M.L. 2019 Projects

On May 24, 2019, the legislature adopted 65 LCCMR recommendations as recommended, provided additional funds to two recommendations and modified one other. They also added 14 additional appropriations, primarily using funds freed up (\$2.94 million FY19; \$7.84 million FY20) following the repeal of M.L. 2018, Chapter 214, Article 6, Section 4 appropriation bonds. On May 31, 2019, 82 appropriations were signed into law by the Governor as M.L. 2019, First Special Session, Chapter 4, Article 2, for \$64,476,000 total appropriations (\$149,000 FY16, \$2,940,000 FY19, and \$61,387,000 FY20).

Minnesota Session Laws - 2019, First Special Session, Chapter 4, Article 2 (beginning July 1, 2019)

Other Formats of the M.L. 2019 projects adopted by the Legislature and signed by the Governor:

- PDF list (without summary)
- PDF list (with summary)
- <u>Table</u> (web)
- <u>Summary</u> of appropriations and expected outcomes

When available, we have provided links to web sites related to the project. The sites linked to this page are not created, maintained, or endorsed by the LCCMR office or the Minnesota Legislature.

MN Laws 2019 First Special Session, Chapter 4, Article 2, Section 2

Subd. 03 Foundational Natural Resource Data and Information

Minnesota Biological Survey

Subd. 03a \$1,500,000 TF (FY2020)

Bruce Carlson

MN DNR 500 Lafayette Road, Box 25 St. Paul, MN 55155 Phone: (651) 259-5083

Email: <u>bruce.carlson@state.mn.us</u>

Web: https://www.dnr.state.mn.us/mbs/index.html

Appropriation Language

\$1,500,000 the first year is from the trust fund to the commissioner of natural resources for the Minnesota biological survey to complete the statewide field surveys begun in 1987 to provide a foundation for conserving biological diversity by systematically collecting, interpreting, and delivering data on native and rare species, pollinators, and native plant communities throughout Minnesota. Any revenues generated through the publication of books or other resources created through this appropriation may be reinvested as described in the work plan approved by the Legislative-Citizen Commission on Minnesota Resources according to Minnesota Statutes, section 116P.10.

Project due to be completed: 6/30/2022 Work Plan

Restoring Native Mussels in Streams and Lakes

Subd. 03b \$500,000 TF (FY2020)

Mike Davis

MN DNR

2109 North Lakeshore Drive

Lake City, MN 55041 Phone: (651) 314-6302

Email: mike.davis@state.mn.us

Appropriation Language

\$500,000 the first year is from the trust fund to the commissioner of natural resources to restore native freshwater mussel assemblages, and the ecosystem services they provide, in the Mississippi, Cedar, and Cannon Rivers and to inform the public on mussels and mussel conservation. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2021 Work Plan

Quantifying Exposure of Minnesota's Raptors to Mercury and PFAS

Research Project

Subd. 03c \$250,000 TF (FY2020)

Matthew Etterson

Hawk Ridge Bird Observatory 6770 Haugen Lane Duluth, MN 55803

Phone: (218) 590-7029 Email: metterso@d.umn.edu Web: https://www.hawkridge.org/

Appropriation Language

\$250,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Hawk Ridge Bird Observatory to quantify the exposure and health risk of two environmental neurotoxins to Minnesota raptors.

Project due to be completed: 6/30/2022 Work Plan

Minnesota Trumpeter Swan Migration Ecology and Conservation

Research Project

Subd. 03d \$300,000 TF (FY2020)

David E. Anderson

U.S. Geological Survey, Minnesota Cooperative Fish and Wildlife Research Unit and University of

200 Hodson Hall, 1980 Folwell Avenue

St. Paul, MN 55108 Phone: (612) 626-1222 Email: dea@umn.edu

Web: http://mncoopunit.cfans.umn.edu/

Appropriation Language

\$300,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to document the movement and habitat use of Minnesota trumpeter swans to provide foundational information necessary for trumpeter swan management and conservation. This appropriation is available until June 30, 2023, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2023 Work Plan

Spruce Grouse as Indicators for Boreal Forest Connectivity

Research Project

Subd. 03e \$350,000 TF (FY2020)

Julia Ponder

U of MN - Raptor Center 1920 Fitch Avenue St. Paul, MN 55108

Phone: (612) 624-3431 Email: <u>ponde003@umn.edu</u>

Web: https://www.raptor.umn.edu/

Appropriation Language

\$350,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota for the Raptor Center to evaluate how to best harvest timber in the boreal forest to enable wildlife with small home ranges, such as spruce grouse, to thrive in a changing landscape. This appropriation is available until June 30, 2023, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2023 Work Plan

Understanding Brainworm Transmission to Find Solutions for Minnesota Moose Decline

Research Project

Subd. 03f \$400,000 TF (FY2020)

Tiffany Wolf

U of MN

495 Animal Science/Veterinary Medicine, 1988 Fitch Ave.

St. Paul, MN 55108 Phone: (612) 625-0492 Email: wolfx305@umn.edu

Appropriation Language

\$400,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to identify key habitats and vectors of brainworm transmission between deer and moose that may be targeted by resource management to mitigate moose exposure to this deadly condition.

Project due to be completed: 6/30/2022 Work Plan

Mapping Habitat Use and Disease of Urban Carnivores

Research Project

Subd. 03g \$500,000 TF (FY2020)

Nicholas McCann

U of MN

B52 Skok Hall, 2003 Upper Buford Circle

St. Paul, MN 55108 Phone: (763) 286-2215 Email: mccan062@umn.edu

Appropriation Language

\$500,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to map habitat use and diseases of urban foxes and coyotes, evaluate risks these animals may pose to people and pets, and generate information needed to reduce human-wildlife conflicts.

Project due to be completed: 6/30/2022 Work Plan

Accelerated Aggregate Resource Mapping

Subd. 03h \$700,000 TF (FY2020)

Heather Arends

MN DNR

500 Lafayette Road Box 45

St. Paul, MN 55155 Phone: (651) 259-5376

Email: heather.arends@dnr.state.mn.us

Web: https://www.dnr.state.mn.us/lands minerals/aggregate maps/index.html

Appropriation Language

\$700,000 the first year is from the trust fund to the commissioner of natural resources to map the aggregate resource potential for four counties and make this information available in print and electronic format to local units of government for use in planning and zoning.

Project due to be completed: 6/30/2022 Work Plan

Den Boxes for Fishers and Other Nesting Wildlife

Research Project

Subd. 03i \$190,000 TF (FY2020)

Michael Joyce

U of MN - Duluth NRRI 5013 Miller Trunk Hwy Duluth, MN 55811

Phone: (218) 788-2656 Email: joyc0073@d.umn.edu

Appropriation Language

\$190,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota for the Natural Resources Research Institute in Duluth to build, install, and evaluate den boxes as habitat enhancement for fishers and other cavity-nesting wildlife in managed forests where a lack of large trees may be threatening population survival. The final outcome for the project must include guidelines and best practices for use of den boxes for fisher habitat.

Project due to be completed: 6/30/2022 Work Plan

Red-Headed Woodpeckers as Indicators of Oak Savanna Health

Research Project

Subd. 03j \$171,000 TF (FY2020)

David E. Andersen

U of MN

1980 Folwell Avenue, 200 Hodson Hall

St. Paul, MN 55108 Phone: (612) 626-1222 Email: dea@umn.edu

Web: http://mncoopunit.cfans.umn.edu/

Appropriation Language

\$171,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to evaluate red-headed woodpecker survival and habitat needs and to use this data to develop and disseminate a long-term oak savanna management plan that supports red-headed woodpeckers and other oak savanna habitat-dependent species.

