



Becca Nash, Director

MINUTES

Monday, June 17, 2019

8:30 a.m. – 8:35 p.m.

State Office Building, Room 5

St. Paul, MN 55155

Members Present: Sen. Gary Dahms, Sen. Kari Dziedzic, Rep. Rob Ecklund, William Faber, Nancy Gibson, Rep. Rick Hansen, Rep. Josh Heintzeman, Nicole Kessler, Denny McNamara, Norman Moody, Michael Reese, Rep. Tama Theis, Rep. Jean Wagenius, Sen. Torrey Westrom, Della Young

Staff Present: B. Nash, M. Varien, M. Lennon, D. Griffith

Members Excused: Sen. Bill Ingebrigtsen, Sen. David Tomassoni

Members Absent: Rory Anderson

Co-Chair: Rep. Hansen chaired the meeting in Sen. Bill Ingebrigtsen's absence

Co-Chair Hansen started the meeting at 8:30 a.m.

1. Members report potential conflicts of interest regarding today's business

Members restated their conflicts of interest as shown on the spreadsheet (see Attachment #1).

2. Presentations from projects added by the M.L. 2019 Legislature—see attached schedule

Director Nash provided an overview of the materials in members' meeting packets.

The project managers for the projects added during the 2019 Legislative Session provided an overview of their work plan.

3. ACTION: Approve M.L. 2019, First Special Session, Chp. 4, Art. 2, Sec. 2, ENRTF work plans:

Director Nash explained the Work Plan Spreadsheet (see Attachment #2).

B2. Work plans for projects with Legislative changes from LCCMR recommendation (see Work Plan Spreadsheet Lines 69 to 71, including notes on specific project requirements needing LCCMR action with approval)

MOTION: Commissioner Gibson moved from the spreadsheet titled "M.L. 2019, Chp. 4, First Special Session, Art. 2 – Environment and Natural Resources Trust Fund LCCMR Work Plan Approval – Updated 6/14/2019" Line 70 – Subd. 06a, Building Knowledge and Capacity to Solve AIS Problems, U of MN MAISRC, Nicholas Phelps, \$4,000,000 and Line 71 – Subd. 09i, Britton Peak to Lutsen Mountain Bike Trail, Superior Cycling Association, Tim Kennedy, \$350,000 including notes on specific project requirements – motion prevailed.

B3. Work plans for projects that were Legislative additions (see Work Plan Spreadsheet Lines 72 to 86, including notes on specific project requirements needing LCCMR action with approval)

MOTION: Commissioner Heintzeman moved from the spreadsheet titled "M.L. 2019, Chp. 4, First Special Session, Art. 2 – Environment and Natural Resources Trust Fund LCCMR Work Plan Approval – Updated 6/14/2019" Lines 75 to 85 with the exception of Line 82 including notes on specific project requirements:

Sen. Gary Dahms, Sen. Kari Dziedzic, Rep. Rob Ecklund, William Faber, Nancy Gibson,
Rep. Rick Hansen, Rep. Josh Heintzeman, Sen. Bill Ingebrigtsen, Nicole Kessler, Denny McNamara, Norman Moody,
Michael Reese, Rep. Tama Theis, Sen. David Tomassoni, Rep. Jean Wagenius, Sen. Torrey Westrom, Della Young

LEGISLATIVE-CITIZEN COMMISSION ON MINNESOTA RESOURCES

1. Line 75 - Subd. 03s, Native Bee Survey, MN DNR, Jessica Petersen, \$600,000;
 2. Line 76 - Subd. 03t, Diagnostic Test for Chronic Wasting Disease, U of MN, Peter Larsen, \$1,804,000;
 3. Line 77 – Subd. 04t, Managed Aquifer Recharge, U of MN – Water Resources Center, John Bilotta, \$350,000;
 4. Line 78 – Subd. 05d, Increasing Diversity in Environmental Careers, MN DNR, Mimi Daniel, \$250,000;
 5. Line 79 – Subd. 06c, Noxious Weed Detection and Eradication, Minnesota Department of Agriculture, Mark Abrahamson, \$1,000,000;
 6. Line 80 – Subd. 06d, Emerald Ash Borer Response Grants, MN DNR, Valerie McClannahan, \$300,000;
 7. Line 81 – Subd. 08e, Nongame Wildlife Program Acceleration, MN DNR, Cynthia Osmundson, \$513,000;
 8. Line 83 – Subd. 08g, Agricultural Weed Control Using Autonomous Mowers, U of MN – Morris, Eric Buchanan, \$900,000;
 9. Line 84 – Subd. 09p, Rainy Lake Recreational Access and Boat Wash Station, City of Ranier, Sherril Gautreaux, \$200,000; and
 10. Line 85 – Subd. 09q, Historic Bruce Mine Park and Mesabi Trailhead, St. Louis & Lake Counties Regional Railroad Authority, Bob Manzoline, \$1,000,000
- motion prevailed. Commissioner Reese abstained from voting.

