

**M.L. 2021 Environment and Natural Resources Trust Fund (ENRTF)
LCCMR Appropriations for RFP 2021/FY 2022**

On June 25, 2021, the Legislature adopted 88 LCCMR recommendations as recommended in 2021. They also added one additional appropriation, primarily using unspent funds from previous projects for \$840,000. On June 29, 2021, 89 appropriations were signed into law by the Governor as M.L. 2021, First Special Session, Chapter 6, Article 6, with \$70,881,000 FY22 and \$840,000 recaptured from prior fiscal years, for \$71,721,000 total appropriations.

Topic Area	Total LCCMR \$ Appropriated	Multiple FY's Reallocated \$	FY2021 Trust Fund \$	Percentage of Total Appropriations
Subd. 03 Foundational Natural Resource Data and Information 14 Appropriations	\$10,459,000	\$0	\$10,459,000	14.58%
Subd. 04 Water Resources 10 Appropriations	\$4,771,000	\$0	\$4,771,000	6.65%
Subd. 05 Environmental Education 7 Appropriations	\$2,687,000	\$0	\$2,687,000	3.75%
Subd. 06 Aquatic and Terrestrial Invasive Species 7 Appropriations	\$6,148,000	\$0	\$6,148,000	8.57%
Subd. 07 Air Quality, Climate Change, and Renewable Energy 6 Appropriations	\$6,205,000	\$0	\$6,205,000	8.65%
Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat 18 Appropriations	\$6,429,000	\$0	\$6,429,000	8.96%
Subd. 09 Land Acquisition, Habitat, and Recreation 22 Appropriations	\$32,062,000	\$0	\$32,062,000	44.70%
Subd. 10 Administrative and Emerging Issues 4 Appropriations	\$2,120,000	\$0	\$2,120,000	2.96%
Subd. 19 Transfers; Natural Resources Research Institute 1 Appropriation (amounts are estimate)	\$840,000	\$840,000	\$0	1.17%
Total Appropriations	\$71,721,000	\$840,000	\$70,881,000	100.00%

Fund Source	\$ Amount
FY 2022 - Environment and Natural Resources Trust Fund (ENRTF)	\$70,881,000
ENRTF Dollars Reallocated from 2019 Appropriations (FY20)- estimate	\$220,000
ENRTF Dollars Reallocated from 2018 Appropriations (FY19)- estimate	\$350,000
ENRTF Dollars Reallocated from 2017 Appropriations (FY18)- estimate	\$270,000
Total \$	\$71,721,000

