

# DRAFT 2024 ENRTF APPROPRIATION LANGUAGE

## ENVIRONMENT AND NATURAL RESOURCES TRUST FUND APPROPRIATIONS

### Section 1. APPROPRIATIONS

The sums shown in the columns marked "Appropriations" are appropriated to the agencies and for the purposes specified in this article. The appropriations are from the environment and natural resources trust fund and are available for the fiscal years indicated for each purpose. The figures "2024" and "2025" used in this article mean that the appropriations listed under them are available for the fiscal year ending June 30, 2024, or June 30, 2025, respectively. "The first year" is fiscal year 2024. "The second year" is fiscal year 2025. "The biennium" is fiscal years 2024 and 2025. Any unencumbered balance remaining in the first year does not cancel and is available for the second year or until the end of the appropriation. These are onetime appropriations.

<b>APPROPRIATIONS</b>	
<b>Available for the Year</b>	
<b>Ending June 30</b>	
<b>2024</b>	<b>2025</b>

### Sec. 2. MINNESOTA RESOURCES

Subd. 1. Total Appropriation	\$0	\$79,644,000
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This appropriation is from the environment and natural resources trust fund. The amounts that may be spent for each purpose are specified in the following subdivisions.

	<b>\$0</b>	<b>\$79,644,000</b>
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#### Subd. 2. Definition

"Trust fund" means the Minnesota environment and natural resources trust fund established under the Minnesota Constitution, article XI, section 14.

Subd. 3. Foundational Natural Resource Data and Information	\$0	\$14,993,000
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#### (a) Native Plant Community Data in the City of Duluth ( ID Number : 2024-014 MV

\$198,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Minnesota Land Trust to develop field-verified native plant community data and maps for the city of Duluth and the St. Louis River estuary to support conservation and restoration activities.

#### (b) Reconstructing Historical Wild Rice to Understand Its Future ( ID Number : 2024-036 NF

\$200,000 the second year is from the trust fund to the Science Museum of Minnesota for the St. Croix Watershed Research Station to characterize environmental drivers contributing to the decline of wild rice using lake sediment cores to reconstruct historical wild rice abundance in relation to lake and watershed stressors.

**(c) Characterizing Tree Cavities and Use by Minnesota's Wildlife ( ID Number : 2024-044 MC**

\$349,000 the second 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 assess the effects of forest management on Minnesota's primary cavity engineer, the Pileated Woodpecker, and on the wildlife that rely on the cavities Pileated Woodpeckers create. This appropriation is also to develop management guidelines.

**(d) Fate of Minnesota's Lakes in the Next Century ( ID Number : 2024-046 MC**

\$453,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to use new modeling techniques to quantify how water quality of Minnesota's lakes will change in the next century under future land use and climate change scenarios and to create an online webtool to display the results.

This appropriation is subject to Minnesota Statutes, section 116P.10.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(e) Turtle Island Skywatchers – Minnesota Research and Data Visualization ( ID Number : 2024-048 NF**

\$200,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Native Skywatchers Inc. to engage youth in environmental stewardship by collecting images and acoustic data from turtles and other culturally significant animals and their habitats, evaluating the differences in these soundscapes across landscapes, and sharing the results through scientific storytelling and online platforms.

**(f) Monitoring Minnesota's Insects: Connecting Habitat to Insect Prey ( ID Number : 2024-063 NF**

\$199,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to investigate the ecological roles of and energy transfer by certain Minnesota insects throughout their life cycles and to train future insect researchers on field techniques.

**(g) Determining Ambient Background PFAS Concentrations in Minnesota Soils ( ID Number : 2024-068 - MV**

\$621,000 the second year is from the trust fund to the commissioner of the Pollution Control Agency to determine ambient background per- and polyfluoroalkyl substance (PFAS) levels in urban and non-urban soils to help Minnesota develop management strategies for PFAS contaminated soils.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(h) Investigating Life History Characteristics of Minnesota Elk ( ID Number : 2024-071 mc**

\$933,000 the second year is from the trust fund to the commissioner of natural resources to assess herd health and genetic diversity, movements, survival, and causes of mortality of Minnesota elk and develop a non-invasive, safer, and more accurate method to estimate population size.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(i) Foundational Data for Moth and Butterfly Conservation ( ID Number : 2024-072 - nf**

\$195,000 the second year is from the trust fund to the commissioner of natural resources to perform field surveys and consolidate existing data to create the first comprehensive list of Minnesota moths and butterflies. This appropriation is also to conduct outreach to inform land managers and to facilitate public appreciation of these species.

**(j) DNR County Groundwater Atlas ( ID Number : 2024-078 - nf**

\$3,200,000 the second year is from the trust fund to the commissioner of natural resources to continue producing county groundwater atlases to inform management of surface water and groundwater resources for drinking and other purposes. This appropriation is for Part B, to characterize the potential water yields of aquifers and aquifers' sensitivity to contamination.

**(k) Voyageurs Wolf Project - Phase III ( ID Number : 2024-083 - nf**

\$996,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to continue to study summertime wolf predation on deer, moose, and other species in the Greater Voyageurs Ecosystem to inform wildlife management and to share natural history of this species with the public.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(l) Distribution and Population Status of Weasels in Minnesota ( ID Number : 2024-088 - mc**

\$400,000 the second 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 determine the distribution, relative abundance, and spatial occupancy patterns of small weasel species in Minnesota to fill key knowledge gaps in weasel distribution and status in Minnesota.

**(m) Improving Aquatic Plant Knowledge for Healthy Waters ( ID Number : 2024-150 - mc**

\$198,000 the second year is from the trust fund to the commissioner of natural resources to collect foundational data on Minnesota's native aquatic plant biodiversity through new and enhanced lake surveys and to disseminate results to state resource managers, scientists, and the public.

**(n) New Small Mammal Monitoring Methods for Minnesota ( ID Number : 2024-158 - mc**

\$199,000 the second 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 develop camera trapping methods as a new tool to collect foundational data and fill key knowledge gaps in the status of small mammal species in Minnesota.

**(o) Status of Bats and Roost Trees after White-Nose Syndrome ( ID Number : 2024-163 - mc**

\$195,000 the second 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 study changes in maternity roost trees and bat populations in the forested areas of Minnesota and evaluate the effects of years of white-nose syndrome on Minnesota bats.

**(p) Sublethal Effects of Pesticides on the Invertebrate Community ( ID Number : 2024-172 - mv**

\$387,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to provide data on pesticide contamination in soil and the insect community across the state and the effect of insecticide exposure on insect reproduction.