Project due to be completed: 6/30/2022 Work Plan

Implementing Conservation Plans for Avian

Subd. 03k \$124,000 TF (FY2020)

Nathaniel Miller

Audubon Minnesota 1 Water St. #200 St. Paul, MN 55107 Phone: (651) 739-9332

Email: nmiller@audubon.org
Web: http://mn.audubon.org/

Appropriation Language

\$124,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the National Audubon Society, Minnesota office, to establish benchmark survey sites for implementing and tracking outcomes of collaborative restoration and enhancement activities within Important Bird Areas for three bird species of conservation concern.

Project due to be completed: 6/30/2022 Work Plan

Mapping Aquatic Habitats for Moose

Research Project

Subd. 03I \$199,000 TF (FY2020)

Joseph Bump

U of MN

FWCB 135 Skok Hall, Upper Buford Circle

St. Paul, MN 55108 Phone: (612) 624-2255 Email: bump@umn.edu

Web: https://fwcb.cfans.umn.edu/personnel/joseph-bump

Appropriation Language

\$199,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to determine key water habitats used by moose in northern forested regions of Minnesota, measure the effects of moose foraging on aquatic plant and fish diversity, and provide educational programming materials for the public.

Project due to be completed: 6/30/2022 Work Plan

Improving Statewide GIS Data by Restoring the Public Land Survey

Subd. 03m \$135,000 TF (FY2020)

Patrick Veraguth

Minnesota Association of County Surveyors 526 Willow Drive, PO Box 398 Alexandria, MN 56308

Phone: (320) 762-2964

Email: patv@co.douglas.mn.us
Web: http://macsinfo.org/

Appropriation Language

\$135,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Minnesota Association of County Surveyors to conduct a pilot project with Grant County to remonument and certify the public land survey corners in Lawrence Township. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2021 Work Plan

County Geologic Atlases - Part A, Mapping

Subd. 03n \$2,000,000 TF (FY2020)

Barbara Lusardi

U of MN - MN Geological Survey 2609 Territorial Road St. Paul, MN 55114 Phone: (612) 626-5119 Email: lusar001@umn.edu

Web: https://www.mngs.umn.edu/

Appropriation Language

\$2,000,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota, Minnesota Geological Survey, to continue producing county geologic atlases to inform management of surface water and groundwater resources. This appropriation is to complete Part A, which focuses on the properties and distribution of earth materials to define aquifer boundaries and the connection of aquifers to the land surface and surface water resources.

Project due to be completed: 6/30/2022 Work Plan

County Geologic Atlases - Part B, Mapping Aquifer Hydrology

Subd. 03o \$2,400,000 TF (FY2020)

Paul Putzier

MN DNR

Box 25, 500 Lafayette Rd N.

St. Paul, MN 55155 Phone: (651) 259-5692

Email: paul.putzier@state.mn.us

Web: http://www.dnr.state.mn.us/waters/groundwater_section/mapping

Appropriation Language

\$2,400,000 the first year is from the trust fund to the commissioner of natural resources to continue producing county geologic atlases to inform management of surface water and groundwater resources for drinking water and other purposes. This appropriation is for Part B, which uses the geologic formations mapped in Part A of the county geologic atlases to characterize the potential water yields of aquifers and the aquifers' sensitivity to contamination.

Project due to be completed: 6/30/2022 Work Plan

Unlocking Science of Minnesota's Moose Decline

Subd. 03p \$199,000 TF (FY2020)

Nicole Mattson

Minnesota Zoological Garden 13000 Zoo Blvd.

Apple Valley, MN 55124 Phone: (952) 431-9540

Email: nicole.mattson@state.mn.us

Web: http://mnzoo.org/

Appropriation Language

\$199,000 the first year is from the trust fund to the Minnesota Zoological Garden to develop educational displays, interactive exhibits, and engaging online programs that summarize and share scientific findings

about moose decline in Minnesota. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2021 Work Plan

Forest and Bioeconomy Research

Subd. 03q \$2,200,000 TF (FY2020)

Rolf Weberg

U of MN - Duluth NRRI 1049 University Dr. **Duluth, MN 55812** Phone: (218) 788-2697

Email: rtweberg@d.umn.edu

Web: https://www.d.umn.edu/

Appropriation Language

\$2,200,000 the first year is to the Board of Regents of the University of Minnesota for academic and applied research through MnDRIVE at the Natural Resources Research Institute to develop and demonstrate technologies that enhance the long-term health of Minnesota's forests, extend the viability of current forest-based industries, and accelerate emerging industry opportunities. Of this amount, \$500,000 is to support development of a forest optimization tool for Minnesota forest resources, \$800,000 is for maintenance and expansion of the Natural Resource Atlas to statewide coverage, \$400,000 is to the Minnesota Forest Resource Council for continued advancement of biochar development and application to forest health, and \$500,000 is to advance emerging Minnesota technologies to produce clean syngas to drive high-value markets for forest biomass feedstocks.

Project due to be completed: 6/30/2022 Work Plan

Minerals and Water Research

Subd. 03r \$883,000 TF (FY2020)

Rolf Weberg

U of MN - Duluth NRRI 1049 University Dr. Duluth, MN 55812 Phone: (218) 788-2697

Email: rtweberg@d.umn.edu Web: https://www.d.umn.edu/

Appropriation Language

\$883,000 the first year is to the Board of Regents of the University of Minnesota for academic and applied research through MnDRIVE at the Natural Resources Research Institute to develop and demonstrate technologies that enhance long-term Minnesota mineral opportunities. Of this amount:

- (1) \$300,000 is to support continued applied research to advance new technologies to improve water quality;
- (2) \$275,000 is to initiate the characterization of western Mesabi iron resources and development of

next-generation Minnesota iron products;

- (3) \$158,000 is to develop emerging hydrometallurgy technology to support high-value mineral product development in Minnesota; and
- (4) \$150,000 is to support efforts of the Natural Resources Research Institute to accelerate demonstration of high-capacity, cost-effective energy storage using Minnesota's historical auxiliary mine lands.

This research must be conducted in consultation with the Minerals Coordinating Committee established under Minnesota Statutes, section 93.0015.

Project due to be completed: 6/30/2022 Work Plan

Native Bee Survey

Subd. 03s \$600,000 TF (FY2020)

Jessica Peterson

MN DNR

500 Lafayette Road, Box 25

St. Paul, MN 55155 Phone: (651) 259-5130

Email: jessica.d.petersen@state.mn.us

Web: https://www.dnr.state.mn.us/pollinators/index.html

Appropriation Language

\$600,000 the first year is from the trust fund to the commissioner of natural resources to continue to assess the current status and distribution of native bee pollinators in Minnesota by expanding surveys into the coniferous-deciduous forest region of Minnesota and facilitating interagency collaboration and public outreach on pollinators.