B4. Other (see Work Plan Spreadsheet Lines 87 to 88, including notes on specific project requirements needing LCCMR action with approval)

MOTION: Commissioner Moody moved from the spreadsheet titled “M.L. 2019, Chp. 4, First Special Session, Art. 2 – Environment and Natural Resources Trust Fund LCCMR Work Plan Approval – Updated 6/14/2019” Line 88 – Subd. 11b, Optimization Local Mechanical and Pond Wastewater-Treatment Plants, Minnesota Pollution Control Agency (MPCA), Joel Peck, \$500,000 including notes on specific project requirements, and including the requirement for MPCA to work with LCCMR staff to assess cost benefit of purchase or rental of a vehicle – motion prevailed.

4. Environment and Natural Resources Trust Fund 2020 Proposal Presentations (FY21) – see attached schedule (subject to change)

See Attachment #3 for Presentation Schedule for June 17, 2019.

5. Lunch

Members recessed at 12:08 p.m. and reconvened at 1:00 p.m.

6. Continue Environment and Natural Resources Trust Fund 2020 Proposal Presentations (FY21) – see attached schedule (subject to change)

See Attachment #3 for Presentation Schedule for June 17, 2019.

7. LCCMR Business Meeting

No business occurred.

8. Other Business

- **Upcoming meeting on June 24, 2019**

9. Public Testimony

The public is asked to keep their comments brief. If you would like to testify, please contact Diana Griffith at 651-296-2406 or diana.griffith@lccmr.leg.mn by 4:00 pm the day before the meeting and specify to which agenda item your testimony relates. The chair will accommodate testimony at the requested agenda item as time allows.

No public testimony.

10. Adjourn

Meeting adjourned at 8:35 p.m.

Draft

Additional 2019 Conflict of Interest (FY20)

ENRTF ID	Title/Organization	Commission Member
S.F. 7, Chp. 4, Art. 2, Subd. 08g	Agricultural Weed Control Using Autonomous Mowers	Michael Reese

2020 Conflict of Interest (FY21)**Proposals**

ENRTF ID	Title/Organization	Commission Member
025-A	Healthy Prairies III: Restoring MN prairie plant diversity	Rep. Jean Wagenius
031-A	Morrison County Performance Drainage and Hydrology Management Phase II	Bill Faber
147-CH	Carbon on Campus: Connecting Students to Minnesota Ecosystems	Rep. Rick Hansen
173-E	Storing Renewable Energy in Flow-Battery for Grid Use	Michael Reese
178-E	Deep Winter Greenhouses: Passive Solar Winter Food Production	Michael Reese
182-E	Nitrogen Fixation for Fertilizers and Hydrogen Fuels Production	Michael Reese
192-E	Phase 2: Integrated Small-Scale Ammonia Synthesis	Michael Reese
194-E	Minnesota Shrimp Production Using Clean Energy	Michael Reese
201-EH	Identifying Agricultural Energy Consumption and Impacts in Minnesota	Michael Reese
216-F	Implementing Hemp Crop Rotation to Improve Water Quality	Michael Reese Bill Faber

2019 Conflict of Interest (FY20)
For Projects Selected to Present

ENRTF ID	Title/Organization	Commission Member
173-DH	Oak Wilt Suppression at Northern Edge, Morrison Soil & Water Conservation District	Bill Faber
176-E	Development of Clean Energy Storage Systems for Farms, U of MN - WCROC	Michael Reese
196-EH	Modeling Energy and Environmental Roadmaps for Minnesota Communities, City of Morris	Michael Reese

