A bill for an act

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1.2 1.3

1.2 1.3 1.4	relating to natural resources; appropria resources trust fund; correcting previous chapter 76, section 2, subdivision 9; La 8.	us appropriation	ns; amending Law	s 2015,	
1.6	BE IT ENACTED BY THE LEGISLATUR	RE OF THE ST	ATE OF MINNES	SOTA:	
1.7	Section 1. APPROPRIATIONS.				
8.1	The sums shown in the columns marked '	'Appropriations'	' are appropriated	to the agencies	
1.9	and for the purposes specified in this act. The	ne appropriation	ns are from the en	vironment and	
1.10	natural resources trust fund, or another nam	ned fund, and ar	e available for the	e fiscal years	
1.11	indicated for each purpose. The figures "20	18" and "2019"	used in this act n	nean that the	
1.12	appropriations listed under them are availal	ble for the fisca	l year ending June	e 30, 2018, or	
1.13	June 30, 2019, respectively. "The first year" is fiscal year 2018. "The second year" is fiscal				
1.14	year 2019. "The biennium" is fiscal years 2	018 and 2019.			
1.15 1.16 1.17 1.18			APPROPRIATI Available for the Ending June 2018	Year	
1.19	Sec. 2. MINNESOTA RESOURCES				
1.20	Subdivision 1. Total Appropriation	<u>\$</u>	<u>-0-</u> \$	45,389,000	
1.21	The amounts that may be spent for each				
1.22	purpose are specified in the following				
1.23	subdivisions. Appropriations are available f	<u>or</u>			
1.24	two years beginning July 1, 2018, unless				

	11/29/17	ATTORNEY	CKM	LCCMR
2.1	otherwise stated in the appropriation. An	<u>y</u>		
2.2	unencumbered balance remaining in the	<u>first</u>		
2.3	year does not cancel and is available for t	<u>the</u>		
2.4	second year or until the end of the			
2.5	appropriation.			
2.6	Subd. 2. Definition			
2.7	"Trust fund" means the Minnesota			
2.8	environment and natural resources trust f	und		
2.9	established under the Minnesota Constitut	ion,		
2.10	article XI, section 14.			
2.11 2.12	Subd. 3. Foundational Natural Resource and Information	ee Data	<u>-0-</u>	7,293,000
2.13	(a) County Geologic Atlases - Part A			
2.14	\$2,500,000 the second year is from the tr	<u>ust</u>		
2.15	fund to the Board of Regents of the Univer	sity		
2.16	of Minnesota, Minnesota Geological Sur	vey,		
2.17	to continue producing county geologic atl	ases		
2.18	for the purpose of informed management	of		
2.19	surface water and groundwater resources.	<u>Γhis</u>		
2.20	appropriation is to complete part A, which	<u>h</u>		
2.21	focuses on the properties and distribution	of		
2.22	earth materials to define aquifer boundar	es		
2.23	and the connection of aquifers to the land	<u> </u>		
2.24	surface and surface water resources. This			
2.25	appropriation is available until June 30, 20	022,		
2.26	by which time the project must be compl	eted		
2.27	and final products delivered.			
2.28	(b) County Geologic Atlases - Part B			
2.29	\$1,500,000 the second year is from the tr	<u>ust</u>		
2.30	fund to the commissioner of natural resou	rces		
2.31	to continue producing county geologic atl	ases		
2.32	for the purpose of informed management	<u>of</u>		
2.33	surface water and groundwater resources	for		
2.34	drinking water and other purposes. This			
2.35	appropriation is to complete part B, which	<u>h</u>		