2021 (FY22) Environment and Natural Resources Trust Fund (ENRTF) Appropriations
M.L. 2021, First Special Session, Chp. 6, Art. 6, Sec. 2
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Subd.	ENRTF ID	Title	Organization	Project Manager	ENRTF \$ Multiple FYs	ENRTF \$ FY2022	TOTAL ENRTF \$ Appropriated
Subd. 03 Foundational Natural Resource Data and Information (14 Projects - Subtotal = \$10,459,000)							
03a	2021-032	What's Bugging Minnesota's Insect-Eating Birds?	U of MN, Duluth - NRRI	Alexis Grinde	\$ -	\$ 199,000	\$ 199,000
03b	2021-055	Protecting Minnesota's Beneficial Macroalgae: All Stoneworts Aren't Starry	MN DNR, Ecological and Water Resources Division	Donna Perleberg	\$ -	\$ 811,000	\$ 811,000
03c	2021-071	County Groundwater Atlas	MN DNR, Ecological and Water Resources Division	Paul Putzier	\$ -	\$ 1,875,000	\$ 1,875,000
03d	2021-087	Improving Resiliency and Conservation Outcomes For Minnesota Turtles	Minnesota Zoological Society	Tricia Markle	\$ -	\$ 391,000	\$ 391,000
03e	2021-113	Minnesota Biological Survey	MN DNR, Ecological and Water Resources Division	Bruce Carlson	\$ -	\$ 1,500,000	\$ 1,500,000
03f	2021-118	Groundwater Contamination Mapping Project - Phase II	Minnesota Pollution Control Agency	Myrna Halbach	\$ -	\$ 800,000	\$ 800,000
03g	2021-138	Geologic Atlases for Water Resource Management	U of MN, MN Geological Survey	Barbara Lusardi	\$ -	\$ 3,092,000	\$ 3,092,000
03h	2021-140	Redwood County Reinvest in Minnesota Easement Evaluation and Public Outreach	Redwood Soil & Water Conservation District	Scott Wold	\$ -	\$ 197,000	\$ 197,000
03i	2021-159	Collaborative State and Tribal Wild Rice Monitoring Program	MN DNR, Ecological and Water Resources Division	Josh Knopik	\$ -	\$ 644,000	\$ 644,000
03j	2021-238	Morrison County Performance Drainage and Hydrology Management II	Morrison Soil and Water Conservation District	Shannon Wettstein	\$ -	\$ 197,000	\$ 197,000
03k	2021-278	Exploring Minnesota's Wetlands: Our Resource For Future Medicine	U of MN, Crookston	Brian Dingmann	\$ -	\$ 210,000	\$ 210,000
03l	2021-289	A Biodiversity Checkup for Minnesota's Big Woods	U of MN, College of Food, Agricultural and Natural Resource Sciences	Lee Frelich	\$ -	\$ 109,000	\$ 109,000
03m	2021-321	Microbiome In Raptors: A New Tool For Conservation	U of MN, Raptor Center	Julia Ponder	\$ -	\$ 129,000	\$ 129,000
03n	2021-396	Bioacoustics for Broad-Scale Species Monitoring and Conservation	U of MN, College of Food, Agricultural and Natural Resource Sciences	Elena West	\$ -	\$ 305,000	\$ 305,000
Subd. 03 Foundational Natural Resource Data and Information Subtotal =					\$ -	\$ 10,459,000	\$ 10,459,000
Subd. 04 Water Resources (10 Projects - Subtotal = \$4,771,000)							
04a	2021-050	Trout Stream Habitat Restoration Success	U of MN, Duluth - NRRI	Valerie Brady	\$ -	\$ 319,000	\$ 319,000
04b	2021-115	Novel Nutrient Recovery Process from Wastewater Treatment Plants	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bo Hu	\$ -	\$ 200,000	\$ 200,000
04c	2021-121	Monitoring Emerging Viruses In Minnesota's Urban Water Cycles	U of MN, College of Biological Sciences	Sebastian Behrens	\$ -	\$ 416,000	\$ 416,000
04d	2021-144	Microgeographic Impact of Antibiotics Released from Identified Hotspots	U of MN, College of Veterinary Medicine	Randall Singer	\$ -	\$ 508,000	\$ 508,000

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Subd.	ENRTF ID	Title	Organization	Project Manager	ENRTF \$ Multiple FYs	ENRTF \$ FY2022	TOTAL ENRTF \$ Appropriated
04e	2021-266	Sustainable Irrigation Management: Expanding a Web Application	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bryan Runck	\$ -	\$ 1,139,000	\$ 1,139,000
04f	2021-358	Assessing Membrane Bioreactor Wastewater Treatment Efficacy	Minnesota State Colleges and Universities, St. Cloud State University	Heiko Schoenfuss	\$ -	\$ 419,000	\$ 419,000
04g	2021-364	Evaluating Coronavirus and Other Microbiological Contamination of Drinking Water Sources from Wastewater	U of MN, College of Science and Engineering	Timothy LaPara	\$ -	\$ 594,000	\$ 594,000
04h	2021-376	St. James Pit Water-Level Control Study	City of Aurora	Stefanie Dickinson	\$ -	\$ 259,000	\$ 259,000
04i	2021-384	Long-Term Nitrate Mitigation by Maintaining Profitable Kernza Production	Stearns County Soil and Water Conservation District	Dennis Fuchs	\$ -	\$ 485,000	\$ 485,000
04j	2021-390	Antibiotic Resistance and Wastewater Treatment: Problems And Solutions	University of St. Thomas	Justin Donato	\$ -	\$ 432,000	\$ 432,000
Subd. 04 Water Resources Subtotal =					\$ -	\$ 4,771,000	\$ 4,771,000
Subd. 05 Environmental Education (7 Projects - Subtotal \$2,687,000)							
05a	2021-042	Increasing Outdoor Learning for Young Minnesotans	Wolf Ridge Environmental Learning Center	Peter Smerud	\$ -	\$ 383,000	\$ 383,000
05b	2021-131	Pollinator Education in the Science Classroom	U of MN, College of Food, Agricultural and Natural Resource Sciences	Elaine Evans	\$ -	\$ 366,000	\$ 366,000
05c	2021-132	Minnesota Freshwater Quest: Environmental Education for Youth	Wilderness Inquiry	Julie Edmiston	\$ -	\$ 699,000	\$ 699,000
05d	2021-175	Minnesota Master Naturalist: Nature for New Minnesotans	U of MN, College of Food, Agricultural and Natural Resource Sciences	Robert Blair	\$ -	\$ 293,000	\$ 293,000
05e	2021-186	The Voyageurs Classroom Initiative	Voyageurs National Park Association	Christina Hausman Rhode	\$ -	\$ 348,000	\$ 348,000
05f	2021-320	Restoring Land and Reviving Heritage: Conservation Through Indigenous Culture	Belwin Conservancy	Katie Bloome	\$ -	\$ 420,000	\$ 420,000
05g	2021-323	Expanding Access to Environmental Education for Underserved Communities	U of MN, Raptor Center	Julia Ponder	\$ -	\$ 178,000	\$ 178,000
Subd. 05 Environmental Education Subtotal =					\$ -	\$ 2,687,000	\$ 2,687,000
Subd. 06 Aquatic and Terrestrial Invasive Species (7 Projects - Subtotal = \$6,148,000)							
06a	2021-017	Starch Allocation Patterns of Invasive Starry Stonewort Harvested from Lake Koronis	Minnesota State Colleges and Universities, Minnesota State University Mankato	Ryan Wersal	\$ -	\$ 101,000	\$ 101,000
06b	2021-091	Long-Term Efficacy of Invasive Removal in Floodplain Forests	Macalester College	Mike Anderson	\$ -	\$ 25,000	\$ 25,000
06c	2021-162	Oak Wilt Suppression at the Northern Edge - Phase II	Morrison Soil and Water Conservation District	Shannon Wettstein	\$ -	\$ 423,000	\$ 423,000