Line #	Subd.	Proposal ID	Title	Organization	Project Manager	FY2019 Trust Fund \$	FY2020 Trust Fund \$	State Classified Staff	Fee Title Acquisition	Easement	Capital Expenditures over \$5,000	Research: Peer-reviewed	Specific work plan approval, notes and contingencies	Pass-Thru via DNR	Approved by LCCMR?
1 A. Consent Agenda - work plans with no significant changes from LCCMR recommendation															
2	03a	001-A	Minnesota Biological Survey	MN DNR	Bruce Carlson		\$ 1,500,000	Yes					-DNR direct and necessary expenses \$90,724 (6% of appropriation)		6/5/2019
3	03b	003-A	Restoring Native Mussels in Streams and Lakes	MN DNR	Mike Davis		\$ 500,000	Yes					-DNR direct and necessary expenses \$41,533 (8.3% of appropriation) - use of classified staff - justified		6/5/2019
4	03c	005-A	Quantifying Exposure of Minnesota's Raptors to Mercury and PFAS	Hawk Ridge Bird Observatory	Matthew Etterson		\$ 250,000					Yes		X	6/5/2019
5	03d	014-A	Minnesota Trumpeter Swan Migration Ecology and Conservation	U of MN	David Andersen		\$ 300,000					Yes			6/5/2019
6	03e	016-A	Spruce Grouse as Indicators for Boreal Forest Connectivity	U of MN - Raptor Center	Julia Ponder		\$ 350,000					Yes			6/5/2019
7	03f	018-A	Understanding Brainworm Transmission to Find Solutions for Minnesota Moose Decline	U of MN	Tiffany Wolf		\$ 400,000					Yes	-Out of state travel expenses		6/5/2019
8	03g	025-A	Mapping Habitat Use and Disease of Urban Carnivores	U of MN	Nicholas McCann		\$ 500,000					Yes			6/5/2019
9	03h	027-A	Accelerated Aggregate Resource Mapping	MN DNR	Heather Arends		\$ 700,000	Yes					-DNR direct and necessary expenses \$33,000 (6.8% of appropriation)		6/5/2019
10	03i	032-AH	Den Boxes for Fishers and Other Nesting Wildlife	U of MN - Duluth NRRI	Michael Joyce		\$ 190,000					Yes			6/5/2019
11	03j	034-AH	Red-headed Woodpeckers as Indicators of Oak Savanna Health	U of MN	David Andersen		\$ 171,000					Yes			6/5/2019
12	03k	035-AH	Implementing Conservation Plans for Avian Species of Concern	Audubon Minnesota	Nathaniel Miller		\$ 124,000							X	6/5/2019
13	03l	038-AH	Mapping Aquatic Habitats for Moose	U of MN	Joseph Bump		\$ 199,000				Yes	Yes	-Capital equipment: Sonde \$17k		6/5/2019
14	03m	046-AH	Improving Statewide GIS Data by Restoring the Public Land Survey	Minnesota Association of County Surveyors	Patrick Veraguth		\$ 135,000							X	6/5/2019
15	03n	002-A	County Geologic Atlases - Part A, Mapping Geology	U of MN - MN Geological Survey	Barbara Lusardi		\$ 2,000,000								6/5/2019
16	03o	275-J	County Geologic Atlases - Part B, Mapping Aquifer Hydrology	MN DNR	Paul Putzier		\$ 2,400,000	Yes					-DNR Direct and necessary expenses \$115,174 (4.7% of appropriation) - use of classified staff - justified		6/5/2019
17	03p	274-J	Unlocking the Science of Minnesota's Moose Decline	Minnesota Zoological Garden	Nicole Mattson		\$ 199,000	Yes					-use of classified staff - justified		6/5/2019
18	04a	048-B	Determining the Influence of Insecticides on Algal Blooms	U of MN	William Arnold		\$ 350,000					Yes			6/5/2019
19	04b	049-B	Benign Design: Environmental Studies Leading to Sustainable Pharmaceuticals	U of MN	William Arnold		\$ 415,000					Yes			6/5/2019
20	04c	050-B	Wastewater Nutrient Reduction through Industrial Source Reduction Assistance	U of MN	Laura Babcock		\$ 200,000								6/5/2019
21	04d	051-B	Quantifying Microplastics in Minnesota's Inland Lakes	U of MN - Duluth	Kathryn Schreiner		\$ 200,000					Yes			6/5/2019
22	04e	052-B	Improving Nitrogen Removal in Greater Minnesota Wastewater Treatment Ponds	U of MN	Paige Novak		\$ 325,000					Yes			6/5/2019
23	04f	054-B	Improving Drinking Water for Minnesotans through Pollution Prevention	U of MN	Raymond Hozalski		\$ 345,000					Yes			6/5/2019