Project due to be completed: 6/30/2022 Work Plan

Diagnostic Test for Chronic Wasting Disease

Subd. 03t \$1,804,000 TF (FY2019)

Peter Larsen

MN DNR

300B Veterinary Science Building 1971 Commonwealth Avenue

St. Paul, MN 55108 Phone: (612) 626-1694 Email: plarsen@umn.edu

Web: https://www.vetmed.umn.edu/bio/veterinary-and-biomedical-scie/peter-larsen

Appropriation Language

\$1,804,000 in fiscal year 2019 is from the trust fund to the Board of Regents of the University of Minnesota to develop diagnostic testing for chronic wasting disease that can be used to perform animal testing and environmental monitoring. This appropriation is subject to Minnesota Statutes, section 116P.10.

Project due to be completed: 6/30/2022 Work Plan

Subd. 04 Water Resources

Determining Influence of Insecticides on Algal Blooms

Research Project

Subd. 04a \$350,000 TF (FY2018)

William Arnold

U of MN

500 Pillsbury Dr. SE Minneapolis, MN 55455 Phone: (625) 625-8582

Email: arnol032@umn.edu
Web: https://williamarnold.org/

Appropriation Language

\$350,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to quantify the occurrence of neonicotinoid insecticides in Minnesota's surface waters and groundwaters and assess if the insecticides are contributing to the formation of algal blooms.

Project due to be completed: 6/30/2022 Work Plan

Benign Design: Environmental Studies Leading to Sustainable Pharmaceuticals

Subd. 04b \$415,000 TF (FY2018)

William Arnold

U of MN

500 Pillsbury Dr. SE Minneapolis, MN 55455 Phone: (625) 625-8582 Email: arnol032@umn.edu

Web: https://williamarnold.org/

Appropriation Language

\$415,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to determine how to best remove harmful fluorinated pharmaceuticals during wastewater treatment and to develop alternate versions of these compounds that are medically useful but environmentally harmless. This appropriation is subject to Minnesota Statutes, section 116P.10.

Project due to be completed: 6/30/2022 Work Plan

Wastewater Nutrient Reduction through Industrial Source Reduction Assistance

Subd. 04c \$200,000 TF (FY2018)

Laura Babcock

U of MN

200 Oak St. SE, Suite 350-1 Minneapolis, MN 55455 Phone: (612) 624-4678

Email: lbabcock@umn.edu
Web: http://www.mntap.umn.edu/

Appropriation Language

\$200,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to provide technical assistance for industrial facilities to optimize their processes, reduce nutrient loads to wastewater treatment facilities, and improve water quality. The economic savings and water quality improvements achieved through this work must be documented.

Project due to be completed: 6/30/2022 Work Plan

Quantifying Microplastics in Minnesota's Inland Lakes

Research Project

Subd. 04d \$200,000 TF (FY2018)

Kathryn Schreiner

U of MN - Duluth 2205 E 5th St Duluth, MN 55812

Phone: (218) 726-8680 Email: kschrein@d.umn.edu

Appropriation Language

\$200,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota for the Natural Resources Research Institute in Duluth to quantify the amount, type, and source of microplastics in the water, sediment, and fishes of a range of Minnesota lakes.

Project due to be completed: 6/30/2022 Work Plan

Improving Nitrogen Removal in Greater Minnesota Wastewater Treatment Ponds

Research Project

Subd. 04e \$325,000 TF (FY2018)

Paige Novak

U of MN

122 Civil Engineering Building, 500 Pillsbury Drive SE

Minneapolis, MN 55455 Phone: (612) 626-9846 Email: novak010@umn.edu

Appropriation Language

\$325,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to assess cold weather nitrogen cycling and different aeration methods to improve the efficacy of Minnesota's underperforming wastewater treatment ponds.

Improving Drinking Water for Minnesotans through Pollution Prevention

Research Project

Subd. 04f \$345,000 TF (FY2018)

Raymond Hozalski

U of MN

500 Pillsbury Drive SE Minneapolis, MN 55455 Phone: (612) 626-9650 Email: hozalski@umn.edu

Web: http://www.cege.umn.edu/directory/faculty-directory/hozalski.html

Appropriation Language

\$345,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to reduce exposure of Minnesotans to a toxic, cancer-causing chemical by identifying key pollutant precursor sources in the upper Mississippi River watershed and assessing options to reduce the formation of this chemical during drinking water treatment.

Project due to be completed: 6/30/2022 Work Plan

Protecting Minnesota Waters by Removing Contaminants from Wastewater

Research Project

Subd. 04g \$250,000 TF (FY2018)

Matt Simcik

U of MN

MMC 807, 420 Delaware Street SE

Minneapolis, MN 55455 Phone: (612) 626-6269 Email: msimcik@umn.edu

Appropriation Language

\$250,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to develop methods for treatment plants to remove harmful polyfluoroalkyl substances and microplastics from wastewater before the wastewater is released to the environment. This appropriation is subject to Minnesota Statutes, section 116P.10.

Project due to be completed: 6/30/2022 Work Plan

Reducing Municipal Wastewater Mercury Pollution to Lake Superior

Research Project

Subd. 04h \$250,000 TF (FY2018)

Scott Kyser

Minnesota Pollution Control Agency 520 Lafayette Road St. Paul, MN 55155

Phone: (651) 757-2665

Email: scott.kyser@state.mn.us
Web: https://www.pca.state.mn.us/

Appropriation Language

\$250,000 the first year is from the trust fund to the commissioner of the Minnesota Pollution Control Agency to evaluate and summarize current technologies to help municipal wastewater plants in the Lake Superior basin save money and reduce mercury pollution to Lake Superior and other Minnesota waters.

Project due to be completed: 6/30/2022 Work Plan

Extracting Deicing Salt from Roadside Soils with Plants

Research Project

Subd. 04i \$360,000 TF (FY2018)

Bo Hu

U of MN

1390 Eckles Ave

St. Paul, MN 55108 Phone: (612) 625-4215

Email: bhu@umn.edu

Web: https://bbe.umn.edu/directory/faculty/bohu

Appropriation Language

\$360,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to collaborate with the Department of Transportation to evaluate potential native plants that can be grown on roadsides to adsorb and remove toxic salts accumulated from deicing roads and assess uses for the harvested material.

Project due to be completed: 6/30/2022 Work Plan

Transformation of Plastic Waste into Valued Resource

Research Project

Subd. 04j \$225,000 TF (FY2018)

Brett Barney

 $\mathsf{U} \mathsf{ of } \mathsf{MN}$

1390 Eckles Ave. St. Paul, MN 55108

Phone: (612) 626-8751

Email: bbarney@umn.edu

Web: http://barneybioproductslab.cfans.umn.edu/

Appropriation Language

\$225,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to develop technologies that use microbes to convert plastic waste into useful chemical compounds and fuels, lowering the likelihood that these materials end up in the environment. This appropriation is subject to Minnesota Statutes, section 116P.10.

Project due to be completed: 6/30/2022 Work Plan

Accelerating Perennial Crop Production to Prevent Nitrate Leaching

Subd. 04k \$440,000 TF (FY2018)

Dennis Fuchs

Stearns County Soil and Water Conservation District 110 Second Street S. Suite 128 Waite Park, MN 56387

Phone: (320) 345-6477

Email: dennis.fuchs@mn.nacdnet.net

Appropriation Language

\$440,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Stearns County Soil and Water Conservation District to reduce nitrate leaching on sandy soils of central Minnesota by developing water-efficient production methods, supply chains, and end-use markets for three perennial crops: Kernza, prairie species, and alfalfa. Net income from the sale of products or assets developed or acquired through this project may be reinvested as described in the work plan approved by the Legislative-Citizen Commission on Minnesota Resources according to Minnesota Statutes, section 116P.10.