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06d	2021-164	Biocontrol of Invasive Species in Bee Lawns and Parklands	U of MN, College of Food, Agricultural and Natural Resource Sciences	Vera Krischik	\$ -	\$ 425,000	\$ 425,000
06e	2021-188	Building Knowledge and Capacity for AIS Solutions	U of MN, MAISRC	Nicholas Phelps	\$ -	\$ 3,750,000	\$ 3,750,000
06f	2021-217	Evaluating Minnesota's Last Best Chance to Stop Carp	U of MN, College of Food, Agricultural and Natural Resource Sciences	Peter Sorensen	\$ -	\$ 424,000	\$ 424,000
06g	2021-313	Stop Starry Invasion with Community Invasive Species Containment	Minnesota Lakes and Rivers Advocates	Jeff Forester	\$ -	\$ 1,000,000	\$ 1,000,000
Subd. 06 Aquatic and Terrestrial Invasive Species Subtotal =					\$ -	\$ 6,148,000	\$ 6,148,000
Subd. 07 Air Quality, Climate Change, and Renewable Energy (6 Projects - Subtotal = \$6,205,000)							
07a	2021-010	Enhanced Thermo-Active Foundations for Space Heating in Minnesota	U of MN, Duluth	Aggrey Mwesigye	\$ -	\$ 312,000	\$ 312,000
07b	2021-169	Storing Renewable Energy in Flow Battery for Grid Use	U of MN, Morris	Bryan Herrmann	\$ -	\$ 2,408,000	\$ 2,408,000
07c	2021-191	Agrioltaics to Improve the Environment and Farm Resiliency	U of MN, WCROC	Bradley Heins	\$ -	\$ 646,000	\$ 646,000
07d	2021-294	Behavioral Response of Bald Eagles to Acoustic Stimuli	U of MN, St. Anthony Falls Laboratory	Christopher Feist	\$ -	\$ 261,000	\$ 261,000
07e	2021-344	Create Jobs Statewide by Diverting Materials from Landfills	Better Futures Minnesota	Steve Thomas	\$ -	\$ 2,244,000	\$ 2,244,000
07f	2021-402	Strengthening Minnesota's Reuse Economy to Conserve Natural Resources	ReUse Minnesota	Jennifer Kedward	\$ -	\$ 334,000	\$ 334,000
Subd. 07 Air Quality, Climate Change, and Renewable Energy Subtotal =					\$ -	\$ 6,205,000	\$ 6,205,000
Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat (18 Projects - Subtotal = \$6,429,000)							
08a	2021-022	Camp Ripley Sentinel Landscape Forest Restoration and Enhancements	Crow Wing Soil and Water Conservation District	Melissa Barrick	\$ -	\$ 731,000	\$ 731,000
08b	2021-039	Restoring Mussels in Streams and Lakes - Continuation	MN DNR, Ecological and Water Resources Division	Mike Davis	\$ -	\$ 619,000	\$ 619,000
08c	2021-058	Pollinator Central II: Habitat Improvement With Community Monitoring	Great River Greening	Rebecca Tucker	\$ -	\$ 631,000	\$ 631,000
08d	2021-062	Preserving Minnesota's Only Ball Cactus Population	U of MN, Landscape Arboretum	David Remucal	\$ -	\$ 103,000	\$ 103,000
08e	2021-065	Prescribed-Fire Management for Roadside Prairies - Phase II	Minnesota Department of Transportation	Nathan Johnson	\$ -	\$ 217,000	\$ 217,000
08f	2021-084	Restoring Upland Forests for Birds	American Bird Conservancy	Kevin Sheppard	\$ -	\$ 193,000	\$ 193,000
08g	2021-097	Minnesota Green Schoolyards	The Trust for Public Land	Eric Weiss	\$ -	\$ 250,000	\$ 250,000
08h	2021-137	Plumbing the Muddy Depths of Superior Hiking Trail	Superior Hiking Trail Association	Lisa Luokkala	\$ -	\$ 187,000	\$ 187,000
08i	2021-212	Reducing Plastic Pollution with Biodegradable Erosion Control Products	Agricultural Utilization Research Institute	Riley Gordon	\$ -	\$ 200,000	\$ 200,000
08j	2021-223	Remote Sensing and Super-Resolution Imaging of Microplastics	U of MN, St. Anthony Falls Laboratory	Ardeshir Ebtehaj	\$ -	\$ 309,000	\$ 309,000