11/29/17	ATTORNEY	CKM	LCCMR

3.1	uses the geologic formations mapped in part
3.2	A of the county geologic atlas project to
3.3	characterize the potential water yields of
3.4	aquifers and their sensitivity to contamination.
3.5	This appropriation is available until June 30,
3.6	2021, by which time the project must be
3.7	completed and final products delivered.
3.8 3.9	(c) Providing Critical Water-Quality Information for Lake Management
3.10	\$250,000 the second year is from the trust
3.11	fund to the Board of Regents of the University
3.12	of Minnesota to develop a semiautomated
3.13	system to acquire, process, and deliver new
3.14	satellite-derived water-quality data in near real
3.15	time on water clarity, algae, and turbidity for
3.16	Minnesota lakes. This appropriation is
3.17	available until June 30, 2021, by which time
3.18	the project must be completed and final
3.19	products delivered.
3.19 3.20	<u>products delivered.</u>(d) Minnesota Biodiversity Atlas - Phase 2
3.20	(d) Minnesota Biodiversity Atlas - Phase 2
3.20 3.21	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust
3.20 3.21 3.22	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University
3.20 3.21 3.22 3.23	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to expand the biodiversity atlas
3.20 3.21 3.22 3.23 3.24	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to expand the biodiversity atlas project by adding more than 800,000 records
3.20 3.21 3.22 3.23 3.24 3.25	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to expand the biodiversity atlas project by adding more than 800,000 records and images of Minnesota wildlife, plants, and
3.20 3.21 3.22 3.23 3.24 3.25 3.26	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to expand the biodiversity atlas project by adding more than 800,000 records and images of Minnesota wildlife, plants, and fungi, including observations from state
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to expand the biodiversity atlas project by adding more than 800,000 records and images of Minnesota wildlife, plants, and fungi, including observations from state agencies and other museum collections, to
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27 3.28	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to expand the biodiversity atlas project by adding more than 800,000 records and images of Minnesota wildlife, plants, and fungi, including observations from state agencies and other museum collections, to enhance research, guide field surveys, and
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27 3.28 3.29	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to expand the biodiversity atlas project by adding more than 800,000 records and images of Minnesota wildlife, plants, and fungi, including observations from state agencies and other museum collections, to enhance research, guide field surveys, and inform conservation planning. This
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27 3.28 3.29 3.30	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to expand the biodiversity atlas project by adding more than 800,000 records and images of Minnesota wildlife, plants, and fungi, including observations from state agencies and other museum collections, to enhance research, guide field surveys, and inform conservation planning. This appropriation is available until June 30, 2021,
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27 3.28 3.29 3.30 3.31	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to expand the biodiversity atlas project by adding more than 800,000 records and images of Minnesota wildlife, plants, and fungi, including observations from state agencies and other museum collections, to enhance research, guide field surveys, and inform conservation planning. This appropriation is available until June 30, 2021, by which time the project must be completed
3.20 3.21 3.22 3.23 3.24 3.25 3.26 3.27 3.28 3.29 3.30 3.31 3.32	(d) Minnesota Biodiversity Atlas - Phase 2 \$350,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to expand the biodiversity atlas project by adding more than 800,000 records and images of Minnesota wildlife, plants, and fungi, including observations from state agencies and other museum collections, to enhance research, guide field surveys, and inform conservation planning. This appropriation is available until June 30, 2021, by which time the project must be completed and final products delivered.

4.1	of Minnesota to identify management actions
4.2	to maximize benefits to wildlife, water quality,
4.3	timber production, and native plant
4.4	communities in peatland forests. This
4.5	appropriation is available until June 30, 2022,
4.6	by which time the project must be completed
4.7	and final products delivered.
4.8 4.9	(f) Assessing Natural Resource Benefits Provided by Lichens and Mosses
4.10	\$213,000 the second year is from the trust
4.11	fund to the Board of Regents of the University
4.12	of Minnesota to survey, map, and analyze
4.13	mosses and lichens across the state, including
4.14	their moisture-retention capacity, effects on
4.15	hydrology, and ability to filter airborne
4.16	pollutants. This appropriation is available until
4.17	June 30, 2021, by which time the project must
4.18	be completed and final products delivered.
4.19 4.20	(g) Develop a System to Assess Wildlife Health Threats in Minnesota
	8/ 1 (
4.20	Threats in Minnesota
4.20 4.21	Threats in Minnesota \$280,000 the second year is from the trust
4.204.214.22	Threats in Minnesota \$280,000 the second year is from the trust fund to the Board of Regents of the University
4.204.214.224.23	Threats in Minnesota \$280,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide
4.20 4.21 4.22 4.23 4.24	Threats in Minnesota \$280,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide information-management system that uses
4.20 4.21 4.22 4.23 4.24 4.25	Threats in Minnesota \$280,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide information-management system that uses wildlife-rehabilitation data to identify
4.20 4.21 4.22 4.23 4.24 4.25 4.26	\$280,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide information-management system that uses wildlife-rehabilitation data to identify emerging threats to wildlife health in
4.20 4.21 4.22 4.23 4.24 4.25 4.26 4.27 4.28	S280,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide information-management system that uses wildlife-rehabilitation data to identify emerging threats to wildlife health in Minnesota. (h) Conserving Minnesota's Forest Birds of
4.20 4.21 4.22 4.23 4.24 4.25 4.26 4.27 4.28 4.29	S280,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide information-management system that uses wildlife-rehabilitation data to identify emerging threats to wildlife health in Minnesota. (h) Conserving Minnesota's Forest Birds of Management Concern
4.20 4.21 4.22 4.23 4.24 4.25 4.26 4.27 4.28 4.29	\$280,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide information-management system that uses wildlife-rehabilitation data to identify emerging threats to wildlife health in Minnesota. (h) Conserving Minnesota's Forest Birds of Management Concern \$500,000 the second year is from the trust
4.20 4.21 4.22 4.23 4.24 4.25 4.26 4.27 4.28 4.29 4.30 4.31	\$280,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide information-management system that uses wildlife-rehabilitation data to identify emerging threats to wildlife health in Minnesota. (h) Conserving Minnesota's Forest Birds of Management Concern \$500,000 the second year is from the trust fund to the Board of Regents of the University
4.20 4.21 4.22 4.23 4.24 4.25 4.26 4.27 4.28 4.29 4.30 4.31 4.32	\$280,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide information-management system that uses wildlife-rehabilitation data to identify emerging threats to wildlife health in Minnesota. (h) Conserving Minnesota's Forest Birds of Management Concern \$500,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota for the Natural Resources
4.20 4.21 4.22 4.23 4.24 4.25 4.26 4.27 4.28 4.29 4.30 4.31 4.32 4.33	\$280,000 the second year is from the trust fund to the Board of Regents of the University of Minnesota to develop a statewide information-management system that uses wildlife-rehabilitation data to identify emerging threats to wildlife health in Minnesota. (h) Conserving Minnesota's Forest Birds of Management Concern \$500,000 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 identify