Line #	Subd.	Proposal ID	Title	Organization	Project Manager	FY2019 Trust Fund \$	FY2020 Trust Fund \$	State Classified Staff	Fee Title Acquisition	Easement	Capital Expenditures over \$5,000	Research: Peer-reviewed	Specific work plan approval, notes and contingencies	Pass-Thru via DNR	Approved by LCCMR?
24	04g	055-B	Protecting Minnesota Waters by Removing Contaminants from Wastewater	U of MN	Matt Simcik		\$ 250,000					Yes			6/5/2019
25	04h	058-B	Reducing Municipal Wastewater Mercury Pollution to Lake Superior	Minnesota Pollution Control Agency	Scott Kyser		\$ 250,000					Yes			6/5/2019
26	04i	062-B	Extracting Deicing Salt from Roadside Soils with Plants	U of MN	Bo Hu		\$ 360,000					Yes			6/5/2019
27	04j	064-B	Transformation of Plastic Waste into a Valued Resource	U of MN	Brett Barney		\$ 225,000					Yes			6/5/2019
28	04k	072-B	Accelerating Perennial Crop Production to Prevent Nitrate Leaching	Stearns County Soil and Water Conservation District	Dennis Fuchs		\$ 440,000							X	6/5/2019
29	04l	076-B	Farm-Ready Cover Crops for Protecting Water Quality	Central Lakes College - Ag and Energy Ctr	Keith Olander		\$ 741,000					Yes	-land rental fee \$27,000	X	6/5/2019
30	04m	077-B	Setting Realistic Nitrate Reduction Goals in Southeast Minnesota	U of MN	John Nieber		\$ 350,000					Yes			6/5/2019
31	04n	100-BH	Mapping Unprofitable Cropland for Water and Wildlife	Science Museum of Minnesota - St. Croix Research Station	Jason Ulrich		\$ 100,000					Yes			6/5/2019
32	04o	101-BH	Evaluating Locally-Sourced Materials for Road Salt Reduction	U of MN - Duluth NRRI	Chanlan Chun		\$ 162,000					Yes			6/5/2019
33	04p	102-BH	Minnesota Spring Inventory Final Phase	MN DNR	Paul Putzier		\$ 71,000	Yes					-DNR direct and necessary expenses \$6,724 (9.5% of appropriation)		6/5/2019
34	04q	106-BH	Restoring Impaired Lakes through Citizen-Aided Carp Management	Carver County Water Management Organization	Andrew Dickhart		\$ 106,000							X	6/5/2019
35	04r	116-BH	Spring Biological Nitrate Removal to Protect Drinking Water	City of Fairmont	Troy Nemmers		\$ 175,000						-Capital expenditures: \$58,000 bioreactor - City staff paid using ENRTF funds	X	6/5/2019
36	04s*	053-B	Degrading Chlorinated Industrial Contaminants with Bacteria	U of MN	Paige Novak		\$ 1,000					Yes			6/5/2019
37	05a	122-C	Expanding Camp Sunrise Environmental Program	YouthCARE MN	Lori Arnold		\$ 237,000							X	6/5/2019
38	05b	124-C	Connecting Students to Boundary Waters	Friends of the Boundary Waters Wilderness	Chris Knopf		\$ 450,000							X	6/5/2019
39	05c	143-CH	Mississippi National River and Recreation Area Forest Restoration	Mississippi Park Connection	Mary Hammes		\$ 199,000							X	6/5/2019
40	06b	173-DH	Oak Wilt Suppression at its Northern Edge	Morrison Soil and Water Conservation District	Shannon Wettstein		\$ 100,000							X	6/5/2019
41	07a	176-E	Development of Clean Energy Storage Systems for Farms	U of MN - WCROC	William Northrop		\$ 650,000					Yes	-Capital expenditures: \$141k energy storage systems		6/5/2019
42	07b	186-E	White Earth Nation Community Solar for Economic Resilience	Rural Renewable Energy Alliance	Vicki O'Day		\$ 500,000						-Capital expenditures: \$327k solar array	X	6/5/2019
43	07c	190-EH	Sustainable Solar Energy from Agricultural Plant Byproducts	U of MN - Morris	Ted Pappenfus		\$ 185,000					Yes	Capital expenditures: \$21k ball mills (2 at \$10,590 ea)		6/5/2019
44	07d	196-EH	Morris Energy and Environment Community Resilience Plan	City of Morris	Blaine Hill		\$ 150,000							X	6/5/2019