This appropriation is available until June 30, 2029, by which time the project must be completed and final products delivered.

**(q) Modernizing Minnesota's Plant Community Classification and Field Guides ( ID Number : 2024-186 - mc**

\$1,800,000 the second year is from the trust fund to the commissioner of natural resources to collect additional vegetation and environmental data and update the state's 20-year-old native plant community classification guides to

incorporate new data; streamline user application and access to products; and include analysis of climate and vegetation trends.

Net income generated as part of this appropriation may be reinvested in the project if a plan for reinvestment is approved in the work plan. This appropriation is subject to Minnesota Statutes, section 116P.10.

**(r) Assessing Prairie Health to Inform Pollinator Conservation** ( *ID Number : 2024-192 - mc*

\$297,000 the second year is from the trust fund to the Minnesota Zoological Society to assess habitat quality of and pesticide occurrence in Minnesota prairies to help inform management actions, endangered species recovery plans, and pollinator reintroduction efforts for endangered and threatened butterflies and other wildlife.

**(s) Understanding Native Fishes in the Bowfishing Era** ( *ID Number : 2024-193 - nf*

\$588,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota, Duluth, to collect foundational biological information on a selection of native Minnesota fish to aid in sustainable management, improve recreational opportunities, and educate the public about these shared aquatic resources.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(t) Preserving Minnesota Wildflower Information** ( *ID Number : 2024-206 - mv*

\$199,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota, Bell Museum of Natural History, to preserve and enhance Minnesota Wildflowers Information, an online tool for plant identification, by integrating the content and functionality of the website with the Minnesota Biodiversity Atlas for public use as required by M.L. 2017, Chp. 96, Sec. 2, Subd. 03e.

**(u) White-Tailed Deer Movement and Disease in Suburban Areas** ( *ID Number : 2024-215 - nf*

\$699,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to better understand white-tailed deer movement, habitat use, and disease dynamics at the suburban-agricultural interface to inform more efficient deer management and disease control.

**(v) Highly Pathogenic Avian Influenza and Minnesota Raptors** ( *ID Number : 2024-222 - mc*

\$187,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the Raptor Center to evaluate Minnesota raptors for current or past infections with highly pathogenic avian influenza virus to better understand disease transmission and outbreak impacts on raptor populations.

**(w) Geologic Atlases for Water Resource Management** ( *ID Number : 2024-223 - nf*

\$1,236,000 the second 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.

**(x) Remote Sensing for Pollinator Habitat** ( *ID Number : 2024-224 - nf*

\$180,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Monarch Joint Venture to use remote sensing technology to evaluate pollinator habitat on energy and transportation corridors across Minnesota and host field day training workshops.

**(y) Harnessing Cover Crops and Roots for Sustainable Cropping** ( ID Number : 2024-247 nf

\$375,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to determine carbon sequestration, nitrogen credit potential, water use, and performance of cover crops in corn-soybean and corn-soybean-wheat rotations in Southern Minnesota.

**(z) Effects of Conservation Grazing on Solar Pollinator Habitat** ( ID Number : 2024-251 - mc

\$88,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Minnesota Native Landscapes, in partnership with Temple University, to analyze the effects of sheep grazing and mowing on the vegetation and soils of solar sites managed for pollinator habitat and improve understanding of the environmental outcomes from the co-location of solar panels, grazing, and native, pollinator-friendly vegetation.

This appropriation is available until June 30, 2029, by which time the project must be completed and final products delivered.

**(aa) Genetic Detection of Endangered Mussels in the Mississippi** ( ID Number : 2024-278 - mv

\$241,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with United States Geological Survey, Ohio Water Microbiology Lab, to create, optimize, and use eDNA assays to detect the presence of endangered or threatened mussel species around Buffalo Slough near the Prairie Island Indian Community.

**(bb) Integrated Population Modeling for Trumpeter Swans** ( ID Number : 2024-296 - nf

\$180,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to compile and use all available data to model historical population abundance and estimate future population dynamics of Minnesota Trumpeter Swans.

Subd. 4. Water Resources

\$0 \$6,924,000

**(a) Hyperspectral Characterization of Toxic Harmful Algal Blooms** ( ID Number : 2024-037 mc

\$399,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota, St. Anthony Falls Laboratory, to investigate the use of hyperspectral microscopic imaging to detect harmful algal bloom (HAB) species and toxicity levels in Minnesota lakes that will support the development of HAB early warning remote sensing tools.

This appropriation is subject to Minnesota Statutes, section 116P.10.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(b) Characterization of Chemicals in Structural Fire Wastewater** ( ID Number : 2024-057 - nf

\$369,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to identify, analyze, and model the fate of chemicals present in wastewater from extinguished structural fires to better understand potential toxicity to humans and aquatic life.

**(c) Climate Change and Management Effects on Lake Methane** ( ID Number : 2024-061 - nf

\$540,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to collect monitoring data and create a model to measure the effects of increased temperature and precipitation on lake and

wetland water quality, habitat, and greenhouse gas emissions and evaluate lake management options under changing climate conditions.

**(d) Enhancing Wastewater Treatment through Genetic Sequencing** ( *ID Number : 2024-073 - mc* )

\$553,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to generate genome sequences for and assess the ability of bacteria growing in wastewater treatment bioreactors to improve phosphorus and nitrogen removal from wastewater in Minnesota and to produce novel pharmaceutical compounds.

This appropriation is subject to Minnesota Statutes, section 116P.10.

**(e) Improving Water Efficiency Programming with Measurable Outcomes** ( *ID Number : 2024-077 - mc* )

\$200,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Woodbury to accelerate the implementation of new and innovative water efficiency programs to conserve water and serve as a model for other communities.

**(f) Fluorine Beyond PFAS: Pesticide and Pharmaceutical Degradation** ( *ID Number : 2024-086 - mc* )

\$400,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to identify fluorinated pesticides and pharmaceuticals that degrade into potentially persistent or toxic byproducts, and analyze the microbes, processes, and conditions involved, to inform bioremediation and development of more sustainable chemistries.

**(g) Novel Nutrient Recovery Process from Wastewater Treatment Plants** ( *ID Number : 2024-161 - nf* )

\$486,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to continue to develop an integrated process to promote nutrient removal and recovery and renewable energy production at rural municipal and industrial wastewater treatment plants.

This appropriation is subject to Minnesota Statutes, section 116P.10.

**(h) Visitor Perceptions of Water Quality to Aid Lake Management** ( *ID Number : 2024-164 - mv* )

\$379,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota, Humphrey School of Public Affairs, to conduct an analysis of lake visitor perceptions, management actions, and water quality to inform lake management.