5.1	by which time the project must be completed
5.2	and final products delivered.
5.3	(i) Mapping Avian Movement in Minnesota
5.4	\$200,000 the second year is from the trust
5.5	fund to the Board of Regents of the University
5.6	of Minnesota for the Natural Resources
5.7	Research Institute in Duluth to pilot the
5.8	establishment of a network of automated
5.9	radio-telemetry stations to monitor bird
5.10	migration and local movements and to develop
5.11	strategic plans for using infrastructure long
5.12	term to monitor animal movement for
5.13	conservation. This appropriation is available
5.14	until June 30, 2021, by which time the project
5.15	must be completed and final products
5.16	delivered.
5.17 5.18 5.19	(j) Improve Trout-Stream Management by Understanding Variable Winter Thermal Conditions
5.20	\$400,000 the second year is from the trust
5.21	fund to the Board of Regents of the University
5.22	of Minnesota to identify how winter
5.23	groundwater flows, air temperature, and
5.24	streambed conditions affect insect productivity
5.25	in order to guide restoration and management
5.26	efforts in southeastern Minnesota trout
5.27	streams. This appropriation is available until
5.28	June 30, 2021, by which time the project must
5.29	be completed and final products delivered.
5.30 5.31	(k) Conserving Minnesota's Nine Species of Freshwater Turtles
5.32	\$300,000 the second year is from the trust
5.33	fund to the Minnesota Zoological Garden to
5.34	improve the long-term viability of Minnesota's
5.35	imperiled turtle populations by researching

5.1

11/29/17	ATTORNEY		LCCMR
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implementing mechanisms to reduce threats		
and mortality, and creating related outreach		
and educational materials. This appropriation		
is available until June 30, 2021, by which time		
the project must be completed and final		
products delivered.		
(l) Develop Sonar Data Mapping on Three		
Rivers to Assess Suitability for Native Mussel Habitat		
\$200,000 the second year is from the trust		
fund to the commissioner of natural resources		
for an agreement with the National Park		
Service to create high-resolution sonar data		
maps to identify critical native mussel habitat		
for the designated Lower St. Croix National		
Scenic Riverway and the Mississippi National		
River and Recreation Area including part of		
the Minnesota River.		
Subd. 4. Water Resources	<u>-0-</u>	5,275,000
(a) Pilot Program to Optimize Local Mechanical and Pond Wastewater-Treatment Plants		
\$700,000 the second year is from the trust		
fund to the commissioner of the Minnesota		
Pollution Control Agency, in partnership with		
the Minnesota Rural Water Association and		
the University of Minnesota's Technical		
Assistance Program, to implement a pilot		
program to optimize existing local mechanical		
and pond wastewater-treatment systems to		
increase nutrient removal and improve		
efficiency without requiring costly upgrades.		
(b) Assess and Develop Strategies to Remove Microscopic Plastic-Particle Pollution from Minnesota Water Bodies		
Trimiesota viater Boares		
\$300,000 the second year is from the trust		

7.1	of Minnesota to assess, track, and develop
7.2	methods to remove microscopic plastic
7.3	particles that are dispersed and accumulating
7.4	as pollution in Minnesota water bodies. This
7.5	appropriation is subject to Minnesota Statutes,
7.6	section 116P.10. This appropriation is
7.7	available until June 30, 2021, by which time
7.8	the project must be completed and final
7.9	products delivered.
7.10 7.11 7.12	(c) Reduce Chlorides in Minnesota Waters by Evaluating Road-Salt Alternatives and Pavement Innovations
7.13	\$400,000 the second year is from the trust
7.14	fund to the Board of Regents of the University
7.15	of Minnesota to investigate road-salt
7.16	alternatives and pavement innovations to
7.17	reduce lake, stream, and groundwater
7.18	degradation caused by road-salt chlorides. This
7.19	appropriation is available until June 30, 2021,
7.20	by which time the project must be completed
7.21	and final products delivered.
7.22	(d) Protect Water Quality with Efficient
7.23 7.24	Removal of Contaminants in Treatment Ponds for Storm Water
	ф205 000 d — 1 — : С — d —
7.25	\$325,000 the second year is from the trust
7.26	fund to the Board of Trustees of the Minnesota
7.27	State Colleges and Universities system for St.
7.28	Cloud State University to evaluate the
7.29	effectiveness of best-management practices
7.30	in removing contaminants from storm water
7.31	to safeguard aquatic habitats. This
7.32	appropriation is available until June 30, 2021,
7.33	by which time the project must be completed
7.34	and final products delivered.
7.35 7.36	(e) Develop Small and Inexpensive Purification System for Community Drinking Water