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08k	2021-229	Woodcrest Trail Expansion	Country Manor Campus, LLC	Sara Gabrielson	\$ -	\$ 16,000	\$ 16,000
08l	2021-231	Urban Pollinator and Native American Cultural Site Restoration	Friends of the Mississippi River	Lisa Mueller	\$ -	\$ 213,000	\$ 213,000
08m	2021-280	Demonstrating Real-World Economic and Soil Benefits of Cover Crops and Alternative Tillage	Redwood Soil & Water Conservation District	Scott Wold	\$ -	\$ 288,000	\$ 288,000
08n	2021-308	Creating Cost-Effective Forage and Management Actions for Pollinators	U of MN, College of Food, Agricultural and Natural Resource Sciences	Daniel Cariveau	\$ -	\$ 198,000	\$ 198,000
08o	2021-322	Shoreline Stabilization, Fishing, and ADA Improvements at Silverwood Park	Three Rivers Park District	Jonathan Vlaming	\$ -	\$ 200,000	\$ 200,000
08p	2021-337	Lawns To Legumes Program - Phase II	Board of Water and Soil Resources	Dan Shaw	\$ -	\$ 993,000	\$ 993,000
08q	2021-375	Reintroducing Bison to Spring Lake Park Reserve	Dakota County	Tom Lewanski	\$ -	\$ 560,000	\$ 560,000
08r	2021-377	Elm Creek Habitat Restoration Final Phase	City of Champlin	Todd Tuominen	\$ -	\$ 521,000	\$ 521,000
Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat Subtotal =					\$ -	\$ 6,429,000	\$ 6,429,000
Subd. 09 Land Acquisition, Habitat, and Recreation (22 Projects - Subtotal = \$32,062,000)							
09a	2021-012	Perham to Pelican Rapids Regional Trail (McDonald Segment)	Otter Tail County	Matthew Yavarow	\$ -	\$ 2,245,000	\$ 2,245,000
09b	2021-028	Mesabi Trail CSAH 88 to Ely	St. Louis & Lake Counties Regional Railroad Authority	Robert Manzoline	\$ -	\$ 1,650,000	\$ 1,650,000
09c	2021-029	Southwest Minnesota Single-Track Trail	Jackson County	Jeremy Bartosh	\$ -	\$ 190,000	\$ 190,000
09d	2021-043	Local Parks, Trails, and Natural Areas Grant Programs	MN DNR, Grants Unit	Audrey Mularie	\$ -	\$ 2,250,000	\$ 2,250,000
09e	2021-049	Metropolitan Regional Parks System Land Acquisition- Phase VII	Metropolitan Council	Jessica Lee	\$ -	\$ 2,250,000	\$ 2,250,000
09f	2021-069	Sauk Rapids Lions Park Riverfront Improvements	City of Sauk Rapids	Todd Schultz	\$ -	\$ 463,000	\$ 463,000
09g	2021-092	City Of Brainerd - Mississippi Landing Trailhead	City of Brainerd	David Chanski	\$ -	\$ 2,850,000	\$ 2,850,000
09h	2021-105	Native Prairie Stewardship and Prairie Bank Easement Acquisition	MN DNR, Ecological and Water Resources Division	Judy Schulte	\$ -	\$ 1,341,000	\$ 1,341,000
09i	2021-109	Moose Lake - Trunk Highway 73 Trail	City of Moose Lake	Katie Bloom	\$ -	\$ 330,000	\$ 330,000
09j	2021-151	SNA Acquisition, Restoration, Citizen-Science and Outreach	MN DNR, Ecological and Water Resources Division	Molly Roske	\$ -	\$ 3,336,000	\$ 3,336,000
09k	2021-154	Precision Acquisition for Restoration, Groundwater Recharge, and Habitat	Shell Rock River Watershed District	Courtney Phillips	\$ -	\$ 467,000	\$ 467,000
09l	2021-222	Lake Brophy Single-Track Trail Expansion	Douglas County	Brad Bonk	\$ -	\$ 100,000	\$ 100,000
09m	2021-325	Veterans on the Lake	Veterans on the Lake	Neil Olson	\$ -	\$ 553,000	\$ 553,000
09n	2021-329	Crane Lake Voyageurs National Park Visitor Center - Continuation	Town of Crane Lake	JoAnn Pohlman	\$ -	\$ 2,700,000	\$ 2,700,000
09o	2021-330	Brookston Campground, Boat Launch, and Outdoor Recreational Facility Planning	City of Brookston	Kaycee Melin	\$ -	\$ 425,000	\$ 425,000
09p	2021-332	Moose and Seven Beaver Multiuse Trails Upgrade	City of Hoyt Lakes	Becky Lammi	\$ -	\$ 900,000	\$ 900,000

