	143-E	0		37	Developing Building Deconstruction into a Sustainable Enterprise	\$150,000	The project will show deconstruction is a viable alternative to demolition; reducing construction waste going to landfills, conserving natural resources by promoting reuse/recycling, and increasing employment for chronically unemployed adults.	Better Futures Minnesota	Thomas, Steve	- 1st need law enforcement to stop the thefts.	- Equipment budget lack detail.
150	144-E	0		33	Characterizing Urban Metabolism to Help Manage Carbon Emissions	\$189,523	This proposal will help the MPCA formulate CO2 emissions reduction and climate change adaptation by quantifying the fluxes of CO2, energy, and water from urban surfaces using innovative measurements	U of MN	Matsumoto, Katsumi		- Budget includes \$71,200 equipment formonitoring instrumentation equipment; \$9,000 for computer and software.
151	F. METHO	DDS TO PROECT	, RESTORI	E, AND E	NHANCE LAND, WATE	R, AND HABITAT	(31 Proposals / \$12,406,378)				
-	151-F	10		72	Protecting Bees by Understanding Systemic Insecticides		Understand how native bee and honey bee colonies are impacted by systemic, neonicotinyl insecticides in pollen and nectar of plants growing in fields and landscapes.	U of MN	Krischik, Vera		
153	157-F	9		60	Restoring our Lands and Waters	\$414,000	Great River Greening will restore/enhance 0.27 miles (0.18 Trust Fund, 0.09 match) of shoreline and 340 acres (218 Trust Fund, 122 match) of forests, wetlands, woodlands, savanna and prairie.	Great River Greening	Buck, Wiley		- Received ML 2013 appropriation.
154	161-F	9		58	Maintaining Expiring CRP Land Benefits Using Integrative Cropping	\$467,000	Develop and evaluate alley cropping agroforestry systems as continuous living covers to maintain the environmental benefits gained of expiring CRP lands while providing economic opportunities for farmers and rural communities.	U of MN	Zamora, Diomy		- Budget includes designated contract with Rural Advantage (\$9,000).
155	163-F	9		52	Cattail Management for Wetland Widlife and Bioenergy Potential	\$74,600	This project will evaluate different management techniques for the control of cattails in northwest Minnesota and their wildlife effects and potentials to use cattails as a biofuel.	U of MN	Svedarsky, Daniel	- Combine with 058-B.	- Budget includes designated contract with Mattracks, Inc. Harvesting (\$13,600).
	146-F	8		89	Achieving Pollinator Landscapes with the Greatest Multiple Benefits	\$1,714,040	We will identify new and reliable floral resources for bee pollinators on natural and agricultural lands for greatest multiple benefits, including bee and bird habitat, soil conservation, and water quality.	U of MN	Spivak, Marla		
157	164-F	8		52	Innovative Technology to Seed Plants on Streambanks	\$189,000	Develop and evaluate an innovative, safe method of establishing perennial vegetation on steep bare streambanks to reduce sediment and erosion to waterways while providing sustainable, economic and environmental benefits.	U of MN	Wyatt, Gary		
158	149-F	7		73	Developing Forever Green Crops for Minnesotas Agricultural Landscapes	\$847,900	This project will accelerate development of economically viable winter annual and perennial crop options for Minnesota farmers to reduce nonpoint pollution and habitat loss currently associated with annual cropping systems.	U of MN	Wyse, Donald		

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	150-F	7		72	Restoring Aquatic Habitat by Reducing Sediment from Streambanks		Restore aquatic habitat by reducing the 65-70% of river sediment now delivered from streambanks, bluffs, and ravines by developing tools and training for siting and implementing stream flow reduction practices.	U of MN - Water Resources Center	Everett, Leslie		- Budget includes designated contract with I&S Engineering (\$12,700) and MSU-Mankato (\$11,700)
160	152-F	6		71	Northeast Minnesota White Cedar Restoration, Phase 2		White cedar swamps provide valuable ecological and economic functions in Minnesota. This project continues an effort to reverse the decline of white cedar by demonstrating restoration techniques in the state.	BWSR	Krystosek, Dale		 Budget includes designated contracts with SWCD's (\$30,000) and U of MN NRRI (\$60,000). Phase of previous ENRTF appropriation: ML 2011
	154-F	6		66	Protecting the Best of the Best in Southeast		This project will provide a framework for the protection and stewardship of unimpaired waters in Southeast Minnesota. The result will be a template for watershed protection in Minnesota.	The Nature Conservancy	Biske, Richard		- Budget includes \$252,500 in consultant contracts.