Project due to be completed: 6/30/2022 Work Plan

Farm-Ready Cover Crops for Protecting Water Quality

Research Project

Subd. 04l \$741,000 TF (FY2018)

Keith Olander

Central Lakes College - Ag and Energy Ctr 1830 Airport Road Staples, MN 56479

Phone: (763) 257-2881 Email: kolander@clcmn.edu

Web: http://www.clcmn.edu/ag-energy-center/

Appropriation Language

\$741,000 the first year is from the trust fund to the Minnesota State Colleges and Universities System for Central Lakes College to demonstrate conservation benefits of using camelina and kura clover as continuous living cover with corn-soybean rotations and to develop secondary markets to increase farmer adoption of this practice for protecting water quality in vulnerable wellhead protection areas. This appropriation is subject to Minnesota Statutes, section 116P.10.

Setting Realistic Nitrate Reduction Goals in Southeast Minnesota

Research Project

Subd. 04m \$350,000 TF (FY2018)

John Nieber

U of MN

1390 Eckles Ave. St. Paul, MN 55108

Phone: (612) 625-6724 Email: nieber@umn.edu

Web: https://bbe.umn.edu/directory/faculty/johnnieber

Appropriation Language

\$350,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to develop advanced water-flow and age-dating tools to improve the ability of state agencies to assess how well nitrate reduction best management practices are working in southeastern Minnesota.

Project due to be completed: 6/30/2022 Work Plan

Mapping Unprofitable Cropland for Water and Wildlife

Research Project

Subd. 04n \$100,000 TF (FY2018)

Jason Ulrich

Science Museum of Minnesota - St. Croix Research Station 16910 152nd St N

10510 152110 5014

Marine on St Croix, MN 55047 Phone: (651) 433-5953

Email: julrich@smm.org

Web: https://www.smm.org/scwrs

Appropriation Language

\$100,000 the first year is from the trust fund to the Science Museum of Minnesota for the St. Croix Watershed Research Station to conduct the first statewide analysis that maps the extent of Minnesota's unprofitable cropland and estimates both the water-quality and habitat benefits of converting these lands to perennial crops and vegetation. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2021 Work Plan

Evaluating Locally Sourced Materials for Road Salt Reduction

Research Project

Subd. 04o \$162,000 TF (FY2018)

Chanlan Chun

U of MN - Duluth NRRI 5013 Miller Trunk Hwy Duluth, MN 55811 Phone: (218) 788-2613

Email: chun0157@d.umn.edu

Web: https://scse.d.umn.edu/about/departments-and-programs/civil-engineering-department

Appropriation Language

\$162,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota for the Natural Resources Research Institute in Duluth to evaluate the effectiveness and benefits of using locally sourced wood chips, corncobs, and iron-bearing minerals as alternative abrasive materials to lower salt use for protecting Minnesota's water resources. This appropriation is subject to Minnesota Statutes, section 116P.10. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2021 Work Plan

Minnesota Spring Inventory Final Phase

Subd. 04p \$71,000 TF (FY2018)

Paul Putzier

MN DNR

Box 25, 500 Lafayette Rd N.

St. Paul, MN 55155 Phone: (651) 259-5692

Email: paul.putzier@state.mn.us

Web: https://www.dnr.state.mn.us/waters/groundwater_section/mapping/springs.html

Appropriation Language

\$71,000 the first year is from the trust fund to the commissioner of natural resources to complete the Minnesota Spring Inventory that identifies, catalogs, and assists resource managers in monitoring, assessing, and protecting important and threatened statewide water springs. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2021 Work Plan

Restoring Impaired Lakes through Citizen-Aided Carp Management

Subd. 04q \$106,000 TF (FY2018)

Andrew Dickhart

Carver County Water Management Organization

600 E. 4th Street Chaska, MN, 55318 Phone: (952) 361-1871

Email: adickhart@co.carver.mn.us

Web: https://www.co.carver.mn.us/departments/public-services/planning-water-management/water-

management

Appropriation Language

\$106,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Carver County Water Management Organization to quantify water quality improvements and the cost-effectiveness of a new citizen-aided carp management method for restoring impaired lakes in Minnesota.

Project due to be completed: 6/30/2022 Work Plan

Spring Biological Nitrate Removal to Protect Drinking Water

Subd. 04r \$175,000 TF (FY2018)

Troy Nemmers

City of Fairmont 100 Downtown Plaza Fairmont, MN 56031 Phone: (507) 238-9461

Email: tnemmers@fairmont.org

Appropriation Language

\$175,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the city of Fairmont to build and demonstrate the effectiveness of an experimental passive biological treatment system to reduce nitrates that enter the city's springtime water supply source.

Project due to be completed: 6/30/2022 Work Plan

Degrading Chlorinated Industrial Contaminants with Bacteria

Subd. 04s \$150,000 TF (\$149,000 FY2016 reallocation / \$1,000 FY2020)

Paige Novak

U of MN

122 Civil Engineering Building, 500 Pillsbury Drive SE

Minneapolis, MN 55455 Phone: (612) 626-9846 Email: novak010@umn.edu

Appropriation Language

\$1,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to determine the best way to stimulate bacteria to more quickly and completely remove industrial chlorinated pollutants from contaminated sites. On the day following final enactment, the following amounts from unobligated appropriations to the Board of Regents of the University of Minnesota are transferred and added to this appropriation: \$75,000 in Laws 2016, chapter 186, section 2, subdivision 4, paragraph (I), and \$74,000 in Laws 2016, chapter 186, section 2, subdivision 6, paragraph (b).

Project due to be completed: 6/30/2022 Work Plan

Managed Aquifer Recharge

Subd. 04t \$150,000 TF (FY2020)

John Bilotta

U of MN - Water Resources Center 173 McNeal Hall 1985 Buford Avenue St. Paul, MN 55108

Phone: (612) 624-7708 Email: <u>bilot002@umn.edu</u>

Web: https://www.wrc.umn.edu/

Appropriation Language

\$350,000 the first year is to the Board of Regents of the University of Minnesota, Water Resources Center, for a comprehensive study of the economic benefits of managed aquifer recharge and to make recommendations to enhance and replenish Minnesota's groundwater resources. The study must include, but is not limited to:

- (1) examining the potential benefits of enhancing groundwater recharge in water-stressed areas;
- (2) assessing the relationship to changing seasonality and intensity of precipitation on groundwater recharge rates;
- (3) reviewing the approaches to manage recharge in geologically appropriate areas;
- (4) identifying policy options, costs, and barriers to recharging groundwater; and
- (5) assessing the economic returns of options for groundwater recharge.

In conducting the study, the Water Resources Center must convene a stakeholder group and provide for public participation.

Project due to be completed: 6/30/2022 Work Plan

Subd. 05 Environmental Education

Expanding Camp Sunrise Environmental Program

Subd. 05a \$237,000 TF (FY2020)

Lori Arnold

YouthCARE MN 2701 University Ave SE, Suite 205 Minneapolis, MN 55414

Phone: (612) 338-1233

Email: larnold@youthcaremn.org
Web: http://www.youthcaremn.org/

Appropriation Language

\$237,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with YouthCare Minnesota to expand camp opportunities to more school districts and implement improved hands-on environmental education programs for economically disadvantaged youth.