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45	08a	202-F	Saving Endangered Pollinators through Data-Driven Prairie Restoration	Minnesota Zoological Garden	Erik Runquist		\$ 800,000					Yes	-Includes DNR direct and necessary expenses \$11,528 (1.4% of appropriation) -Out of state travel- justified		6/5/2019
46	08b	213-F	Promoting and Restoring Oak Savanna Using Silvopasture	U of MN	Diomy Zamora		\$ 750,000								6/5/2019
47	08d	232-FH	Conservation and Monitoring of Minnesota's Rare Arctic Plants	U of MN - Duluth	Briana Gross		\$ 135,000					Yes			6/5/2019
48	09a	247-G	Minnesota Scientific and Natural Areas	MN DNR	Judy Schulte		\$ 3,500,000		Yes				-DNR direct and necessary expenses \$113,420 (0.33% of appropriation) - Includes cons. easement stewardship expenses -FeeTitle/Easements: \$1,685,000		6/5/2019
49	09b	248-G	Grants for Local Parks, Trails, and Natural Areas	MN DNR	Audrey Mularie		\$ 3,000,000								6/5/2019
50	09c	249-G	Minnesota State Parks and State Trails In-Holdings	MN DNR	Jennifer Christie		\$ 2,000,000		Yes				-Fee Title/Easements: \$1,950,000		6/5/2019
51	09d	251-G	Minnesota State Trails Development	MN DNR	Kent Skaar		\$ 5,000,000						-DNR direct and necessary expenses \$50,590 (1.01% of appropriation)		6/5/2019
52	09f	253-G	Accessible Fishing Piers	MN DNR	Nancy Stewart		\$ 320,000				Yes		-DNR direct and necessary expenses \$11,397 (3.6% of appropriation) -Capital expenditures: \$276k fishing piers @ \$34k each		6/5/2019
53	09g	254-G	Mesabi Trail Extensions	St. Louis & Lake Counties Regional Railroad Authority	Bob Manzoline		\$ 3,000,000			Yes			-Fee Title/Easements: \$60,000 -Capital expenditures: \$2,400,000 Trail construction	X	6/5/2019
54	09h	264-G	Birch Lake Recreation Area Campground	City of Babbitt	Cathy Bissonette		\$ 350,000							X	6/5/2019
55	09j	257-G	Preserving the Avon Hills with Reverse-Bidding Easements	Saint Johns Arboretum and University	John Geissler		\$ 1,600,000			Yes			-Includes cons. easement stewardship expenses \$168,000 -Fee Title/Easements: \$720,000	X	6/5/2019
56	09k	265-G	Bailey Lake Trail and Fishing Pier	City of Virginia	Britt See-Benes		\$ 550,000				Yes		-Capital Expenditures: \$457,000 dock, electrical conduit, lighting, and construction	X	6/5/2019
57	09l	266-G	Vergas Long Lake Trail	City of Vergas	Julie Lammers		\$ 290,000				Yes		-Capital Expenditures: \$290,000 boardwalk construction	X	6/5/2019
58	09m	269-G	Glacial Edge Trail and Downtown Pedestrian Bridge	City of Fergus Falls	Ryan Miller		\$ 600,000			Yes	Yes		-Capital Expenditures: \$463,900 Trail and bridge construction - Fee Title/Easements: \$20,850	X	6/5/2019
59	09n	271-G	Crane Lake to Vermilion Falls Trail	Voyageur Country ATV	Bruce Beste		\$ 400,000				Yes		-Capital Expenditures: \$400,000 elevated boardwalk construction	X	6/5/2019
60	09o	272-GH	Restoring Five Sections of the Superior Hiking Trail	Superior Hiking Trail Association	Denny Caneff		\$ 191,000				Yes		-Capital Expenditures: \$121,000 trail building	X	6/5/2019
61	10a	273-I	Contract Agreement Reimbursement	MN DNR	Katherine Sherman-Hoehn		\$ 135,000								N/A