**(i) Wildfire Impacts on Mercury Cycling in Wilderness Lakes** ( *ID Number : 2024-173 - mc* )

\$297,000 the second 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 long-term effects of wildfires on lake water quality, mercury mobilization, and mercury bioaccumulation in fish and develop predictive tools that inform management and help protect the health of fisheries and manoomin in wilderness lakes.

**(j) Flood and Drought Modeling for Minnesota** ( *ID Number : 2024-213 - nf* )

\$499,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to compile new and existing data and develop a tool to provide cities and watershed districts with quantitative estimates of the effects of land use and climate change on floods and droughts.

**(k) Breaking the PFAS Cycle with a Full-Scale Demonstration** ( ID Number : 2024-257 - mc

\$1,481,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Barr Engineering Company, in partnership with the city of St. Cloud and the Minnesota Technical Assistance Program (MnTAP) at the University of Minnesota, to conduct a full-scale pilot to evaluate supercritical water oxidation of biosolids and drinking water treatment residuals to destroy per- and polyfluoroalkyl substances (PFAS) and recover energy in the water treatment process.

This appropriation is subject to Minnesota Statutes, section 116P.10.

**(l) Are Stream Restoration Efforts Effective? An Evidence-Based Assessment** ( ID Number : 2024-269 - mv

\$200,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Saint Mary's University of Minnesota to assess stream habitat improvement projects to improve trout populations and stream health in Minnesota's Driftless Area.

**(m) Uncovering the Past to Protect Minnesota's Walleye Fisheries** ( ID Number : 2024-279 - nf

\$1,121,000 the second year is from the trust fund to the Science Museum of Minnesota for the St. Croix Watershed Research Station to reconstruct historical lake conditions to identify factors linked to successful walleye fisheries and guide management in the face of warming temperatures, invasive species, and nutrient loading.

Subd. 5. Environmental Education \$0 \$11,262,000

**(a) Jay C. Hormel Nature Center Supplemental Teaching Staff** ( ID Number : 2024-015 - mv

\$410,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Austin to continue providing environmental education opportunities at the Jay C. Hormel Nature Center for learners from outside of the city of Austin.

**(b) Connecting Communities to Voyageurs Classroom & Minnesota's National Park** ( ID Number : 2024-017 - nf

\$994,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Voyageurs Conservancy to connect Minnesotans to the state's only national park through standards-aligned K-12 education, career-building fellowships, and enhanced programming that engages diverse audiences in the park's conservation.

**(c) Supporting Minnesota Teachers to Implement Culturally Sustaining Environmental Education** ( ID Number : 2024-023 - nf

\$295,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to provide workshops across Minnesota to train middle and high school teachers how to meet new state science standards by integrating western science and Indigenous perspectives in sustainability and water conservation education.

**(d) Phenology Investigations in Minnesota Schools** ( ID Number : 2024-027 - nf

\$392,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to provide professional development workshops in Greater Minnesota for teachers to use phenology curriculum and community science resources in environmental education.

**(e) Get the Lead Out: Lead-Free Fishing Tackle Education** ( *ID Number : 2024-028 - mv* )

\$254,000 the second year is from the trust fund to the commissioner of the Pollution Control Agency to protect common loons and wildlife through education and outreach about the dangers of lead fishing tackle and promoting lead-free tackle alternatives.

**(f) Water Science and Policy Fellowships for Minnesota** ( *ID Number : 2024-058 - mv* )

\$407,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the Minnesota Sea Grant College Program in Duluth to create a fellowship program to train Minnesota's workforce in water resource science and policy.

**(g) Mentoring Next Generation of Conservation Professionals - Phase 2** ( *ID Number : 2024-059 - mv* )

\$793,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Minnesota Valley National Wildlife Refuge Trust, Inc. to provide paid internships and apprenticeships for diverse young people to learn about careers in the conservation field from United States Fish and Wildlife Service professionals while working at the Minnesota Valley National Wildlife Refuge and Wetland Management District.

**(h) Restoring Land, Reviving Heritage: Indigenous Conservation - Phase 2** ( *ID Number : 2024-091 nf (mv also edited)* )

\$688,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Belwin Conservancy, in partnership with Anishinabe Academy and other urban indigenous- based schools and youth programs, to continue to conduct native-led environmental education programming that incorporates ecology and indigenous land traditions. This appropriation is also to restore and enhance habitat on permanently protected Belwin Conservancy lands using modern scientific standards and traditional ecological knowledge.

**(i) Unlocking Minnesota Wilderness for Youth** ( *ID Number : 2024-099 – nf (mv also edited)* )

\$705,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with YMCA of the North to engage underserved youth in hands-on environmental education by expanding Un-lock It!, a self-guided, interactive, and nature- based scavenger hunt, to open spaces and campuses across the state.

**(j) Outdoor Pathways to Environmental Education, Recreation, and Careers** ( *ID Number : 2024-100 – nf (mv also edited)* )

\$1,500,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Wilderness Inquiry to promote equity in access to outdoor activities, places, and careers by providing Minnesotans with a continuum of outdoor experiences from the backyard to the backcountry, implementing environmental education curriculum for youth, and delivering professional development workshops for educators.

**(k) Increasing Access to Environmental Education Youth Camps** ( *ID Number : 2024-111 - mc* )

\$163,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Osprey Wilds Environmental Learning Center to provide hands-on environmental education learning opportunities to underserved children through scholarships and transportation to Osprey Wilds' day-use and residential summer camps.

**(l) Launching Environmental Education at Shepard Farm** ( *ID Number : 2024-115 - mc* )

\$639,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Dodge Nature Center to build partnerships with South Washington County Schools and provide standards-aligned,



outdoor experiences and hands-on learning at Shepard Farm for Minnesota K-6 youth to increase their environmental skills and knowledge.

**(m) YES! Students Step Up To Reduce Carbon Footprint** ( *ID Number : 2024-129 - nf* )

\$199,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Prairie Woods Environmental Learning Center to empower Minnesota youth to reduce their carbon footprints through education from local experts and completion of student-driven and community-based team projects.

**(n) The Boundary Waters is Our Backyard** ( *ID Number : 2024-139 - bn* )

\$500,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Friends of the Boundary Waters Wilderness to connect students from Northeastern Minnesota to the Boundary Waters Canoe Area Wilderness through grade-wide day trips and overnight wilderness experiences.