Project due to be completed: 6/30/2022 Work Plan

Connecting Students to Boundary Waters

Subd. 05b \$450,000 TF (FY2020)

Chris Knopf

Friends of the Boundary Waters Wilderness 401 N Third St, Suite 290 Minneapolis, MN 55401

Phone: (612) 332-9630

Email: chris@friends-bwca.org
Web: https://www.friends-bwca.org/

Appropriation Language

\$450,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with Friends of the Boundary Waters Wilderness to connect approximately 6,500 students to the boundary waters through classroom education and wilderness canoe experiences for diverse and underserved populations across Minnesota. This appropriation is available until June 30, 2023, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2023 Work Plan

Mississippi National River and Recreation Area Forest Restoration

Subd. 05c \$199,000 TF (FY2020)

Mary Hammes

Mississippi Park Connection 111 Kellogg Blvd E, Suite 105 St. Paul, MN 55101

Phone: (651) 291-9119

Email: mhammes@parkconnection.org Web: https://parkconnection.org/

Appropriation Language

\$199,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Mississippi Park Connection to work with Conservation Corps Minnesota, local communities, and volunteers to address the loss of ash trees to emerald ash borer by planting approximately 15,000 native trees and plants in affected areas in the Mississippi National River and Recreation Area.

Project due to be completed: 6/30/2022 Work Plan

Increasing Diversity in Environmental Careers

Subd. 05d \$250,000 TF (FY2020)

Mimi Daniel

MN DNR 500 Lafayette Rd St. Paul, MN 55155 Phone: (651) 259-5308

Email: mimi.daniel@state.mn.us

Web: http://www.dnr.state.mn.us/index.html

Appropriation Language

\$250,000 the first year is from the trust fund to the commissioner of natural resources in cooperation with Conservation Corps Minnesota and Iowa to encourage a diversity of students to pursue careers in environment and natural resources through internships and mentorships with the Department of Natural Resources, the Board of Water and Soil Resources, and the Pollution Control Agency. This appropriation is available until June 30, 2024, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2024 Work Plan

Subd. 06 Aquatic and Terrestrial Invasive Species

Building Knowledge and Capacity to Solve AIS Problems

Subd. 06a \$4,000,000 TF (FY2020)

Nicholas Phelps

U of MN – MAISRC 135 Skok Hall 2003 Upper Buford Circle St. Paul, MN 55108

Phone: (612) 624-7450 Email: <u>phelp083@umn.edu</u>

Web: https://www.maisrc.umn.edu/

Appropriation Language

\$4,000,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to support the Minnesota Aquatic Invasive Species Research Center in developing solutions to Minnesota's aquatic invasive species problems through research, control, prevention, outreach, and early detection of existing and emerging aquatic invasive species threats. This appropriation is available until June 30, 2023, by which time the project must be completed and final products delivered.

Project due to be completed: 6/30/2023 Work Plan

Oak Wilt Suppression at its Northern Edge

Subd. 06b \$100,000 TF (FY2020)

Shannon Wettstein

Morrison Soil and Water Conservation District 16776 Heron Rd

Little Falls, MN 56345 Phone: (320) 631-3553

Email: shannon.wettstein@morrisonswcd.org
Web: http://morrisonswcd.org/about-us

Appropriation Language

\$100,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with Morrison Soil and Water Conservation District to eradicate the northern-most occurrences of oak

wilt in the state through mechanical means on select private properties to prevent oak wilt's spread to healthy state forest habitats.

Project due to be completed: 6/30/2022 Work Plan

Noxious Weed Detection and Eradication

Subd. 06c \$1,000,000 TF (FY2020)

Mark Abrahamson

Minnesota Department of Agriculture

625 Robert St N St. Paul, MN 55155 Phone: (651) 201-6505

Email: mark.abrahamson@state.mn.us

Web: https://www.mda.state.mn.us/plants-insects/noxious-and-invasive-weed-program

Appropriation Language

\$1,000,000 the first year is from the trust fund to the commissioner of agriculture to continue to monitor, detect, and eradicate noxious weeds, including Palmer Amaranth, primarily in conservation plantings and to develop and implement methods to prevent infestation and protect prairies, other natural areas, and agricultural crops. Of this amount, \$650,000 is for grants to local communities to help combat infestations.

Project due to be completed: 6/30/2022 Work Plan

Emerald Ash Borer Response Grants

Subd. 06d \$300,000 TF (FY2020)

Valerie McClannahan

MN DNR

500 Lafayette Rd St. Paul, MN 55155

Phone: (651) 259-5283

Email: valerie.mcclannahan@state.mn.us

Web: https://www.dnr.state.mn.us/grants/forestmgmt/managing-ash.html

Appropriation Language

\$300,000 the first year is from the trust fund to the commissioner of natural resources for grants to local units of government to replace ash trees removed from public lands in response to emerald ash borer with ecologically appropriate trees.

Project due to be completed: 6/30/2022 Work Plan

Subd. 07 Air Quality, Climate Change, and Renewable Energy

Development of Clean Energy Storage Systems for Farms

Research Project

Subd. 07a \$650,000 TF (FY2020)

William Northrop

U of MN – WCROC 111 Church Street Minneapolis, MN 55455

Phone: (612) 625 6854 Email: wnorthro@umn.edu

Appropriation Language

\$650,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota for the West Central Research and Outreach Center at Morris to develop and test novel clean energy storage systems for farms using wind-generated ammonia to displace fossil fuels and reduce greenhouse gas emissions. This appropriation is subject to Minnesota Statutes, section 116P.10.

Project due to be completed: 6/30/2022 Work Plan

White Earth Nation Community Solar for Economic Resilience

Subd. 07b \$500,000 TF (FY2020)

Vicki O'Day

Rural Renewable Energy Alliance 3963 8th Street SW Backus, MN 56435

Phone: (218) 947-3779 Email: Nicole@rreal.org

Web: https://www.rreal.org/cs4ca

Appropriation Language

\$500,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with Rural Renewable Energy Alliance to install a 200-kW White Earth community-owned solar garden to reduce greenhouse gas emissions, increase economic development through environmental education and solar workforce training, and improve energy resilience.

Project due to be completed: 6/30/2022 Work Plan

Sustainable Solar Energy from Agricultural Plant Byproducts

Research Project

Subd. 07c \$185,000 TF (FY2020)

Ted Pappenfus

U of MN – Morris 600 E 4th Street Morris, MN 56267

Phone: (320) 589-6340

Email: pappe001@morris.umn.edu

Web: http://cda.morris.umn.edu/~pappe001/

Appropriation Language

\$185,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota, Morris, to use regional plant-based agricultural by-products to fabricate solar cells for creating renewable and affordable energy.

Project due to be completed: 6/30/2022 Work Plan

Morris Energy and Environment Community Resilience Plan

Subd. 07d \$150,000 TF (FY2020)

Blaine Hill

City of Morris 610 Oregon Ave Morris, MN 56267 Phone: (320) 589-3141 Email: bhill@ci.morris.mn.us

Web: https://www.ci.morris.mn.us/

Appropriation Language

\$150,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the city of Morris to develop and begin implementing community resilience plans for energy and the environment and to create a model guide for other Minnesota communities to create and implement their own plans.