Line #	Subd.	Proposal ID	Title	Organization	Project Manager	FY2019 Trust Fund \$	FY2020 Trust Fund \$	State Classified Staff	Fee Title Acquisition	Easement	Capital Expenditures over \$5,000	Research: Peer-reviewed	Specific work plan approval, notes and contingencies	Pass-Thru via DNR	Approved by LCCMR?
62	10b	---	LCCMR Administration	Legislative-Citizen Commission on Minnesota Resources	Becca Nash		\$ 1,400,000								N/A
63	10c	---	LCC Administration	Legislative Coordinating Commission	Sally Olson		\$ 3,000								N/A
64	10d	---	Grants Management System	Legislative-Citizen Commission on Minnesota Resources	Becca Nash	\$ 330,000							No work plan needed		N/A
65	B. Non Consent - work plans needing LCCMR review prior to approval due to various factors														
66	B1. Changes to proposed work plan														
67	08c	225-F	Sauk River Dam Removal and Rock Rapids Replacement	City of Melrose	Tessa Beuning		\$ 2,768,000				Yes		Project potentially inconsistent with appropriation language	X	
68	09e	252-G	National Loon Center	National Loon Center Foundation	Leah Heggerston		\$ 4,000,000				Yes		-\$4m capital expenditures -Revenue reinvestment -Requirements: *Fiscal agent *>25-year Lease w/ USACE *\$6m match *LCCMR approval of naming rights plan for private fundraising	X	6/5/2019
69	B2. Legislative changes from LCCMR recommendation														
70	06a	160-D	Building Knowledge and Capacity to Solve AIS Problems	U of MN - MAISRC	Nicholas Phelps		\$ 4,000,000				Yes	LCCMR delegates per agreement with MAISRC	-Legislative increase \$1m -Activity #3 changed from \$500k to \$925k due to correction of error in initial proposal -Discussion needed with MAISRC re: operations costs once M.L. 2013 ("Develop a Center") concludes -Capital expenditures- TBD -Approve overall work plan contingent on MAISRC staff working with LCCMR staff to break-out individual research efforts for staff approval once individual efforts ready to get underway.		
71	09i	256-G	Britton Peak to Lutsen Mountain Bike Trail	Superior Cycling Association	Tim Kennedy		\$ 350,000						-Legislative increase \$50k	X	
72	B3. Legislative additions - defer to later date														
73	03q	---	Forest and Bioeconomy Research	U of MN - Duluth NRRI	Rolf Weberg		\$ 2,200,000					No per legis. addition	Pending work plan submission and presentation- possibly 7/17 or 7/18		
74	03r	---	Minerals and Water Research	MN DNR	Rolf Weberg		\$ 883,000					No per legis. addition	Pending work plan submission and presentation- possibly 7/17 or 7/18		
75	03s	007-A	Native Bee Survey	MN DNR	Jessica Peterson		\$ 600,000						-DNR direct and necessary expenses \$42,292 (7.0% of appropriation)		