8.1	\$425,000 the second year is from the trust
8.2	fund to the Board of Regents of the University
8.3	of Minnesota to develop a small and
8.4	inexpensive purification-technology system
8.5	for community drinking water facilities to
8.6	remove toxic contaminants, make water safe
8.7	to drink, and improve drinking-water quality.
8.8	This appropriation is subject to Minnesota
8.9	Statutes, section 116P.10. This appropriation
8.10	is available until June 30, 2021, by which time
8.11	the project must be completed and final
8.12	products delivered.
8.13	(f) Evaluate Emerging Pathogens in Lakes,
8.14 8.15	Rivers, and Tap Water to Keep Drinking Water Safe
8.13	Sale
8.16	\$325,000 the second year is from the trust
8.17	fund to the Board of Regents of the University
8.18	of Minnesota to evaluate emerging pathogens
8.19	including Legionella and mycobacteria to
8.20	ensure that surface water used for drinking
8.21	water and tap water is safe to drink. This
8.22	appropriation is available until June 30, 2021,
8.23	by which time the project must be completed
8.24	and final products delivered.
8.25	(g) Characterize Unregulated Contaminants in
8.26	Source Water and Drinking Water
8.27	\$1,000,000 the second year is from the trust
8.28	fund to the commissioner of health to establish
8.29	monitoring networks of public water-system
8.30	wells and surface-water intakes to determine
8.31	if contaminants persist after standard public
8.32	water treatment. This appropriation is
8.33	available until June 30, 2023, by which time
8.34	the project must be completed and final
8.35	products delivered.

9.1 9.2 9.3	(h) Mapping Antibiotic Resistance in Minnesota to Help Protect Environmental, Animal, and Human Health
9.4	\$750,000 the second year is from the trust
9.5	fund to the Board of Regents of the University
9.6	of Minnesota to quantify and map antibiotic
9.7	and antibiotic-resistance gene contamination
9.8	in Minnesota waters and soils to identify
9.9	locations in need of mitigation to protect
9.10	environmental, animal, and human health. This
9.11	appropriation is available until June 30, 2021,
9.12	by which time the project must be completed
9.13	and final products delivered.
9.14 9.15	(i) Farmer-Led Expansion of Alfalfa Production to Increase Water Protection
9.16	\$500,000 the second year is from the trust
9.17	fund to the Board of Regents of the University
9.18	of Minnesota to develop a farmer-led,
9.19	market-based working-lands approach to
9.20	increase water protection in agricultural areas
9.21	by targeted expansion of alfalfa production
9.22	and development of methods to convert alfalfa
9.23	to high-value bioproducts. This appropriation
9.24	is available until June 30, 2021, by which time
9.25	the project must be completed and final
9.26	products delivered.
9.27 9.28	(j) Using Perennial Grain Crops in Wellhead Protection Areas to Protect Groundwater
9.29	\$250,000 the second year is from the trust
9.30	fund to the commissioner of agriculture to
9.31	establish demonstration plots of Kernza, a new
9.32	intermediate perennial grain crop, to evaluate
9.33	the potential to profitably reduce nitrate
9.34	contamination of groundwater in vulnerable
9.35	wellhead protection regions of Minnesota.
9.36	Any income generated as part of this

appropriation may be used to expand	d the		
project.			
(k) Implement Pilot Credit-Tradin Storm Water in the Shell Rock Rive to Improve Water Quality	0 v		
\$300,000 the second year is from the	<u>e trust</u>		
fund to the commissioner of natural r	resources		
for an agreement with the Shell Rock	k River		
Watershed District to develop and in	nplement		
a pilot water-quality credit-trading p	orogram_		
for storm water that provides volunta	ary and		
cost-effective options to reduce pollu	ution on		
a watershed scale.			
Subd. 5. Technical Assistance, Out Environmental Education	reach, and	<u>-0-</u>	5,168,000
(a) Prairie Sportsman Statewide Er Broadcasts and Videos	<u>nvironmental</u>		
\$300,000 the second year is from the	e trust		
fund to the commissioner of natural r	resources		
for an agreement with Pioneer Public	<u>c</u>		
Television to provide outreach on ou	<u>ıtdoor</u>		
recreation, conservation, and natural	resource		
issues, including water quality, wildl	<u>life</u>		
habitat, and invasive species, through	h a series		
of interrelated educational and training	ng videos		
and statewide broadcast-television pr	rograms.		
(b) YES! Students Take on Minnes Quality Challenge	sota Water-		
\$213,000 the second year is from the	e trust		
fund to the commissioner of natural r	resources		
for an agreement with Prairie Woods	<u>s</u>		
Environmental Learning Center to ex	kpand the		
Youth Energy Summit (YES!) mode	el to		
improve local waterways by training	g and		
mobilizing over 20 youth-led teams	<u>in</u>		
Minnesota communities to complete	e 30 or		

11.1	more projects related to water quality
11.2	including monitoring and reporting.
11.3	(c) Get Outdoors After-School Training
11.4	\$30,000 the second year is from the trust fund
11.5	to the commissioner of natural resources for
11.6	an agreement with Project Get Outdoors to
11.7	train and equip youth leaders at out-of-school
11.8	youth organizations across Minnesota with
11.9	knowledge, skills, and resources to incorporate
11.10	outdoor nature activities into after-school
11.11	programs for at least 6,000 children, including
11.12	those from underserved populations.
11.13 11.14	(d) Connecting Students with Water Stewardship through Hands-on Learning
11.15	\$400,000 the second year is from the trust
11.16	fund to the commissioner of natural resources
11.17	for an agreement with Minnesota Trout
11.18	Unlimited to engage students in classroom and
11.19	outdoor hands-on learning focused on water
11.20	quality, groundwater, aquatic life, and
11.21	watershed stewardship and providing youth
11.22	and their families with fishing experiences.
11.23	This appropriation is available until June 30,
11.24	2021, by which time the project must be
11.25	completed and final products delivered.
11.26 11.27	(e) Expanding River Watch Program on the Minnesota River With High-School Teams
11.28	\$100,000 the second year is from the trust
11.29	fund to the commissioner of natural resources
11.30	for an agreement with Friends of the
11.31	Minnesota Valley to expand a River Watch
11.32	program on the Minnesota River to recruit at
11.33	least 15 additional teams of high-school
11.34	students in monthly monitoring and reporting
11.35	of water quality.