Project due to be completed: 6/30/2022 Work Plan

Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat

Saving Endangered Pollinators through Data-Driven Prairie Restoration

Research Project

Subd. 08a \$800,000 TF (FY2020)

Erik Runguist

Minnesota Zoological Garden 13000 Zoo Blvd

Apple Valley, MN 55124 Phone: (952) 431-9200

Email: erik.runquist@state.mn.us

Appropriation Language

\$800,000 the first year is from the trust fund. Of this amount, \$630,000 is to the Minnesota Zoological Garden and \$170,000 is to the commissioner of natural resources to reestablish populations of Minnesota's imperiled butterflies through reintroductions and prairie restorations and by developing foundational habitat recommendations for preventing future extinctions. This appropriation is available until June 30, 2023, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2023 Work Plan

Promoting and Restoring Oak Savanna Using Silvopasture

Subd. 08b \$750,000 TF (FY2020)

Rebecca Montgomery

U of MN 1530 Cleveland Ave N St. Paul, MN 55108 Phone: (612) 624-7249

Email: rebeccam@umn.edu

Appropriation Language

\$750,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to demonstrate, evaluate, and increase adoption of the combined use of intensive tree, forage, and livestock management as a method to restore threatened oak savanna habitats.

Project due to be completed: 06/30/2022 Work Plan

Sauk River Dam Removal and Rock Rapids Replacement

Subd. 08c \$2,768,000 TF (FY2020)

Colleen Winter

City of Melrose 225 First St NE Melrose, MN 56352 Phone: (320) 356-4278

Phone: (320) 256-4278

Email: cwinter@cityofmelrose.com
Web: https://www.cityofmelrose.com/

Appropriation Language

\$2,768,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the city of Melrose to remove an existing fixed-elevation dam, construct a rock arch rapids, and conduct in-stream and shoreline habitat restoration to improve water quality and native fish passage in the Sauk River. This project requires a match of at least \$1,400,000 that must be secured before trust fund money is spent. At least \$700,000 of this match must come from the city of Melrose. City of Melrose expenses for the Sauk River dam removal and rock rapids replacement incurred before July 1, 2019, may be counted toward the match.

Project due to be completed: 06/30/2022 Work Plan

Conserving and Monitoring of Minnesota's Rare Arctic Plants

Research Project

Subd. 08d \$135,000 TF (FY2020)

Briana Gross

U of MN – Duluth 207 SSB, 1035 Kirby Dr Duluth, MN, 55812 Phone: (218) 726-7722

Email: blgross@d.umn.edu

Web: https://scse.d.umn.edu/biology-department/faculty-staff/dr-briana-gross

Appropriation Language

\$135,000 the first year is from the trust fund to the Board of Regents of the University of Minnesota to provide monitoring and invasive species removal to conserve rare and endangered arctic plants on Minnesota's North Shore. This appropriation is available until June 30, 2023, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2023 Work Plan

Nongame Wildlife Program Acceleration

Subd. 08e \$513,000 TF (FY2020)

Kristin Hall

MN DNR

500 Lafayette Rd St. Paul, MN 55155

Phone: (651) 259-5444

Email: kristin.hall@state.mn.us Web: https://www.dnr.state.mn.us/

Appropriation Language

\$513,000 the first year is from the trust fund to the commissioner of natural resources to accelerate the nongame wildlife program, including rare wildlife data collection, habitat management, collaborative land protection, conservation education, and a new emphasis on promoting nature tourism to benefit wildlife, visitors, and rural communities.

Project due to be completed: 06/30/2022 Work Plan

Lawns to Legumes

Subd. 08f \$900,000 TF (\$806,000 FY2019 / \$94,000 FY2020)

Dan Shaw

BWSR

520 Lafayette Road

St Paul, MN 55155 Phone: (612) 236-6219

Email: dan.shaw@state.mn.us
Web: https://bwsr.state.mn.us/

Appropriation Language

\$806,000 in fiscal year 2019 and \$94,000 the first year are from the trust fund to the Board of Water and Soil Resources for demonstration projects that provide grants or payments to plant residential lawns with native vegetation and pollinator-friendly forbs and legumes to protect a diversity of pollinators. The board must establish criteria for grants or payments awarded under this section. Grants or payments awarded under this section may be made for up to 75 percent of the costs of the project, except that in areas identified by the United States Fish and Wildlife Service as areas where there is a high potential for

rusty patched bumble bees to be present, grants may be awarded for up to 90 percent of the costs of the project.

Project due to be completed: 06/30/2022 Work Plan

Agricultural Weed Control Using Autonomous Mowers

Subd. 08g \$900,000 TF (FY2020)

Eric Buchanan

U of MN - West Central Research and Outreach Center

46352 State HWY 329 Morris, MN 56267 Phone: (320) 589-1711

Email: <u>buch0123@morris.umn.edu</u>
Web: <u>https://wcroc.cfans.umn.edu/</u>

Appropriation Language

\$900,000 is from the trust fund to the Board of Regents of the University of Minnesota for the West Central Research and Outreach Center at Morris to design, integrate, and field-test new technology mowers to control weeds, reduce herbicide use, reduce energy costs, and improve native vegetation and forage quality on agricultural lands. This appropriation is subject to Minnesota Statutes, section 116P.10.

Project due to be completed: 06/30/2022 Work Plan

Subd. 09 Land Acquisition, Habitat and Recreation

Minnesota Scientific and Natural Areas

Subd. 09a \$3,500,000 TF (FY2020)

Molly Roske

MN DNR 500 Lafayette Rd

St. Paul, MN 55155 Phone: (651) 259-5094

Email: molly.roske@state.mn.us
Web: https://www.dnr.state.mn.us/

Appropriation Language

\$3,500,000 the first year is from the trust fund to the commissioner of natural resources for the scientific and natural areas (SNA) program to restore and enhance wildlife habitat on SNAs, increase public involvement and outreach, and strategically acquire high-quality lands that meet criteria for SNAs under Minnesota Statutes, section 86A.05, from willing sellers. A list of proposed acquisitions and restorations is required in the work plan.

Project due to be completed: 06/30/2022 Work Plan

Grants for Local Parks, Trails, and Natural Areas

Subd. 09b \$3,000,000 TF (FY2020)

Audrey Mularie

MN DNR 500 Lafayette Rd St. Paul, MN 55155

Phone: (651) 259-5549 Email: audrev.mularie@stat

Email: audrey.mularie@state.mn.us
Web: https://www.dnr.state.mn.us/

Appropriation Language

\$3,000,000 the first year is from the trust fund to the commissioner of natural resources to solicit, rank, and fund competitive matching grants for local parks, trail connections, and natural and scenic areas under Minnesota Statutes, section 85.019. The appropriation is for local nature-based recreation, connections to regional and state natural areas, and recreation facilities and not for athletic facilities such as sport fields, courts, and playgrounds.

Project due to be completed: 06/30/2022 Work Plan

Minnesota State Parks and State Trails In-Holdings

Subd. 09c \$2,000,000 TF (FY2020)

Shelby Kok

MN DNR 500 Lafayette Rd St. Paul, MN 55155 Phone: (651) 259-5590

Email: Shelby.Kok@state.mn.us
Web: https://www.dnr.state.mn.us/

Appropriation Language

\$2,000,000 the first year is from the trust fund to the commissioner of natural resources to acquire highpriority in-holdings from willing sellers within the legislatively authorized boundaries of state parks and trails to protect Minnesota's natural heritage, enhance outdoor recreational opportunities, and improve the efficiency of public land management. Priorities include but are not limited to Minneopa, St. Croix, Frontenac, and Crow Wing State Parks. A list of proposed acquisitions is required in the work plan.