**(o) Season Watch: Cultivating Young Naturalists with Phenology Education** ( *ID Number : 2024-168 - mc* )

\$180,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Northern Community Radio Inc. to continue to build the next generation of Minnesota conservationists by delivering engaging environmental programming to Northern Minnesota through radio and podcasts, hosting phenology training and interactive nature events for K-12 students, and expanding KAXE coverage of environmental topics to a digital audience.

**(p) Rural Minnesota Mobile Lab: Environment-Focused Earth Science Education** ( *ID Number : 2024-177 nf* )

\$459,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota, Crookston, to create a mobile lab and deliver innovative standards-based environmental education to students and educators at underserved, underrepresented schools and at community events in Northwest Minnesota.

**(q) Increasing Accessibility of Environmental Education at Deep Portage** ( *ID Number : 2024-188 nf* )

\$228,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Deep Portage Learning Center to enhance the accessibility of environmental education and outdoor recreation at Deep Portage Learning Center through projects that provide opportunities and support independence for physically disabled students visiting the campus.

**(r) College-School Collaboration to Promote Environmental Career Paths** ( *ID Number : 2024-200 - mc* )

\$174,000 the second year is from the trust fund to the Board to Trustees of the Minnesota State Colleges and Universities for Minnesota State University, Mankato, to build partnerships among natural resource professionals, colleges, and schools in southern Minnesota to expose youth to outdoor experiences, environmental issues, and natural resource career paths through internships, field trips, and environmental projects.

**(s) Water Quality and Robots: Experientially Educating Minnesotan Youth** ( *ID Number : 2024-250 mc* )

\$353,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to provide opportunities for middle school youth to develop skills for measuring water quality using robotic water quality sensing kits and communicating results through group study and hands-on projects.

**(t) Expanding Youth and Family Fishing Opportunities** ( ID Number : 2024-272 mc

\$1,162,000 the second year is from the trust fund to the commissioner of natural resources to expand fishing opportunities in urban areas, teach more kids and families how to fish, and inventory and inform the public about safe and legal shore fishing sites throughout Minnesota.

**(u) Youth Conservation Empowerment Project** ( ID Number : 2024-273 - nf

\$70,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota, Extension Center for Youth Development, to partner with Winona and Rochester alternative learning centers to connect, engage, and empower youth from underserved, culturally diverse and low-income communities in year-long activities focused on nature, outdoors skills, and environmental service-learning.

**(v) North Minneapolis Nature Connection: Storytelling and Leadership Pathways** ( ID Number : 2024-292 - mv

\$697,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with The Loppet Foundation to promote urban nature connections for North Minneapolis residents through storytelling, nature and environmental justice programs, and environmental leadership pathways for high schoolers and young adults.

Subd. 6. Aquatic and Terrestrial Invasive Species \$0 \$8,304,000

**(a) Minnesota Invasive Terrestrial Plants and Pests Center, Phase 7** ( ID Number : 2024-089 - mc

\$7,000,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to support the Minnesota Invasive Terrestrial Plants and Pests Center to fund high-priority research projects to better manage invasive plants, pathogens, and pests on Minnesota's natural and agricultural lands.

This appropriation is subject to Minnesota Statutes, section 116P.10.

This appropriation is available until June 30, 2030, by which time the project must be completed and final products delivered.

**(b) Mitigating the Spread of Invasive Jumping Worms** ( ID Number : 2024-097 - nf

\$470,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop integrated pest management strategies to mitigate the threat that invasive jumping worms pose to soil organic matter and seedlings in Minnesota forests.

**(c) Implementing Innovative Techniques to Manage Low-Density Invasive Carp** ( ID Number : 2024-114 - mc

\$634,000 the second year is from the trust fund to the commissioner of natural resources to implement new and innovative methods and enhance ongoing efforts to detect, monitor, and remove invasive carp and to evaluate watershed boundaries for potential breaches to avoid invasive carp establishment in Minnesota.

**(d) Early Detection of Invasive Viruses in Native Pollinators** ( ID Number : 2024-198 - mv

\$200,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to create a baseline inventory of the quantity and diversity of viruses in, and determine the threat of these viruses to, Minnesota native bees.

Subd. 7. Air Quality, Climate Change, and Renewable Energy \$0 \$4,833,000

**(a) Minimizing Minnesota’s Landfill Problem by Expanding Waste Diversion** ( ID Number : 2024-039 - mv

\$2,318,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Better Futures Minnesota to establish a statewide network for sourcing reclaimed building materials, create a tool for cities, counties, and businesses to report environmental impacts of waste diversion, and divert waste from landfills through collections, deconstructing buildings, and converting waste into finished goods.

Net income generated by Better Futures Minnesota as part of this appropriation may be reinvested in the project if a plan for reinvestment is approved in the work plan.

**(b) Building Resilient Urban Forests for Climate Change** ( ID Number : 2024-049 - mc

\$752,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Great River Greening to partner with municipalities and school districts to create gravel bed nurseries, conduct tree assessments and mapping, and plant climate-resilient tree species on public lands in St. Cloud, Mankato, and the Twin Cities region.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(c) Improving Agricultural Ecosystems through Autonomous Weed Control** ( ID Number : 2024-076 - mc

\$978,000 the second 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 green hydrogen- and solar powered- autonomous mowers to remove weeds in row crop fields and improve agricultural ecosystems through reduction of herbicide and fossil fuel use.

This appropriation is subject to Minnesota Statutes, section 116P.10.

**(d) Advanced Biofilter for N2O Removal** ( ID Number : 2024-098 - nf

\$325,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop innovative and low-cost biofilters to decrease the concentration of nitrous oxide (N2O) from various point sources.

**(e) Managing Future Floods and Droughts in Minnesota** ( ID Number : 2024-153 - nf

\$460,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to leverage new statewide climate data to assess future change in the duration, frequency, and magnitude of heavy precipitation and drought events and engage communities to prepare for these extremes.

Subd. 8. Methods to Protect or Restore Land, Water, and Habitat \$0      \$10,910,000

**(a) Long-Term Preservation of Minnesota’s Ball Cactus Population** ( ID Number : 2024-005 - mc

\$100,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the Minnesota Landscape Arboretum to protect Minnesota's only population of ball cactus by supporting population expansion and establishment, monitoring transferred plants, and training long-term volunteer monitors.

This appropriation is available until June 30, 2029, by which time the project must be completed and final products delivered.

**(b) Morrison County Historical Society Streambank Stabilization and Restoration** ( ID Number : 2024-022 - mv

\$519,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Morrison Soil and Water Conservation District to stabilize and restore land along the Mississippi River owned by the Morrison County Historical Society within the statutory boundaries of Charles A. Lindbergh State Park to improve water quality and improve aquatic and terrestrial habit.