12.1 12.2	(f) Increase Diversity in Environmental Careers to Serve Minnesota's Changing Demographics
12.3	\$750,000 the second year is from the trust
12.4	fund to the commissioner of natural resources
12.5	in cooperation with Conservation Corps
12.6	Minnesota and Iowa to provide a
12.7	college-to-work pathway for students of
12.8	diversity to pursue natural resources careers
12.9	through internships and mentorships with state
12.10	agencies. This appropriation is available until
12.11	June 30, 2023, by which time the project must
12.12	be completed and final products delivered.
12.13 12.14	(g) Pollinator Ambassadors Program for Gardens
12.15	\$250,000 the second year is from the trust
12.16	fund to the Board of Regents of the University
12.17	of Minnesota to increase knowledge of
12.18	pollinators in gardens and yards and improve
12.19	pollinator habitat by expanding outreach,
12.20	training, and tools for Minnesota communities
12.21	as part of the Pollinator Ambassadors program.
12.22	This appropriation is available until June 30,
12.23	2021, by which time the project must be
12.24	completed and final products delivered.
12.25 12.26	(h) Morris Prairie Pollinator Demonstration Area and Education
12.27	\$550,000 the second year is from the trust
12.28	fund to the Board of Regents of the University
12.29	of Minnesota for the West Central Research
12.30	and Outreach Center at Morris to restore 17
12.31	acres of native prairie for pollinators and to
12.32	construct wayside shelters and kiosks along
12.33	an existing trail to provide information to
12.34	visitors on the importance of pollinators and
12.35	native prairie ecosystems. This appropriation
12.36	is available until June 30, 2021, by which time

13.1	the project must be completed and final
13.2	products delivered.
13.3 13.4 13.5	(i) Expanding Nature Knowledge and Experience with New Interactive Exhibits at North Mississippi Regional Park
13.6	\$500,000 the second year is from the trust
13.7	fund to the commissioner of natural resources
13.8	for an agreement with the Minneapolis Park
13.9	and Recreation Board to develop new
13.10	interactive exhibits at North Mississippi
13.11	Regional Park to encourage the approximately
13.12	326,000 annual visitors to better understand
13.13	and explore the river and surrounding natural
13.14	area.
13.15	(j) Update International Wolf Center Exhibits
13.16	\$1,000,000 the second year is from the trust
13.17	fund to the commissioner of natural resources
13.18	for an agreement with the International Wolf
13.19	Center to design, construct, and install new
13.20	interactive educational exhibits to help
13.21	Minnesotans understand coexistence with the
13.22	state's wolf populations and ongoing wolf-
13.23	management efforts.
13.24 13.25	(k) Expanding the State's Reuse Economy to Conserve Natural Resources
13.26	\$275,000 the second year is from the trust
13.27	fund to the commissioner of natural resources
13.28	for an agreement with ReUSE Minnesota to
13.29	provide outreach and technical assistance to
13.30	communities and small businesses to create
13.31	and expand opportunities for reusing, renting,
13.32	and repairing consumer goods as an alternative
13.33	to using new materials so solid-waste disposal
13.34	and its impacts are measurably reduced and
13.35	more local reuse jobs are created.

11/29/17	ATTORNEY	CKM	LCCMR

(l) Expand Materials Reuse and Recycling Jobs <u>Program</u>		
\$800,000 the second year is from the trust		
fund to the commissioner of natural resources		
for an agreement with Better Futures		
Minnesota, in cooperation with the Northwest		
Indian Community Development Corporation		
and the Board of Regents of the University of		
Minnesota for the Natural Resources Research		
Institute in Duluth, to expand building		
deconstruction and material-reuse practices		
and jobs in partnership with counties, tribes,		
and municipalities statewide and to document		
the environmental, health, and economic		
benefits of these practices.		
Subd. 6. Aquatic and Terrestrial Invasive Species	<u>-0-</u>	5,760,000
(a) Minnesota Invasive Terrestrial Plans and Pest Center - Phase 4		
\$3,500,000 the second year is from the trust		
fund to the Board of Regents of the University		
of Minnesota for high-priority research at the		
Invasive Terrestrial Plants and Pests Center		
to protect Minnesota's natural and agricultural		
resources from terrestrial invasive plants,		
pathogens, and pests as identified through the		
center's strategic prioritization process. This		
appropriation is available until June 30, 2023,		
by which time the project must be completed		
and final products delivered.		
(b) Palmer Amaranth Detection and Eradication Continuation		
\$431,000 the second year is from the trust		
fund to the commissioner of agriculture to		
continue to monitor, ground survey, and		
control Palmer amaranth primarily in		
conservation plantings and to develop and		