162	156-F	5		64	Duluth Post-Flood Trout Stream Riparian Habitat Restoration	\$250,000	Restore 10 miles of native riparian habitat on public land along 16 coldwater trout streams within the City of Duluth that were damaged by the unprecedented June 2012 flood.	Community Action Duluth	Tapp, Brooke	- Flood damage; bonding or LSOHC	
	158-F	5		60	Protect, Restore and Enhance Significant Watershed Habitat.		Within the Metro Conservation Corridors, FMR will install 2 acres of prairie, enhance 31 acres of prairie and enhance 107 acres of forest and 15 acres of oak savanna.	Friends of the Mississippi River	Lewanski, Tom		- Received ML 2013 appropriation.
164	169-F	5		43	Achieve Conservation Objectives through Grazing - Monitor Response	\$1,416,480	The Minnesota Prairie Plan calls for ecological disturbance to maintain diversity. This proposal will provide for conservation grazing materials on 10,00-acres of WMAs and monitoring to develop best management practices.	MN DNR	Tenney, Michael		- "Direct and necessary" costs included: \$116,480 - Budget includes \$965,000 for purchase and installation of fencing; \$36,000 for hunter access gates; \$34,000 installation of solar; \$36,000 for signs as required by law.
165	148-F	4		80	Increasing the Resiliency of Conservation Projects in Minnesota	\$166,710	This project will assess factors related to project resiliency on conservation lands, resulting in guidance and standards to develop resilient landscapes, protecting the publics investment in conservation projects.	BWSR	Shaw, Dan		- Budget includes designated contract with U of MN (\$79,000).
166	153-F	4		68	Increasing Cover Crop Adoption on Working Lands	\$162,500	This project increases cover crop adoption in Minnesota by partnering with farmers' knowledgeable crop advisors, removing barriers to implementation, and demonstrating on-farm feasibility.	BWSR	Lennon, Megan		- Budget includes designated contracts with SWCD's (\$69,500) and certified crop advisors (\$93,000).
167	162-F	4		53	Dredged Sediment for Forest Restoration on Unproductive Minelands	\$495,585	Restore up to 136 acres of unproductive mine stockpile while improving the treatment of municipal sewage and biosolids near Virginia using clean Erie Pier dredged sediment and managed forestry techniques.	U of MN - NRRI	Levar, Tom	-All this really funds is trucking cost.	- Budget includes designated contract with Conservation Forum (\$12,000).

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168	171-F	4		39	Ecological Management Plans - Mississippi River Watershed and Minneapolis		To improve on-the-ground operations and management of natural resources in Minneapolis and the Mississippi River watershed through the creation of ecologically based management plans for vegetation and water.	Minneapolis Park and Recreation Board	Ringold, Jennifer		- Budget includes designated contract with Treeline Landscape Architecture (\$76,800)
169	147-F	3		84	Healthy Prairies: Seed Storage, Beneficial Microbes, and Adaptation		We will collect and preserve germplasm of plants throughout Minnesotas prairie region, study microbial effects on them, and discover the scale of local adaptation and rate of ongoing adaptation.	U of MN	Shaw, Ruth		
170	160-F	3		58	Using CO2 and Drawdown to Manage Shallow Lakes	\$452,000	We will develop a new method for controlling rough fish and invasive species using dry ice in winter and evaluate best practices for nitrogen and phosphorus removal from shallow lakes.	U of MN	Cotner, James		- Budget includes designated contracts with University of St. Thomas (\$176,000) and St. Croix Watershed Research Station (\$82,000).