For purposes of this appropriation, subdivision 13(e) does not apply. The commissioner of natural resources may make reasonable amounts of this appropriation available on an advance basis to accommodate Morrison Soil and Water Conservation District's cash-flow needs provided a plan for the advances is approved as part of the work plan.

**(c) Can Increased Tree Diversity Increase Community Diversity?** ( ID Number : 2024-045 -nf

\$415,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to evaluate impacts of increasing tree diversity on wildlife, plant and fungal communities, and carbon storage within aspen forests in northern Minnesota to develop best management practices for mixed woodland systems.

**(d) Restoration of Riverside Park** ( ID Number : 2024-090 - mv

\$141,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Long Prairie to improve water retention, increase native habitat, and enhance foot paths for recreation at Riverside Park in Todd County, Minnesota.

The project must create a net increase in habitat and this appropriation may not be used to meet the conditions of any permits received for the project.

**(e) Pollinator Central IV: Habitat Improvement with Public Engagement** ( ID Number : 2024-096 mc

\$698,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Great River Greening to partner with municipalities, educational organizations, and volunteers to create and enhance pollinator habitat along public corridors from Lakeville to St. Cloud and to engage youth and the public through education and monitoring the impact of habitat improvements.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(f) Conservation Grazing for Birds, Beef, and Better Soil** ( ID Number : 2024-103 mv

\$342,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the National Audubon Society, Minnesota office, to assess Audubon Conservation Ranching as a strategic approach to improve grassland biodiversity, soils, and ecosystem resilience.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(g) Minnesota Microbes for Enhanced Biodegradation of Microplastics** ( ID Number : 2024-108 - nf

\$524,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to investigate the potential of natural and indigenous microbes to biodegrade conventional plastics in contaminated soils and waters across the state.

This appropriation is subject to Minnesota Statutes, section 116P.10.

**(h) Completing the Mississippi River Greenway: Dakota County** ( ID Number : 2024-170 - mc

\$657,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Dakota County to restore and enhance habitat on public lands, establish linear native plantings, and install electric vehicle charging stations within and along the 27- mile Mississippi River Greenway in Dakota County.

Net income generated as part of this appropriation may be reinvested in the project if a plan for reinvestment is approved in the work plan. This appropriation is subject to Minnesota Statutes, section 116P.10.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(i) Enabling Nature to Destroy Environmental PFAS Contaminants** ( ID Number : 2024-175 - nf

\$378,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to identify enzymes and microbes that can break down soil- based per- and polyfluoroalkyl substances (PFAS) into non-toxic elements.

This appropriation is subject to Minnesota Statutes, section 116P.10.

**(j) Bioacoustics for Species Monitoring and Conservation Phase II** ( ID Number : 2024-185 - bn

\$568,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to assess avian diversity at the statewide scale by developing a citizen science bioacoustics monitoring program with an initial focus on private lands.

**(k) Preventing PFAS and Microplastics Contaminants Across Minnesota** ( ID Number : 2024-189 - nf

\$656,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to help stop the flow of per- and polyfluoroalkyl substances (PFAS) and microplastics contaminants into Minnesota's environment by developing strategies and technologies to manage solid waste streams on-site.

This appropriation is subject to Minnesota Statutes, section 116P.10.

**(l) Shingle Creek Aquatic and Shoreline Habitat Enhancement** ( ID Number : 2024-227 - mc

\$1,100,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Minneapolis Park and Recreation Board to plan and restore a section of Shingle Creek in north Minneapolis with native aquatic and shoreline vegetation, channel and bank modification, and natural stream features. This appropriation is also to monitor plant and animal health following construction to ensure the ecological functioning of the creek corridor is restored.

This appropriation is available until June 30, 2030, by which time the project must be completed and final products delivered.

**(m) LiDAR Technology to Help Prevent Wildlife Fatalities from Wind Turbines** ( ID Number : 2024-237 - mc

\$525,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to create a low-cost and advanced LiDAR system to detect bats and birds approaching wind turbines that may be used in concert with deterrence or impact avoidance methods to prevent collisions. This appropriation is subject to Minnesota Statutes, section 116P.10.

**(n) Road Salt Pollution of Surface Waters from Groundwater** ( ID Number : 2024-255 - mc

\$622,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to inform source- reduction efforts by developing a model to identify hot spots where road-salt contaminated groundwater leads to chloride pollution of surface waters.

**(o) Growing the Minnesota Bison Conservation Herd** ( ID Number : 2024-277 - mv

\$1,775,000 the second year is from the trust fund to the commissioner of natural resources to reintroduce bison to Camden State Park as part of a statewide effort to preserve the American Plains bison genome. Reintroduction includes the design, construction, and installation of fencing, a handling facility, signage and exhibits, and other site improvements.

This appropriation is available until June 30, 2030, by which time the project must be completed and final products delivered.

**(p) Priority Lakes: Meeting Protection Goals and Multiplying Benefits** ( ID Number : 2024-298 mc

\$1,890,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Hubbard County Soil and Water Conservation District, in cooperation with Minnesota Land Trust, to protect habitat, forest health, and water quality in the best fishing lakes by creating lake implementation action plans, conducting community-based habitat restorations and improvements, and protecting forest lands with conservation easements and SFIA enrollments within prioritized areas of the Upper Mississippi River Basin in Hubbard County. Of this amount, up to \$168,000 is for deposit in a monitoring fund to be used by Minnesota Land Trust as approved in the work plan and subject to Minnesota Statutes, section 116P.20

**Subd. 9. Land Acquisition, Habitat, and Recreation**

\$0 \$20,322,000

**(a) Minnesota Driftless Hiking Trail** ( ID Number : 2024-009 - mv

\$426,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Minnesota Driftless Hiking Trail to plan, design a route, secure access, develop community support for, and begin construction of a backpacking- focused trail across Southeast Minnesota's Driftless Area.

Construction of trails under this appropriation must occur on public or permanently protected lands or lands secured through long-term agreements as defined in the approved work plan.

A trail plan must be complete before funds are used for construction of trails.

Before this appropriation is spent, a fiscal agent for Minnesota Driftless Hiking Trail must be approved in the work plan.

**(b) Local Parks, Trails, and Natural Areas Grant Programs** ( ID Number : 2024-064 - mv

\$4,791,000 the second 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. This appropriation is for local nature-based recreation, connections to regional and state natural areas, and recreation facilities and may not be used for athletic facilities such as sport fields, courts, and playgrounds.