15.1	implement aerial-survey methods to prevent
15.2	infestation and protect prairies, other natural
15.3	areas, and agricultural crops.
15.4 15.5	(c) Evaluate and Control Methods for Invasive Hybrid Cattails
15.6	\$131,000 the second year is from the trust
15.7	fund to the commissioner of natural resources
15.8	for an agreement with Voyageurs National
15.9	Park to evaluate the effectiveness of
15.10	mechanical harvesting and managing muskrat
15.11	populations to remove exotic hybrid cattails
15.12	and restore fish and wildlife habitat in
15.13	Minnesota wetlands. This appropriation is
15.14	available until June 30, 2021, by which time
15.15	the project must be completed and final
15.16	products delivered.
15.17 15.18	(d) Developing RNA Interference to Control Zebra Mussels
15.19	\$500,000 the second year is from the trust
15.20	fund to the commissioner of natural resources
15.21	for an agreement with the United States
15.22	Geological Survey to develop a genetic control
15.23	tool that exploits the natural process of RNA
15.24	silencing to specifically target and effectively
15.25	control zebra mussels without affecting other
15.26	species or causing other nontarget effects. This
15.27	appropriation is available until June 30, 2021,
15.28	by which time the project must be completed
15.29	and final products delivered.
15.30 15.31	(e) Install and Evaluate Invasive Carp Deterrent for Mississippi River Locks and Dams
15.32	\$998,000 the second year is from the trust
15.33	fund to the Board of Regents of the University
15.34	of Minnesota in cooperation with the United
15.35	States Army Corps of Engineers and the
15.36	United States Fish and Wildlife Service to

16.1	install, evaluate, and optimize a system in		
16.2	Mississippi River locks and dams to deter		
16.3	passage of invasive carp without negatively		
16.4	impacting native fish and to evaluate the		
16.5	ability of predator fish in the pools above the		
16.6	locks and dams to consume young carp. The		
16.7	project must conduct a cost comparison of		
16.8	equipment purchase versus lease options and		
16.9	choose the most effective option. This		
16.10	appropriation is available until June 30, 2021,		
16.11	by which time the project must be completed		
16.12	and final products delivered.		
16.13 16.14	(f) Determining Risk of Toxic Alga in Minnesota Lakes		
16.15	\$200,000 the second year is from the trust		
16.16	fund to the Science Museum of Minnesota for		
16.17	the St. Croix Watershed Research Station to		
16.18	determine the historical distribution,		
16.19	abundance, and toxicity of the invasive		
16.20	blue-green alga, Cylindrospermopsis		
16.21	raciborskii, in about 20 lakes across Minnesota		
16.22	and inform managers and the public about the		
16.23	alga's spread and health risks. This		
16.24	appropriation is available until June 30, 2021,		
16.25	by which time the project must be completed		
16.26	and final products delivered.		
16.27	Subd. 7. Air Quality and Renewable Energy	<u>-0-</u>	1,750,000
16.28 16.29	(a) Develop Solar Window Concentrators for Electricity		
16.30	\$350,000 the second year is from the trust		
16.31	fund to the Board of Regents of the University		
16.32	of Minnesota to develop, evaluate, and		
16.33	optimize thin film silicon-based luminescent		
16.34	solar window concentrators in order to		
16.35	produce inexpensive, clean energy and reduce		
16.36	air pollution. This appropriation is subject to		

11/29/17	ATTORNEY	CKM	LCCMR

17.1	Minnesota Statutes, section 116P.10. This		
17.2	appropriation is available until June 30, 2021,		
17.3	by which time the project must be completed		
17.4	and final products delivered.		
17.5 17.6	(b) Demonstrations for Community-Scale Storage Systems for Renewable Energy		
17.7	\$550,000 the second year is from the trust		
17.8	fund to the Board of Regents of the University		
17.9	of Minnesota to install, demonstrate, and		
17.10	evaluate three community-scale storage		
17.11	systems for renewable energy and develop a		
17.12	guidebook on storing renewable energy for		
17.13	statewide use. This appropriation is available		
17.14	until June 30, 2021, by which time the project		
17.15	must be completed and final products		
17.16	delivered.		
17.17 17.18	(c) Develop Inexpensive Energy from Simple Roll-to-Roll Manufacturing		
17.19	\$300,000 the second year is from the trust		
17.20	fund to the Board of Regents of the University		
17.21	of Minnesota to develop inexpensive,		
17.22	high-efficiency solar energy with simple		
17.23	roll-to-roll advanced manufacturing		
17.24	technology, using new materials such as		
17.25	perovskite to make solar cells. This		
17.26	appropriation is subject to Minnesota Statutes,		
17.27	section 116P.10. This appropriation is		
17.28	available until June 30, 2021, by which time		
17.29	the project must be completed and final		
17.30	products delivered.		
17.31 17.32	Subd. 8. Methods to Protect or Restore Land, Water, and Habitat	<u>-0-</u>	2,569,000
17.33	(a) Nongame Wildlife Program Acceleration		
17.34	\$1,000,000 the second year is from the trust		
17.35	fund to the commissioner of natural resources		
17.36	to accelerate the nongame wildlife program		