Line #	Subd.	Proposal ID	Title	Organization	Project Manager	FY2019 Trust Fund \$	FY2020 Trust Fund \$	State Classified Staff	Fee Title Acquisition	Easement	Capital Expenditures over \$5,000	Research: Peer-reviewed	Specific work plan approval, notes and contingencies	Pass-Thru via DNR	Approved by LCCMR?
76	03t	---	Diagnostic Test for Chronic Wasting Disease	U of MN	Peter Larsen	\$ 1,804,000					Yes	No per legis. addition	-Capital Expenditures: -80 freezer for RNA sample storage- \$15k -80 freezer for cervid tissue storage- \$15k -BMG Labtech Omega Microplate Reader (RT-QuIC analyses; Veterinary Diagnostic Lab)- \$30k -BioRad CFX384 RT-PCR machine- \$35k -MIC qPCR instrument; field deployable- \$18k -Implen NanoPhotometer for protein quantification- \$17k -Allegra x-30R Beckman Coulter Refrigerated Centrifuge- \$20k -BioRad ChemiDoc MP Imaging System (western blot analyses and imaging)- \$38k -Agilent Bioanalyzer 2100 - \$18k		
77	04t	---	Managed Aquifer Recharge	U of MN - Water Resources Center	John Bilotta	\$ -	\$ 350,000								
78	05d	123-C	Increasing Diversity in Environmental Careers	MN DNR	Mimi Daniel	\$ -	\$ 250,000						-Does NOT include DNR Direct and necessary		
79	06c	---	Noxious Weed Detection and Eradication	Minnesota Department of Agriculture	Mark Abrahamson	\$ -	\$ 1,000,000						- Includes \$650k grants to local govt units - Single-source contract- justified		
80	06d	---	Emerald Ash Borer Response Grants	MN DNR	Valerie McClannahan	\$ -	\$ 300,000						- Includes \$300k grants to local govt units -Does NOT include DNR Direct and necessary		
81	08e	178-F	Nongame Wildlife Program Acceleration	MN DNR	Cynthia Osmundson	\$ -	\$ 513,000						-DNR Direct and necessary expense \$27,200 (5.3% of ENRTF request)		
82	08f	---	Lawns to Legumes	BWSR	Angie Becker-Kudelka	\$ 806,000	\$ 94,000						Pending work plan submission and presentation- - possibly 7/17 or 7/18		
83	08g		Agricultural Weed Control Using Autonomous Mowers	U of MN - Morris	Eric Buchanan	\$ -	\$ 900,000				Yes		-Capital Expenditures: Weed hunter robot platform vehicle- \$130k, Rover robotics 4WD package- \$13,380 -Computer services fee- justified		
84	09p	262-G	Rainy Lake Recreational Access and Boat Wash Station	City of Ranier	Sherril Gautreaux	\$ -	\$ 200,000				Yes		-Capital expenditures: \$119,325 parking lot, \$31,175 AIS boat wash station, \$10,500 kiosk, utilities, and landscaping	X	
85	09q	---	Historic Bruce Mine Park and Mesabi Trailhead	St. Louis & Lake Counties Regional Railroad Authority	Bob Manzoline	\$ -	\$ 1,000,000				Yes		-Requires an environmental assessment to evaluate negative environmental impacts and potential cultural disturbance. -Capital expenditures: \$615k demo and grading, \$50k buildings and structures; \$90k electrical systems	X	
86	11a	---	Water Infrastructure Loans	Public Facilities Authority	Jeff Freeman	\$ -	\$ -						No work plan needed		
87	B4. Work plan not ready for approval - defer to later date														
88	11b	---	Optimization Local Mechanical and Pond Wastewater-Treatment Plants	Minnesota Pollution Control Agency	Joel Peck		\$ 500,000				Yes		-Capital Expenditures: \$50k vehicle for Minnesota Rural Waters Association- eligibility uncertain		
* Subd. 4s has a reallocation of \$149,000 from FY2016 appropriation															

FINAL

Day 1 - LCCMR Presentation Schedule - 2020 Proposals
Monday, June 17, 2019 - Co-chair: Sen. Bill Ingebrigtsen
Room 5, State Office Building, St. Paul, MN
8:30 AM - 8:35 PM

Attachment #3

Time	ID #	Project Title	\$ Request	Organization	Project Manager
8:30 AM	2019 11b	Optimizing Local Mechanical and Pond Wastewater-Treatment Plants	\$500,000	Minnesota Pollution Control Agency	Joel Peck
8:45 AM	2019 08e	Nongame Wildlife Program Acceleration	\$513,000	MN DNR	Cynthia Osmundson
9:00 AM	2019 06d	Emerald Ash Borer Response Grants	\$300,000	MN DNR	Valerie McClannahan
9:15 AM	2019 06c	Noxious Weed Detection and Eradication	\$1,000,000	Minnesota Department of Agriculture	Mark Abrahamson
9:30 AM	2019 05d	Increasing Diversity in Environmental Careers	\$250,000	MN DNR	Mimi Daniel
9:45AM	2019 04t	Managed Aquifer Recharge	\$350,000	U of MN - Water Resources Center	John Bilotta
10:00 AM	2019 03t	Diagnostic Test for Chronic Wasting Disease	\$1,804,000	U of MN	Peter Larsen
10:15 AM	2019 03s	Native Bee Survey	\$600,000	MN DNR	Jessica Petersen
10:30 AM	2019 08g	Agricultural Weed Control Using Autonomous Mowers	\$900,000	U of MN - Morris	Eric Buchanan
10:45 AM	2019 09q	Historic Bruce Mine Park and Mesabi Trailhead	\$1,000,000	St. Louis & Lake Counties Regional Railroad Authority	Bob Manzoline
11:00 AM	2019 09p	Rainy Lake Recreational Access and Boat Wash Station	\$200,000	City of Ranier	Sheril Gautreaux
11:15 AM	---	Agenda item - WP approvals			
11:30 AM	247-FH	Pollinator Habitat Creation Along the Urban Mississippi River	\$129,297	Friends of the Mississippi River	Betsy Daub
11:45 AM	138-CH	Engaging Minnesotans with Phenology: Radio, Podcasts, Citizen Science	\$198,478	Northern Community Radio, Inc.	Maggie Montgomery
12:00 PM	116-BH	Expanding Protection of Minnesota Water through Industrial Conservation	\$178,430	U of MN	Laura Babcock
12:15 PM	---	Break for Lunch			