**(c) Acquisition of State Parks In-Holdings** ( ID Number : 2024-081 - mv

\$1,886,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the Parks & Trails Council of Minnesota to complete efficient, time-sensitive acquisitions of high priority state park

inholdings from willing sellers, deconstruct and reuse building materials, and convey properties to the state to protect and enhance Minnesota's environment and public recreation opportunities.

This appropriation may not be used to purchase habitable residential structures.

**(d) Scientific and Natural Area (SNA) Biodiversity Protection** ( *ID Number : 2024-092 - mv* )

\$957,000 the second year is from the trust fund to the commissioner of natural resources to strategically acquire high-quality lands that meet criteria for SNAs under Minnesota Statutes, section 86A.05, from willing sellers.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(e) Metropolitan Regional Parks System Land Acquisition- Phase 8** ( *ID Number : 2024-093 - mv* )

\$3,000,000 the second year is from the trust fund to the Metropolitan Council to acquire land within the approved boundaries of the metropolitan regional park system. This appropriation must be matched by an equal amount from a combination of Metropolitan Council and local agency funds.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(f) Zumbro River Regional Water Trail** ( *ID Number : 2024-094 - City of Oronoco - nf* )

\$170,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Oronoco to complete a master plan for the Zumbro River Regional Water Trail that considers existing amenities, connections from towns to natural features, and improved user experience. This appropriation may also be used to create a Joint Powers Board among the four counties and multiple jurisdictions connected to the Zumbro River to guide the master plan development.

**(g) Spring Lake Park Reserve Restoration and River Access** ( *ID Number : 2024-113 - mc* )

\$2,925,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Dakota County to create a non-motorized boat launch, complete a cultural resource management plan, construct hiking trails, and restore prairie, woodland, and savanna along the Mississippi River in Spring Lake Park Reserve.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(h) Minnesota State Trails Development** ( *ID Number : 2024-136 -mv* )

\$5,036,000 the second year is from the trust fund to the commissioner of natural resources to expand recreational opportunities on Minnesota state trails by rehabilitating and enhancing existing state trails and replacing or repairing existing state trail bridges. The high-priority trail bridges to be rehabilitated or replaced under this appropriation include, but are not limited to, those on the Arrowhead, Great River Ridge, C.J. Ramstad-Northshore, Harmony-Preston Valley, Shooting Star, and Minnesota Valley State Trails and the Pengilly-Alborn Railroad Trail. High-priority trail segments to develop and enhance include, but are not limited to, the Browns Creek, Gitche Gami, Minnesota Valley, Root River, and Cuyuna Lakes State Trails.

This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

**(i) Birch Lake Marina Design - ( ID Number : 2024-174 - mv**

\$197,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Babbitt to design a new marina at the Birch Lake Recreation Area in Babbitt, Minnesota.

**(j) Dent and Vergas Spur Trails ( ID Number : 2024-264 - mv**

\$934,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Otter Tail County to construct a trail along CSAH 35 to connect the cities of Dent and Vergas to the Heart of the Lakes Regional Trail and Maplewood State Park to provide recreation and non-motorized transportation opportunities.

Subd. 10. Administration, Emerging Issues, and Contract Agreement Reimbursement \$0 \$2,096,000

**(a) LCCMR Budget Supplement ( ID Number : 2024-001 - bn**

\$750,000 the second year is from the trust fund to the Legislative-Citizen Commission on Minnesota Resources for administration as provided in Minnesota Statutes, section 116P.09, subdivision 5. This appropriation is available until June 30, 2025. Notwithstanding Minnesota Statutes, section 116P.11, paragraph (b), Minnesota Statutes, section 16A.281, applies to this appropriation.

**(b) Emerging Issues 2024 ( ID Number : 2024-002 - bn**

\$1,071,000 the second year is from the trust fund to the Legislative-Citizen Commission on Minnesota Resources to an emerging issues account authorized in Minnesota Statutes, section 116P.08, subdivision 4, paragraph (d).

**(c) ML 2024 Contract Agreement Reimbursement ( ID Number : 2024-117 - bn**

\$275,000 the second 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 in preparing and administering contracts, including for the agreements specified in this section.

**Subd. 11. Availability of Appropriations**

Money appropriated in this section may not be spent on activities unless they are directly related to and necessary for a specific appropriation and are specified in the work plan approved by the Legislative-Citizen Commission on Minnesota Resources. Money appropriated in this section must not be spent on indirect costs or other institutional overhead charges that are not directly related to and necessary for a specific appropriation. Costs that are directly related to and necessary for an appropriation, including financial services, human resources, information services, rent, and utilities, are eligible only if the costs can be clearly justified and individually documented specific to the appropriation's purpose and would not be generated by the recipient but for receipt of the appropriation. No broad allocations for costs in either dollars or percentages are allowed. Unless otherwise provided, the amounts in this section are available for three years beginning July 1, 2024, and ending June 30, 2027, when projects must be completed and final products delivered. For acquisition of real property, the appropriations in this section are available for an additional fiscal year if a binding contract for acquisition of the real property is entered into before the expiration date of the appropriation. If a project receives a federal award, the period of the appropriation is extended to equal the federal award period to a maximum trust fund appropriation length of six years.



## Subd. 12. Data Availability Requirements

Data collected by the projects funded under this section must conform to guidelines and standards adopted by Minnesota IT Services. Spatial data must also conform to additional guidelines and standards designed to support data coordination and distribution that have been published by the Minnesota Geospatial Information Office. Descriptions of spatial data must be prepared as specified in the state's geographic metadata guideline and must be submitted to the Minnesota Geospatial Information Office. All data must be accessible and free to the public unless made private under the Data Practices Act, Minnesota Statutes, chapter 13. To the extent practicable, summary data and results of projects funded under this section should be readily accessible on the Internet and identified as having received funding from the environment and natural resources trust fund.

## Subd. 13. Project Requirements

(a) As a condition of accepting an appropriation under this section, an agency or entity receiving an appropriation or a party to an agreement from an appropriation must comply with paragraphs (b) to (m) and Minnesota Statutes, chapter 116P, and must submit a work plan and annual or semiannual progress reports in the form determined by the Legislative-Citizen Commission on Minnesota Resources for any project funded in whole or in part with funds from the appropriation. Modifications to the approved work plan and budget expenditures must be made through the amendment process established by the Legislative-Citizen Commission on Minnesota Resources.