Project due to be completed: 06/30/2022 Work Plan

Minnesota State Trails Development

Subd. 09d \$5,000,000 TF (FY2020)

Kent Skaar

MN DNR 500 Lafayette Rd St. Paul, MN 55155

Phone: (651) 259-5636

Email: kent.skaar@state.mn.us

Web: https://www.dnr.state.mn.us/

Appropriation Language

\$5,000,000 the first year is from the trust fund to the commissioner of natural resources to expand high-priority recreational opportunities on Minnesota's state trails by developing new trail segments and rehabilitating, improving, and enhancing existing state trails. High-priority trail bridges to rehabilitate or replace include, but are not limited to, those on the Arrowhead, Central Lakes, Harmony-Preston Valley, Matthew Lourey, and North Shore State Trails. High-priority trail segments to develop and enhance include, but are not limited to, the Paul Bunyan, Gateway, Heartland, Gitchi Gami, and Minnesota Valley State Trails. A proposed list of trail projects on legislatively authorized state trails is required in the work plan. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2021 Work Plan

National Loon Center

Subd. 09e \$4,000,000 TF (FY2020)

Leah Heggerston

National Loon Center Foundation 35770 Allen Ave Suite 1 PO Box 642 Crosslake, MN 56442

Phone: (218) 839-9042 Email: <u>fishes@crosslake.net</u>

Web: https://www.nationallooncenter.org/

Appropriation Language

\$4,000,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the National Loon Center Foundation, in partnership with a fiscal agent to be approved by the Legislative-Citizen Commission on Minnesota Resources, to construct an approximately 15,000square-foot National Loon Center in Cross Lake dedicated to loon survival, loon habitat protection and research, and recreation. Of this amount, up to \$1,449,000 is for planning, design, and construction of approximately six outdoor demonstration learning kiosks, interpretive trails, boardwalks and boat docks, a fishing dock, and native landscaping along approximately 3,100 feet of shoreline. Any remaining funds are for planning, engineering, and constructing the building and indoor exhibits. A land lease commitment of at least 25 years and fiscal sponsorship must be secured before any trust fund money is spent. This project requires a match of at least \$6,000,000. At least \$2,000,000 of this match must come from nonstate sources. If naming rights will be conveyed, the National Loon Center Foundation must include a plan for this in the work plan. All matching funds must be legally committed before any trust fund money may be spent on planning activities for or construction of the building and indoor exhibits. Net income generated from admissions, naming rights, and memberships to the National Loon Center as a result of trust fund contributions may be reinvested in the center's long-term loon conservation efforts as described in the work plan approved by the Legislative-Citizen Commission on Minnesota Resources according to Minnesota Statutes, section 116P.10.

Project due to be completed: 06/30/2022 Work Plan

Accessible Fishing Piers

Subd. 09f \$320,000 TF (FY2020)

Nancy Stewart

MN DNR 500 Lafayette Rd St. Paul, MN 55155

Phone: nancy.stewart@state.mn.us

Email: (651) 259-5616

Web: https://www.dnr.state.mn.us/

Appropriation Language

\$320,000 the first year is from the trust fund to the commissioner of natural resources to provide accessible fishing piers in locations that have a high potential to serve new angling communities, underserved populations, and anglers with physical disabilities. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2021 Work Plan

Mesabi Trail Extensions

Subd. 09g \$3,000,000 TF (FY2020)

Bob Manzoline

St. Louis & Lake Counties Regional Railroad Authority 111 Station 44 Rd

Eveleth, MN 55734 Phone: (218) 744-2653

Email: bmanzoline@rrauth.com
Web: https://www.mesabitrail.com/

Appropriation Language

\$3,000,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the St. Louis and Lake Counties Regional Railroad Authority for environmental assessment, permitting, right-of-way easements or other acquisition as needed, and engineering for and construction of four trail segments beginning and ending at the following approximate locations: Darwin Meyers Wildlife Management Area to County Road 21, Embarrass to Kugler, County Road 128 to the Eagles Nest Town Hall, and Wolf Creek to the Highway 169 underpass.

Project due to be completed: 06/30/2022 Work Plan

Birch Lake Recreation Area Campground

Subd. 09h \$350,000 TF (FY2020)

Cathy Bissonette

City of Babbitt 71 South Dr Babbitt, MN 55706 Phone: (218) 827-3646 Email: cathy@babbitt-mn.com

Appropriation Language

\$350,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the city of Babbitt to expand Birch Lake Recreation Area by adding a new campground for recreational vehicles and tent campers. This project requires a match of at least \$2,800,000 that must be secured before trust fund money is spent. At least \$800,000 of this match must come from the city of Babbitt. Net income generated from admissions to the campground created as a result of trust fund contributions may be reinvested into the campground's long-term operations as described in the work plan approved by the Legislative-Citizen Commission on Minnesota Resources according to Minnesota Statutes, section 116P.10.

Project due to be completed: 06/30/2022 Work Plan

Britton Peak to Lutsen Mountain Bike Trail

Subd. 09i \$350,000 TF (FY2020)

Tim Kennedy

Superior Cycling Association PO Box 1032

Grand Marais, MN 55604
Phone: (218) 370-0955
Email: tkennedy@boreal.org
Web: https://superiorcycling.org/

Appropriation Language

\$350,000 the first year are from the trust fund to the commissioner of natural resources for an agreement with the Superior Cycling Association to create a sustainably designed single-track mountain bike trail connecting trail clusters and trailheads between Britton Peak in Tofte and Lutsen Mountains as part of northeast Minnesota's effort to become a national recreation destination. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2021 Work Plan

Preserving the Avon Hills with Reverse-Bidding Easements

Subd. 09j \$1,600,000 TF (FY2020)

John Geissler

Saint John's University 104 New Science Building Collegeville, MN 56321-3000

Phone: (320) 363-3126

Email: jgeissler001@csbsju.edu

Web: https://www.csbsju.edu/outdooru

Appropriation Language

\$1,600,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with Saint John's University in cooperation with Minnesota Land Trust to restore and

enhance protected lands, provide public outreach, and prepare management plans for and use a reverse-bid ranking system to secure permanent conservation easements on high-quality natural habitat in the Avon Hills area of Stearns County. Of this amount, up to \$168,000 is for use by Minnesota Land Trust in a monitoring fund as approved in the work plan and subject to Minnesota Statutes, section 116P.20. An annual financial report is required for any monitoring, management, and enforcement fund, including expenditures from the fund. A proposed list of acquisitions and restorations must be provided in the work plan. This appropriation is available until June 30, 2024, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2024 Work Plan

Bailey Lake Trail and Fishing Pier

Subd. 09k \$550,000 TF (FY2020)

Britt See-Benes

City of Virginia 327 1st Street S Virginia MN 55792 Phone: (218) 748-7500

Email: britts@virginiamn.us
Web: http://www.virginiamn.us/

Appropriation Language

\$550,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the city of Virginia to reconstruct the existing Bailey Lake Trail and construct a new fishing pier on Bailey Lake that is accessible from the trail.