171	172-F	3		37	Increasing Habitat and Ecosystem Benefits through Forest management		Conduct and coordinate state forest resource assessments, prepare summary reports and communicate through outreach efforts promoting the business investment opportunities resulting in increased and sustainable environmental, social and economic benefits.	MN DNR - Div of Forestry	Jacobson, Kent		- "Direct and necessary" costs included: \$18,600 - Budget includes designated contract with U of MN (\$20,000); conference attendance (\$18,000).
172	174-F	2		33	Victus Farms: Expanding in New Directions		Victus Farms demonstrates an innovative approach to sustainable food and fuel production. We propose to improve our existing system and expand into waste water purification and salt-water system design	City of Silver Bay	Fralich, Lana		- Budget includes designated contract with Cedartree Enterprises, Inc (\$60,000).
173	155-F	1		65	Strategies For Restoring Pine in Minnesota's Forests		Identifies statewide strategies for effective and efficient management investments to restore mixed pine forest cover types. Using inter-organizational collaborations, tests multi-aged, multi-species silvicultural systems, including safe biopesticides for deer control.	U of MN	Hoganson, Howard		Budget includes designated contracts with DNR (\$38,002) and Itasca Community College (\$31,668).
174	159-F	1		59	Better Trout Fishing Through Better Stream Restoration Planning		Groundwater inputs to SE Minnesota streams support healthy trout populations and fisheries. We will explore this link (landscape features, food production, trout diet/growth) in support of restoration activities and management.	U of MN	Venturelli, Paul	- TU ; LSOHC	
175	165-F	1		50	Minnesota Zoo Site Restoration and Native Wildlife Study		The Zoo will integrate habitat conservation, environmental education and recreation by restoring and studying 40 acres of land, creating educational opportunities for those exploring the site along a public trail.		Kornack, Ken		- Budget includes designated contract with School of Environmental Studies (\$30,000); restoration contract for 40 acres at \$399,200.
176	166-F	1		47	Lake Pepin Preservation: Enhancing Local Water Management Capacity		Enhancing local capacity to address erosion problem areas by educating county boards about the benefits and feasibility of enforcing the state shoreland rule and of redetermining outdated drainage systems.	Lake Pepin Legacy Alliance	Main, Rylee		- Project manager is with different organization: Main Street Research and Consulting

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177	170-F	1		39	Improving St. Croix River Basin Water Quality		This project will improve water quality in the St. Croix River Basin by educating and empowering farmers to change farming practices to focus on soil health, grazing and cover crops.	Sustainable Farming Association of MN	Mesko, John		- Budget includes designated contract with Grazing Lands Conservation Association (\$60,000).
178	175-F	1		32	Minnesota Farmers' and Landowners' Guide to Frac Sand Mining	\$142,230	Farmers' Legal Action Group (FLAG) requests \$142,230 from LCCMR to protect Minnesota's land, water, and habitat through production of "Minnesota Farmers' and Landowners' Guide to Frac Sand Mining".		Hayes, Lynn		- Budget includes \$3,000 for panel member partcipation.; \$27,000 for Executive Director salary.
179	176-F	1		30	Middle Fork Crow River Sediment and Nutrient Reduction	. ,	The Middle Fork Crow River has been established as a leading sediment and nutrient exporter. Restoring its streambanks will lower concentrations of pollutants and improve the health of state waters.	Middle Fork Crow River Watershed District	,		- Eligible for Clean Water Fund grant programs Pertains to regulatory requirements.
180	167-F	0		46	Disseminating Sustainable Forest Management Guidelines for Resource Protection		Publication of revised Forest Management Guidelines in a user- friendly field guide and web application format to increase forest resource protection through enhanced understanding and implementation of sustainable forest management practices.	Minneosta Forest Resources Council	· ·		- Budget includes designated contract with MN Logger Education Program (\$15,000).