(b) A recipient of money appropriated in this section that conducts a restoration using funds appropriated in this section must use native plant species according to the Board of Water and Soil Resources' native vegetation establishment and enhancement guidelines and include an appropriate diversity of native species selected to provide habitat for pollinators throughout the growing season as required under Minnesota Statutes, section 84.973.

(c) For all restorations conducted with money appropriated under this section, a recipient must prepare an ecological restoration and management plan that, to the degree practicable, is consistent with the highest-quality conservation and ecological goals for the restoration site. Consideration should be given to soil, geology, topography, and other relevant factors that would provide the best chance for long-term success and durability of the restoration project. The plan must include the proposed timetable for implementing the restoration, including site preparation, establishment of diverse plant species, maintenance, and additional enhancement to establish the restoration; identify long-term maintenance and management needs of the restoration and how the maintenance, management, and enhancement will be financed; and take advantage of the best-available science and include innovative techniques to achieve the best restoration.

(d) An entity receiving an appropriation in this section for restoration activities must provide an initial restoration evaluation at the completion of the appropriation and an evaluation three years after the completion of the expenditure. Restorations must be evaluated relative to the stated goals and standards in the restoration plan, current science, and, when applicable, the Board of Water and Soil Resources' native vegetation establishment and enhancement guidelines. The evaluation must determine whether the restorations are meeting planned goals, identify any problems with implementing the restorations, and, if necessary, give recommendations on improving restorations. The evaluation must be focused on improving future restorations.

(e) All restoration and enhancement projects funded with money appropriated in this section must be on land permanently protected by a conservation easement or public ownership.

(f) A recipient of money from an appropriation under this section must give consideration to contracting with Conservation Corps Minnesota for contract restoration and enhancement services.

(g) All conservation easements acquired with money appropriated under this section must:

(1) be permanent;

- (2) specify the parties to an easement in the easement;
- (3) specify all provisions of an agreement that are permanent;
- (4) be sent to the Legislative-Citizen Commission on Minnesota Resources in an electronic format at least ~~ten~~ twenty business days before closing;
- (5) include a long-term monitoring and enforcement plan and funding for monitoring and enforcing the easement agreement; and
- (6) include requirements in the easement document to protect the quantity and quality of groundwater and surface water through specific activities such as keeping water on the landscape, reducing nutrient and contaminant loading, and not permitting artificial hydrological modifications.

(h) For any acquisition of lands or interest in lands, a recipient of money appropriated under this section must not agree to pay more than 100 percent of the appraised value for a parcel of land using this money to complete the purchase, in part or in whole, except that up to ten percent above the appraised value may be allowed to complete the purchase, in part or in whole, using this money if permission is received in advance of the purchase from the Legislative-Citizen Commission on Minnesota Resources.

(i) For any acquisition of land or interest in land, a recipient of money appropriated under this section must give priority to high-quality natural resources or conservation lands that provide natural buffers to water resources.

(j) For new lands acquired with money appropriated under this section, a recipient must prepare an ecological restoration and management plan in compliance with paragraph (c), including sufficient funding for implementation unless the work plan addresses why a portion of the money is not necessary to achieve a high-quality restoration.

(k) To ensure public accountability for using public funds, a recipient of money appropriated under this section must, within 60 days of the transaction, provide to the Legislative-Citizen Commission on Minnesota Resources documentation of the selection process used to identify parcels acquired and provide documentation of all related transaction costs, including but not limited to appraisals, legal fees, recording fees, commissions, other similar costs, and donations. This information must be provided for all parties involved in the transaction. The recipient must also report to the Legislative-Citizen Commission on Minnesota Resources any difference between the acquisition amount paid to the seller and the state-certified or state-reviewed appraisal, if a state-certified or state-reviewed appraisal was conducted.

(l) A recipient of an appropriation from the trust fund under this section must acknowledge financial support from the environment and natural resources trust fund in project publications, signage, and other public communications and outreach related to work completed using the appropriation. Acknowledgment may occur, as appropriate, through use of the trust fund logo or inclusion of language attributing support from the trust fund. Each direct recipient of money appropriated in this section, as well as each recipient of a grant awarded pursuant to this section, must satisfy all reporting and other requirements incumbent upon constitutionally dedicated funding recipients as provided in Minnesota Statutes, section 3.303, subdivision 10, and chapter 116P.

(m) A recipient of an appropriation from the trust fund under this section that is receiving funding to conduct children's services, as defined in Minnesota Statutes, section 299C.61, subdivision 7, must certify to the Legislative-Citizen Commission on Minnesota Resources, as part of the required work plan, that criminal background checks for background check crimes, as defined in Minnesota Statutes, section 299C.61, subdivision 2, are performed on all employees, contractors, and volunteers that have or may have access to a child to whom the recipient provides children's services using the appropriation.

## Subd. 14. Payment Conditions and Capital Equipment Expenditures

(a) All agreements, grants, or contracts referred to in this section must be administered on a reimbursement basis unless otherwise provided in this section. Notwithstanding Minnesota Statutes, section 16A.41, expenditures made on or after July 1, 2024, or the date the work plan is approved, whichever is later, are eligible for reimbursement unless otherwise provided in this section. Periodic payments must be made upon receiving documentation that the deliverable items articulated in the approved work plan have been achieved, including partial achievements as evidenced by approved progress reports. Reasonable amounts may be advanced to projects to accommodate cash-flow needs or match federal money. The advances must be approved as part of the work plan. No expenditures for capital equipment are allowed unless expressly authorized in the project work plan.

(b) Single-source contracts as specified in the approved work plan are allowed.

## Subd. 15. Purchasing Recycled and Recyclable Materials

A political subdivision, public or private corporation, or other entity that receives an appropriation under this section must use the appropriation in compliance with Minnesota Statutes, section 16C.0725, regarding purchasing recycled, repairable, and durable materials, and Minnesota Statutes, section 16C.073, regarding purchasing and using paper stock and printing.

## Subd. 16. Energy Conservation and Sustainable Building Guidelines

A recipient to whom an appropriation is made under this section for a capital improvement project must ensure that the project complies with the applicable energy conservation and sustainable building guidelines and standards contained in law, including Minnesota Statutes, sections 16B.325, 216C.19, and 216C.20, and rules adopted under those sections. The recipient may use the energy planning, advocacy, and State Energy Office units of the Department of Commerce to obtain information and technical assistance on energy conservation and alternative-energy development relating to planning and constructing the capital improvement project.

## Subd. 17. Accessibility

Structural and nonstructural facilities must meet the design standards in the Americans with Disabilities Act (ADA) accessibility guidelines.