Project due to be completed: 06/30/2022 Work Plan

Vergas Long Lake Trail

Subd. 09I \$290,000 TF (FY2020)

Julie Lammers

City of Vergas PO Box 32

Vergas, MN 56587-0032 Phone: (218) 342-2091

Email: cityofvergas@arvig.net

Web: https://www.cityofvergas.com/

Appropriation Language

\$290,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the city of Vergas to construct a bicycle and pedestrian bridge, trail, and floating boardwalk along Long Lake including shoreline restoration and stabilization with native plants. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2021 Work Plan

Glacial Edge Trail and Downtown Pedestrian Bridge

Subd. 09m \$600,000 TF (FY2020)

Andrew Bremseth

City of Fergus Falls 112 Washington Avenue W Fergus Falls, MN 56537 Phone: (218) 332-5403

Email: <u>Andrew.Bremseth@ci.fergus-falls.mn.us</u>
Web: https://www.ci.fergus-falls.mn.us/

Appropriation Language

\$600,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the city of Fergus Falls to acquire easements for and construct a trail along the Otter Tail River in downtown Fergus Falls and a bicycle and pedestrian bridge crossing the river. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2021 Work Plan

Crane Lake to Vermilion Falls Trail

Subd. 09n \$400,000 TF (FY2020)

Bruce Beste

Voyageur Country ATV Box 414

Crane Lake, MN 55725 Phone: (218) 391-5108

Email: voyageurcountryatv.com
Web: www.VoyageurCountryATV.com

Appropriation Language

\$400,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with St. Louis County in cooperation with Voyageur Country ATV Club to designate and improve a wooded trail from Crane Lake to Vermilion Falls to accommodate all-terrain vehicle and snowmobile users. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2021 Work Plan

Restoring Five Sections of the Superior Hiking Trail

Subd. 090 \$191,000 TF (FY2020)

Lisa Luokkala

Superior Hiking Trail Association 731 7th Avenue, Suite 2 Two Harbors, MN 55616

Phone: (218) 834-2700

Email: <u>lluokkala@superiorhiking.org</u>

Web: https://superiorhiking.org/

Appropriation Language

\$191,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the Superior Hiking Trail Association to restore and repair the most damaged parts of five sections of the Superior Hiking Trail and restore an abandoned route to a natural footpath for hikers.

Project due to be completed: 06/30/2022 Work Plan

Rainy Lake Recreational Access and Boat Wash Station

Subd. 09p \$200,000 TF (FY2020)

Sherril Gautreaux

City of Ranier PO Box 186

Ranier, MN 56668 Phone: 218-286-3311

Email: cityofranier@frontiernet.net

Appropriation Language

\$200,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the city of Ranier to enhance and increase public access to Rainy Lake by constructing an Americans with Disabilities Act (ADA)-compliant recreational parking lot, an ADA-compliant public restroom, and an aquatic invasive species boat wash station.

Project due to be completed: 06/30/2022 Work Plan

Historic Bruce Mine Park and Mesabi Trailhead

Subd. 09q \$1,000,000 TF (FY2020)

Bob Manzoline

St. Louis & Lake Counties Regional Railroad Authority

111 Station 44 Rd Eveleth, MN 55734 Phone: (218) 744-2653

Email: bmanzoline@rrauth.com
Web: https://www.mesabitrail.com/

Appropriation Language

\$1,000,000 the first year is from the trust fund to the commissioner of natural resources for a grant to the St. Louis and Lake Counties Regional Railroad Authority to engineer, design, renovate, and construct the Historic Bruce Mine Park and Mesabi Trailhead and access in the city of Chisholm. This appropriation is available until June 30, 2023, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2023 Work Plan

Subd. 10 Administration and Contract Agreement Reimbursement

Contract Agreement Reimbursement

Subd. 10a \$135,000 TF (FY2020)

Katherine Sherman-Hoehn

MN DNR

500 Lafayette Road St. Paul, MN 55155-4010 Phone: (651) 259-5533

Email: Katherine.Sherman-Hoehn@state.mn.us

Web: https://www.dnr.state.mn.us/

Appropriation Language

\$135,000 the first year is from the trust fund to the commissioner of natural resources, at the direction of the Legislative-Citizen Commission on Minnesota Resources, for expenses incurred for preparing and administering contracts for the agreements specified in this section. The commissioner must provide documentation to the Legislative-Citizen Commission on Minnesota Resources on the expenditure of these funds. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

Project due to be completed: 06/30/2021 Work Plan

LCCMR Administration

Subd. 10b \$1,400,000 TF (FY2020)

Becca Nash

Legislative-Citizen Commission on Minnesota Resources

100 Rev. Dr. Martin Luther King Jr. Blvd.

Room 65 State Office Bldg

St. Paul, MN 55155 Phone: (651) 296-6264

Email: becca.nash@lccmr.leg.mn
Web: https://www.lccmr.leg.mn/

Appropriation Language

\$1,400,000 the first year is from the trust fund to the Legislative-Citizen Commission on Minnesota Resources for administration in fiscal years 2020 and 2021 as provided in Minnesota Statutes, section 116P.09, subdivision 5.

Project due to be completed: 06/30/2021

Legislative Coordinating Commission (LCC) Administration

Subd. 10c \$3,000 TF (FY2020)

Sally Olson

Legislative Coordinating Commission 100 Rev. Dr. Martin Luther King Jr. Blvd. Room 72 State Office Bldg St. Paul, MN 55155 Phone: (651) 296-9002

Email: Sally.Olson@lcc.leg.mn

Appropriation Language

\$3,000 the first year is from the trust fund to the Legislative Coordinating Commission for the website required in Minnesota Statutes, section 3.303, subdivision 10.

Project due to be completed: 06/30/2022

Grants Management System

Subd. 10d \$330,000 TF (FY2019)

Becca Nash

Legislative-Citizen Commission on Minnesota Resources

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Appropriation Language

\$330,000 in fiscal year 2019 is from the trust fund to the Legislative-Citizen Commission on Minnesota Resources to develop, enhance, and maintain a management system for project records.

Project due to be completed: 06/30/2021

Subd. 11 Wastewater Treatment Recommendations

Water Infrastructure Loans

Subd. 11a \$0 TF (FY2020)

Jeff Freeman

Public Facilities Authority 322 Minnesota Street, Suite W820

St. Paul, MN 55101-1378 Phone: (651) 259-7465

Email: jeff.freeman@state.mn.us
Web: https://mn.gov/deed/pfa/

Appropriation Language

Up to \$5,000,000 of the money in the trust fund is available to the State Board of Investment to invest in loans through the Public Facilities Authority's clean water revolving fund under Minnesota Statutes, section 446A.07. Notwithstanding Minnesota Statutes, section 446A.07, repayments of principal and interest and any investment income must be credited to the trust fund and are available for reinvestment in the clean water revolving fund.

Optimization Local Mechanical and Pond Wastewater-Treatment Plants

Subd. 11b \$500,000 TF (FY2020)

Joel Peck

Minnesota Pollution Control Agency 520 Lafayette Rd. N. St. Paul, MN, 55110

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Web: https://www.pca.state.mn.us/

Appropriation Language

\$500,000 the first year is from the trust fund to the commissioner of the Pollution Control Agency for the pilot program created under Laws 2018, chapter 214, article 4, section 2, subdivision 4, paragraph (a). This appropriation is available until June 30, 2021, by which time projects must be completed and final products delivered.

Project due to be completed: 06/30/2021 Work Plan