181	168-F	0		45	Forest Wildlife and Climate Change Research and Outreach		Innovative research addressing habitat quality and distribution for two aspen-dependent bird species considering climate-driven tree species range shifts, plus coordinated outreach through a network of committed partners.		Sagor, Eli		
182	173-F	0		33	Creating Foundations for Farmer Led Conservation Planning		Develop the educational and technical materials, training for farmer and facilitator expertise, support specific local resource assessments, and demonstrate success of farmer led conservation planning councils in Minnesota.	Minnesota Association of Resource Conservation and Development Councils, Inc.	Beckwith, John		- Proposal activity budget doesn't line up with dollars requested Budget includes \$50,000 in grants to 10 farmer-led councils.
183	G. LAND	ACQUISTION FO	OR HABITA	AT AND R	RECREATION (14 Propos	sals / \$28,088,71	5)				
184	177-G	10		82	SNA Acquisition, Restoration, Improvement & Citizen Engagement		Diverse native plant communities and rare species habitat would be acquired as state Scientific and Natural Areas (SNAs) and their quality increased through restoration, site improvements, monitoring, and public involvement.	MN DNR	Booth, Peggy		- "Direct and necessary" costs included: \$151,870 - Budget includes fleet charges in addition to direct and necessary charges; designated contract with Conservation Corps MN (\$143,000). - Received ML 2013 appropriation (did not include acquisition).
185	178-G	8		76	Metropolitan Regional Park System Acquisition Phase 3		Third phase of mult-phase program to acquire 210 to 250 acres of high quality natural resource lands for regional parks and trails in the Metropolitan Regional Park System.	Metropolitan Council	Stefferud, Arne		- Budget includes \$2,250,000 in grants to metro regional park implementing agencies.
186	182-G	6		70	VanderWert Scientific and Natural Area and County Park		Purchase Martin Countys only Prairie Bush Clover prairie, protect it by designating it as a scientific and natural area, buffer it and add it to the county park system.	Fox Lake Conservation League, Inc.	Perrine, Rich		- Budget includes designated contract with Martin County SWCD (\$20,000) Acquisition to be part of Martin County Park system.

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187	184-G	6		67	Mesabi Trail Development - Soudan to Ely Segment		This project consists of the right-of-way acquisition, design and construction of an 18 mile segment of the Mesabi Trail from Soudan tio Ely.	St. Louis & Lake Counties Regional Railroad Authority			- Continuation of previous ENRTF appropriations: ML 2005 and previous
188	179-G	4		74	Native Prairie Stewardship & Prairie Bank Easement Acquisition		This project will protect 1200-acres of native prairie with Prairie Bank easements, apply management to 910-acres of prairie, and landowner stewardship will be encouraged through workshops, technical assistance and planning.	MN DNR	Garms, Jason		- "Direct and necessary" costs included: \$153,680 - In addition to "Direct and necessary" costs included, also includes fleet charges (\$22,000) received ML 2013 appropriation Conservation easements - Budget includes unknown dollar amount to establish long-term easement monitoring and enforcement. Legislation needed to establish such a fund.
189	180-G	4		73	Protection of Granite Rock Outcrop Ecosystem		Over 700 acres of rare and unique Granite Rock Outcrop Ecosystem, located in the Upper Minnesota River Valley, will be preserved and enhanced through perpetual conservation easements.	Renville County Soil & Water Conservation District	Kalahar, Thomas		 Continuation of previous ENRTF appropriations: ML 2007, ML 2009, ML 2010. Conservation easements Budget includes \$50,400 for future easment monitoring and enforcement. Legislation would be needed to establish.