## Subd. 18. Carryforward; Extensions

(a) The availability of the appropriations for the following projects is extended to June 30, 2025:

1. Laws 2019, First Special Session chapter 4, article 2, section 2, subdivision 9, paragraph (e), The National Loon Center. The legislature does not plan to grant additional extensions for this appropriation.
2. Laws 2019, First Special Session chapter 4, article 2, section 2, subdivision 10, paragraph (d), Grants Management System. Notwithstanding Minnesota Statutes, section 116P.11, paragraph (b), Minnesota Statutes, section 16A.281, applies to this appropriation.
3. Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 3, paragraph (i), Bobcat and Fisher Habitat Use and Interactions
4. Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 3, paragraph (j), Healthy Prairies III: Restoring Minnesota's Prairie Plant Diversity
5. Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 3, paragraph (n), Tools for Supporting Healthy Ecosystems and Pollinators

6. Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 4, paragraph (b), Technology for Energy-Generating Onsite Industrial Wastewater Treatment
  7. Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 8, paragraph (k), Increase Golden Shiner Production to Protect Aquatic Communities
  8. Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 9, paragraph (r), Ranier Safe Harbor Transient Dock on Rainy Lake
  9. Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 9, paragraph (s), Crane Lake Voyageurs National Park Campground and Visitor Center
  10. Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 9, paragraph (t), Chippewa County Acquisition, Recreation and Education
  11. Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 10, Emerging Issues Account; Wastewater Renewable Energy Demonstration Grants
  12. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 3, paragraph (b), Protecting Minnesota's Beneficial Macroalgae: All Stoneworts Aren't Starry
  13. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 3, paragraph (c), County Groundwater Atlas
  14. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 3, paragraph (e), Minnesota Biological Survey
  15. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 3, paragraph (g), Geologic Atlases for Water Resource Management
  16. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 4, paragraph (d), Microgeographic Impact of Antibiotics Released from Identified Hotspots
  17. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 8, paragraph (a), Camp Ripley Sentinel Landscape Forest Restoration and Enhancements
  18. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 9, paragraph (e), Metropolitan Regional Parks System Land Acquisition- Phase VII
  19. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 9, paragraph (h), Native Prairie Stewardship and Prairie Bank Easement Acquisition
  20. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 9, paragraph (j), SNA Acquisition, Restoration, Citizen-Science and Outreach
  21. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 9, paragraph (n), Crane Lake Voyageurs National Park Visitor Center - Continuation
  22. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 9, paragraph (t), Highbanks Ravine Bat Hibernaculum Project
  23. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 9, paragraph (u), State Parks and State Trails Inholdings
- (b) The availability of the appropriation for Laws 2022, chapter 94, section 2, subdivision 10, paragraph (k), Developing Markets for Continuous Living Cover Crops is extended to June 30, 2026
- (c) The availability of the appropriations for the following projects is extended to June 30, 2027:
1. Laws 2021, First Special Session chapter 6, article 5, section 2, subdivision 9, paragraph (l), Upper St. Anthony Falls Enhancements. The legislature does not plan to grant additional extensions for this appropriation.
  2. Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 7, paragraph (b), Storing Renewable Energy in Flow Battery for Grid Use. The legislature does not plan to grant additional extensions for this appropriation.

**EFFECTIVE DATE.** Subdivision 18 is effective the day following final enactment

Sec. 3 Laws 2021, First Special Session chapter 6, article 6, section 2, subdivision 9, is amended to read:

(e) National Loon Center

\$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 15,000-square-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. The building may only be constructed on land restricted for use as a National Loon Center for at least 25 years following construction completion. Additionally, the trust fund procedures for title, environmental, archeological, and survey due diligence must be used for the acquisition of land on which the building will be constructed. 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. Notwithstanding any other effective date stated in law, M.S. 116P.15 Subdivision 3, M.S. 116P.16, and M.S. 116P.21 Subd. 1 apply to this appropriation.

(n) Crane Lake Voyageurs National Park Visitor Center - Continuation

\$2,700,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the city of Crane Lake to design and construct an approximate 4,500 to 7,000 square-foot visitor center building to serve as an access point to Voyageurs National Park. A fiscal agent or fiscal management plan must be approved in the work plan before any trust fund money is spent. A copy of a resolution or other documentation of the city's commitment to fund operations of the visitor center must be included in the work plan submitted to the Legislative-Citizen Commission on Minnesota Resources. Net income generated as part of this appropriation may be reinvested in the project if a plan for reinvestment is approved in the work plan.

Sec. 4 Laws 2022, chapter 94, section 2, subdivision 9, is amended to read:

**Subd. 9. Habitat and Recreation**

(j) Silver Bay Multimodal Trailhead Project

\$1,000,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Silver Bay to develop a multimodal trailhead center to provide safe access to the Superior, Gitchi-Gami, and C.J. Ramstad/North Shore trails; Black Beach Park; and other recreational destinations. Net income generated as part of this appropriation may be reinvested in the project if a plan for reinvestment is approved in the work plan.

(m) Floodwood Campground Improvement Project

\$816,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with the city of Floodwood to upgrade the Floodwood Campground and connecting trails to provide high-quality nature and recreation experience for people of all ages. Net income generated as part of this appropriation may be reinvested in the project if a plan for reinvestment is approved in the work plan.

Sec. 5 Laws 2022, chapter 94, section 2, subdivision 10, is amended to read:

**Subd. 10. Other Projects**

(k) Developing Markets for Continuous Living Cover Crops

\$500,000 the second year is from the trust fund to the commissioner of agriculture for grants to organizations in Minnesota to develop enterprises, supply chains, and markets for continuous living cover crops and cropping systems in the early stage of commercial development, including but not limited to regenerative poultry silvopasture systems, Kernza perennial grain, winter camelina, and elderberry. This appropriation is exempt from the income repayment requirements in 116P.10 paragraph c.

Sec. 6 Laws 2023, chapter 60, article 2, section 2, subdivision 9, is amended to read:

**Subd. 9. Land Acquisition, Habitat, and Recreation**

(l) Silver Bay Multimodal Trailhead Project

\$1,970,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with the city of Silver Bay to develop a multimodal trailhead center to provide safe access to the Superior Hiking, Gitchi-Gami Bike, and C.J. Ramstad/North Shore trails; Black Beach Park; and other recreational destinations. Before any construction costs are incurred, the city must demonstrate that all funding to complete the project are secured. Net income generated as part of this appropriation may be reinvested in the project if a plan for reinvestment is approved in the work plan.

**EFFECTIVE DATE.** Sections 3-6 are effective the day following final enactment.