18.1	including rare wildlife data collection, habitat
18.2	management, collaborative land protection,
18.3	conservation education, and a new emphasis
18.4	on promoting nature tourism to benefit
18.5	wildlife, visitors, and rural communities.
18.6 18.7 18.8	(b) Develop Biomulch to Replace Plastic Soil Covering in Vegetable and Fruit Production to Increase Yield and Reduce Waste
18.9	\$310,000 the second year is from the trust
18.10	fund to the Board of Regents of the University
18.11	of Minnesota to develop and test the
18.12	performance of biodegradable biomulch to
18.13	increase yield, conserve water, suppress weeds
18.14	and pests, add nutrients to the soil, and replace
18.15	large amounts of nonrecyclable and
18.16	nondegradable plastic used in vegetable and
18.17	fruit production. This appropriation is
18.18	available until June 30, 2021, by which time
18.19	the project must be completed and final
18.20	products delivered.
18.21 18.22 18.23	(c) Develop Market-Based Alternatives for Perennial Crops to Benefit Water Quality and Wildlife
18.24	\$150,000 the second year is from the trust
18.25	fund to the Science Museum of Minnesota for
18.26	the St. Croix Watershed Research Station to
18.27	design and evaluate at least six market-based
18.28	scenarios for perennial cropping systems in
18.29	Minnesota, including technological and
18.30	economic feasibility, and estimate their
18.31	potential to improve water quality and provide
18.32	wildlife habitat. This appropriation is available
18.33	until June 30, 2021, by which time the project
18.34	must be completed and final products
18.35	delivered.
18.36 18.37	(d) Agricultural Weed Control Using Autonomous Mowers

19.1	\$550,000 the second year is from the trust
19.2	fund to the Board of Regents of the University
19.3	of Minnesota for the West Central Research
19.4	and Outreach Center at Morris to design,
19.5	integrate, and field-test a robotic pasture
19.6	mower and solar charging station to control
19.7	weeds, reduce herbicide use, reduce energy
19.8	costs, and improve native vegetation and
19.9	forage quality on agricultural lands. This
19.10	appropriation is subject to Minnesota Statutes,
19.11	section 116P.10. This appropriation is
19.12	available until June 30, 2021, by which time
19.13	the project must be completed and final
19.14	products delivered.
19.15	(e) Restoring Forests in Minnesota State Parks
19.16	\$250,000 the second year is from the trust
19.17	fund to the commissioner of natural resources
19.18	to restore at least 255 acres of high-quality
19.19	forests in state parks such as Itasca, Jay Cooke,
19.20	and Forestville Mystery Cave State Parks and
19.21	Greenleaf Lake State Recreation Area. This
19.22	appropriation is available until June 30, 2023,
19.23	by which time the project must be completed
19.24	and final products delivered.
19.25 19.26 19.27	(f) Develop Strategies for Timber Harvest to Minimize Soil Impacts to Maintain Healthy and Diverse Forests
19.28	\$200,000 the second year is from the trust
19.29	fund to the Board of Regents of the University
19.30	of Minnesota to develop strategies and
19.31	practical tools to minimize soil compaction
19.32	and other impacts across a range of conditions
19.33	during timber harvest to maintain timber
19.34	availability, improve regeneration of diverse
19.35	forests, and benefit wildlife habitat. This
19.36	appropriation is available until June 30, 2022.

20.1	by which time the project must be completed		
20.2	and final products delivered.		
20.3 20.4	(g) Restoring Wetland Invertebrates to Revive Wildlife Habitat		
20.5	\$400,000 the second year is from the trust		
20.6	fund to the commissioner of natural resources		
20.7	to assess invertebrate amphipods in wetlands		
20.8	and explore stocking them as a valuable food		
20.9	source for ducks and other wildlife in the		
20.10	Prairie Pothole Region of the state. This		
20.11	appropriation is available until June 30, 2021,		
20.12	by which time the project must be completed		
20.13	and final products delivered.		
20.14 20.15	(h) Preserving and Restoring Minnesota's Native Orchids - Phase 2		
20.16	\$259,000 the second year is from the trust		
20.17	fund to the Board of Regents of the University		
20.18	of Minnesota for the Minnesota Landscape		
20.19	Arboretum to expand collection and		
20.20	preservation efforts to enable long-term		
20.21	conservation of at least 25 of the 48 native		
20.22	orchid species in Minnesota and to continue		
20.23	propagation and cultivation research. This		
20.24	appropriation is available until June 30, 2021,		
20.25	by which time the project must be completed		
20.26	and final products delivered.		
20.27 20.28	Subd. 9. Land Acquisition, Habitat, and Recreation	<u>-0-</u>	17,439,000
20.29 20.30	(a) Grants for Local Parks, Trails, and Natural Areas		
20.31	\$2,000,000 the second year is from the trust		
20.32	fund to the commissioner of natural resources		
20.33	to solicit, rank, and fund competitive matching		
20.34	grants for local parks, trail connections, and		
20.35	natural and scenic areas under Minnesota		
20.36	Statutes, section 85.019. The appropriation is		