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09q	2021-338	Above the Falls Regional Park Acquisition	Minneapolis Parks and Recreation Board	Adam Arvidson	\$ -	\$ 950,000	\$ 950,000
09r	2021-339	Silver Lake Trail Improvement Project	City of Virginia	Britt See-Benes	\$ -	\$ 1,071,000	\$ 1,071,000
09s	2021-362	Minnesota State Trails Development	MN DNR, State Parks and Trails Division	Kent Skaar	\$ -	\$ 4,266,000	\$ 4,266,000
09t	2021-363	Highbanks Ravine Bat Habernaculum Project	City of St. Cloud	Lisa Vollbrecht	\$ -	\$ 825,000	\$ 825,000
09u	2021-371	State Parks and State Trails Inholdings	MN DNR, State Parks and Trails Division	Shelby Kok	\$ -	\$ 2,560,000	\$ 2,560,000
09v	2021-380	Accessible Fishing Piers and Shore Fishing Areas	MN DNR, State Parks and Trails Division	Nancy Stewart	\$ -	\$ 340,000	\$ 340,000
Subd. 09 Land Acquisition, Habitat, and Recreation Subtotal =					\$ -	\$ 32,062,000	\$ 32,062,000
Subd. 10 Administrative and Emerging Issues (4 Projects - Subtotal = \$2,120,000)							
10a	2021-027	Contract Agreement Reimbursement	MN DNR, Grants Unit	Katherine Sherman-Hoehn	\$ -	\$ 135,000	\$ 135,000
10b	2021-464	Legislative-Citizen Commission on Minnesota Resources (LCCMR) Administration	LCCMR	Becca Nash	\$ -	\$ 1,750,000	\$ 1,750,000
10c	2021-466	Emerging Issues Account	LCCMR	Becca Nash	\$ -	\$ 233,000	\$ 233,000
10d	2021-465	Legislative Coordinating Commission (LCC) Administration	LCC	Sally Olson	\$ -	\$ 2,000	\$ 2,000
Subd. 10 Administrative and Emerging Issues Subtotal =					\$ -	\$ 2,120,000	\$ 2,120,000
Subd. 19 Transfers; Natural Resources Research Institute (1 Project - Subtotal = \$840,000)							
19	TBD	Forest Health Research, Development and Demonstration (of which \$500k is for 'Forest management assessment tool')*	UMN- NRRI	John DuPlissis	\$ 840,000	\$ -	\$ 840,000
Subd. 19 Transfers; Natural Resources Research Institute Subtotal =					\$ 840,000	\$ -	\$ 840,000
TOTAL ENRTF \$					\$ 840,000	\$ 70,881,000	\$ 71,721,000

*Estimate amount, pending final close-out of completing projects being transferred