1:00 PM	167-DH	How Effective and Protective are AIS Removal Methods?	\$110,699	U of MN - Duluth NRRI	Valerie Brady
1:15 PM	056-AH	Conserving Black Terns and Forsters Terns in Minnesota	\$198,640	U of MN - Duluth NRRI	Annie Bracey
1:30 PM	286-GH	Construction of Pedestrian/Bicycle Bridge on LSSB/GRR	\$133,000	Lady Slipper Scenic Byway, Inc.	Bruce Hasbargen
1:45 PM	244-FH	Peatland Restoration in the Lost River State Forest	\$135,646	Roseau River Watershed District	Torin McCormack
2:00 PM	205-EH	Rural Distributed Renewable Energy and Back-Up Power	\$198,500	Northwest Renewable Energy LLC	Jill Thibert
2:15 PM	285-GH	Chippewa Acquisition, Recreation and Education	\$160,000	Chippewa County	Scott Williams
2:30 PM	196-EH	The Beltrami County Climate Vulnerability Assessment	\$180,000	Headwaters Regional Development Commission	Joel Anastasio
2:45 PM	169-DH	Rainy Lake Non-native Hybridized Cattail Removal	\$199,500	Koochiching SWCD	Eric Olson
3:00 PM	058-AH	How to Save the Cisco-Trout Lakes	\$185,438	U of MN -Duluth- Sea Grant	John Downing
3:15 PM	255-FH	Increase Golden Shiner Production to Protect Aquatic Communities	\$188,161	U of MN - Duluth - Sea Grant	John Downing
3:30 PM	117-BH	Minnesota Sentinel Springs, Understanding Groundwater Recharge and Chemistry	\$182,267	MN DNR	John Barry
3:45 PM	047-AH	Do Beavers Buffer Against Droughts and Floods?	\$168,400	Voyageurs National Park	Steve Windels
4:00 PM	048-AH	Enhancing Bat Recovery by Optimizing Artificial Roost Structures	\$190,271	MN DNR	Ed Quinn
4:15 PM	139-CH	Driving Conservation Behavior for Mussels and Water Quality	\$191,580	Minnesota Zoological Society	Emily Kalnicky
4:30 PM	062-AH	Engagement and Monitoring for the Insect Apocalypse	\$191,824	MN DNR	Jessica Petersen
4:45 PM	198-EH	Eco-Friendly Plastics from Cloquet Pulp-Mill Lignin	\$193,967	U of MN	Simo Sarkanen
5:00 PM	259-FH	Restoring Turf to Native Pollinator Gardens Across Metro	\$197,000	Wilderness in the City	Holly Jenkins
5:15 PM	049-AH	Tools for Supporting Healthy Ecosystems and Pollinators	\$198,397	MN DNR	Jessica Petersen
5:30 PM	064-AH	Environmental Factors Influencing Nutritional Content of Wild Rice	\$198,092	U of MN	Emily Onello

5:45 PM	075-B	Understanding and Managing Persistent Chloride Pollution in Freshwaters	\$299,000	U of MN	Jacques Finlay
6:00 PM	199-EH	Diverting Unsold Food from Landfills, Reducing Greenhouse Gases	\$130,000	Second Harvest Heartland	April Rog
6:15 PM	145-CH	River Watch on the Minnesota River	\$100,000	Friends of the Minnesota Valley	Ted Suss
6:30 PM	245-FH	Prescribed Burning for Brushland-Dependent Species-Phase II	\$147,428	U of MN	Rebecca Montgomery
6:45 PM	137-CH	YES! Students Take on Water Quality Challenge Phase-II	\$199,700	Prairie Woods Environmental Learning Center	Shelli-Kae Foster
7:00 PM	051-AH	Modern eDNA Technology for Better Game Fish Census	\$200,000	U of MN	Michael Sadowsky
7:15 PM	008-A	Foundational Hydrology Data for Wetland Protection and Restoration	\$461,499	MN DNR	Doug Norris
7:35 PM	082-B	Is Glyphosate causing harmful Algal Blooms?	\$427,000	U of MN	James Cotner
7:55 PM	114-B	Innovative Solution for Protecting Minnesota from PFAS contamination	\$750,000	Dem-Con	Bill Keegan
8:15 PM	---	LCCMR Business Meeting/Process and Issue Discussion			
8:35 PM	---	Adjourn			