190	181-G	4		73	State Parks and Trails Land Acquisition		Acquire land for habitat and recreation within the statutory boundaries of state parks, state recreation areas, and state trail corridors.	MN DNR	Vanderbosch, Dana		- Received ML 2013 appropriation - "Direct and necessary" costs included: \$5,086
191	183-G	4		69	3,500-Foot Shoreland Acquisition on St. Croix River		Purchase 15 acres and 3,500 feet of St. Croix shoreland paralleling Brown's Creek State Trail providing passive recreation to trail and river users and tourists from a wide area.	Washington County	Harper, Jane		
192	187-G	4		54	Strategic Land Acquisition, Accelerating Sales and Exchanges		Strategic Land Asset Management oportunities for exchange, sale and acquisition of public lands will be planned for and implemented through comprehensive county based planning and completion of priority transactional activities.	MN DNR	Tomlinson, Robert		- "Direct and necessary" costs included: \$46,650
	188-G	4		47	Connecting the Minnesota River Water Trail and Morton		Connects State Trail paddlers to significant area sites by providing the only potable water between New Ulm and Granite Falls, and provides connecting trails, amenities, interpretation, and a campground.	City of Morton	Colwell, Carl		- Budget includes designated contracts with Conservation Corps MN (\$18,000), City of Morton (\$1,700), U of MN for design (\$50,000); building materials (\$35,000); acquisition (\$62,000)
194	190-G	3		Not Evaluated	Preserving Old Growth Forests on School Trust Lands		DNR administers ~20,000 acres of designated old-growth forests on school trust lands. Legislation requires DNR to compensate the school trust in order to preserve these natural resources on trust land.	MN DNR	Vande Linde, Aaron		- Staff did not rank Legislative policy issue Proposal is to pay for DNR eminent domain action on state lands "Direct and necessary" costs included: \$82,104

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195	185-G	2		58	Precision Conservation Models - Applications to Working Forest Lands		This project applies state-of-the-art tools to inform precision conservation acquisitions of threatened forest lands in the vulnerable and rapidly changing Pineland Sands Aquifer region.	MN DNR	Holdsworth, Andy		- Budget includes \$182,000 for DNR professional services.
196	186-G	2		57	Accelerated Reinvest in Minnesota Critical Habitat Matching		Accelerate the Reinvest in Minnesota programs ability to utilize donations and protect 1,000 acres of fish and wildlife habitat by leveraging donations to secure fee title interest in the lands.	MN DNR	Rivers, Patrick		- "Direct and necessary" costs included: \$17,920 - Budget includes \$10,000 for unknown supplies.
197	189-G	2		Not Evaluated	Long-Term Conservation Easement Stewardship Account	\$1,186,667	This project provides principal funding for a conservation easement stewardship account. Investment income from this money will provide long-term funding for stewardship of conservation easements acquired with ENRTF/MFRF appropriations.	MN DNR	Damon, Susan		- Staff did not rank Legislative policy issue Staff requested spreadsheet of appropriations (1973-2011) and related easements addressed by proposals Legislation would be needed to establish such a fund Includes easements purchased with the Future Resources Fund, which was redirected to the General Fund in 2003 and has not been under the purview of LCMR/LCCMR since Some easements purchased using additional other funds including bonding, donations, RIM, Game and Fish Fund, Heritage Fund, Federal Funds, local government, and non-profits.
198	H. OTHER	(2 Proposals /	\$144,000)					!		, , , , ,
199	191-H	0		Not Evaluated	Contract Management		Provide continued contract management and customer service to ENRTF pass-through appropriation recipients. Ensure funds are expended in compliance with appropriation law, state statutes, grants policies, and approved work plans.	MN DNR	Graeber, Amanda		- Received ML 2013 appropriation Staff did not rank.
200	192-Н	0		Not Evaluated	Legacy website funding		The Legacy appropriations bill provided funding for the Legacy web site at the \$100,000 level. At this level of funding, the share from the ENTF would be \$9,000.	LCC	Hubinger, Greg		- Letter from LCC Director Hubinger.