21.1	for local nature-based recreation and
21.2	connections to regional and state natural areas
21.3	and recreation facilities and does not include
21.4	athletic facilities such as sport fields, courts,
21.5	and playgrounds. This appropriation is
21.6	available until June 30, 2021, by which time
21.7	the project must be completed and final
21.8	products delivered.
21.9 21.10	(b) Develop Mesabi Trail Segment From County Road 88 to Ely
21.11	\$600,000 the second year is from the trust
21.12	fund to the commissioner of natural resources
21.13	for an agreement with the St. Louis and Lake
21.14	Counties Regional Railroad Authority for
21.15	environmental assessment, permitting,
21.16	right-of-way easements or other acquisition
21.17	as needed, engineering, and construction of a
21.18	bituminous surface section of the Mesabi Trail
21.19	from Highway 169 and County Road 88 to
21.20	Ely. This appropriation is available until June
21.21	30, 2022, by which time the project must be
21.22	completed and final products delivered.
21.23 21.24	(c) Harmony State Trail Extension Land Acquisition
21.25	\$235,000 the second year is from the trust
21.26	fund to the commissioner of natural resources
21.27	for an agreement with the city of Harmony to
21.28	acquire fee title of about 16 parcels to allow
21.29	for the approximate six-mile extension of the
21.30	legislatively authorized state trail from
21.31	Harmony south to the Iowa state border with
21.32	a spur to Niagara Cave. The land must be
21.33	transferred to the state after it has been
21.34	purchased.
21.35 21.36	(d) Mississippi Blufflands State Trail - Red Wing Barn Bluff to Colvill Park Segment

22.1	\$550,000 the second year is from the trust
22.2	fund to the commissioner of natural resources
22.3	for an agreement with the city of Red Wing
22.4	to be used with other nonstate funds to
22.5	construct an approximate
22.6	three-quarter-mile-long hard-surfaced segment
22.7	of the Mississippi Blufflands State Trail along
22.8	Red Wing's Mississippi River riverfront from
22.9	Barn Bluff Regional Park to Colvill Park. This
22.10	appropriation is available until June 30, 2021,
22.11	by which time the project must be completed
22.12	and final products delivered.
22.13 22.14	(e) Swedish Immigrant Regional Trail Segment within Interstate State Park
22.15	\$2,254,000 the second year is from the trust
22.16	fund to the commissioner of natural resources
22.17	for an agreement with Chisago County
22.18	Environmental Services to construct an
22.19	approximate one-half-mile regional county
22.20	trail segment within Interstate State Park from
22.21	the end point of the existing trail at the park
22.22	boundary to city hall including a trail bridge
22.23	over the ravine and parking and trailhead
22.24	improvements and to conduct a natural and
22.25	cultural review to determine the feasibility and
22.26	route of a future section of the trail through
22.27	the park. This appropriation is available until
22.28	June 30, 2021, by which time the project must
22.29	be completed and final products delivered.
22.30	(f) Enhancement Plan for Superior Hiking Trail
22.31	\$100,000 the second year is from the trust
22.32	fund to the commissioner of natural resources
22.33	for an agreement with the Superior Hiking
22.34	Trail Association to evaluate improvements
22.35	to the 310-mile-long Superior Hiking Trail

11/29/17	ATTORNEY	CKM	LCCMR

23.1	including routing, safety, water management,
23.2	maintenance, and other environmental,
23.3	recreational, and design issues and to develop
23.4	an interactive trail-management system to
23.5	capture efficiencies and best-management
23.6	practices.
23.7 23.8 23.9	(g) Protecting Mississippi River Headwaters Lands through Local, State, and Federal Partnership
23.10	\$700,000 the second year is from the trust
23.11	fund to the commissioner of natural resources
23.12	for an agreement with the city of Baxter, in
23.13	cooperation with Brainerd Public Schools and
23.14	the Camp Ripley Sentinel Landscape Program,
23.15	to acquire about 200 acres of forested land on
23.16	the upper Mississippi River adjacent to
23.17	Mississippi River Overlook Park for multiple
23.18	public benefits, including being an outdoor
23.19	classroom for local schools. To be eligible for
23.20	reimbursement, costs for real estate
23.21	transactions must be specific to this acquisition
23.22	and documented as required in subdivision 13,
23.23	paragraph (k).
23.24	(h) Protecting North-Central Minnesota Lakes
23.25	\$750,000 the second year is from the trust
23.26	fund to the commissioner of natural resources
23.27	for an agreement with the Crow Wing County
23.28	Soil and Water Conservation District to
23.29	increase watershed protection to maintain and
23.30	improve water quality in lakes and rivers in
23.31	Aitkin and Crow Wing Counties with about
23.32	ten permanent RIM conservation easements
23.33	and 12 forest stewardship plans and by
23.34	implementing six best-management practices.
23.35	(i) Easement Program for Native Prairie Bank

24.1	\$2,000,000 the second year is from the trust
24.2	<u>fund to the commissioner of natural resources</u>
24.3	to provide technical stewardship assistance to
24.4	private landowners, restore and enhance about
24.5	270 acres of native prairie protected by
24.6	easements in the native prairie bank, and
24.7	acquire easements for the native prairie bank
24.8	in accordance with Minnesota Statutes, section
24.9	84.96, on about 275 acres, including preparing
24.10	initial ecological baseline property
24.11	assessments. About \$120,000 of this
24.12	appropriation may be deposited in the natural
24.13	resources conservation easement stewardship
24.14	account, created in Minnesota Statutes, section
24.15	84.69, proportional to the number of easement
24.16	acres acquired. A list of proposed easement
24.17	acquisitions and restoration sites for the native
24.18	prairie bank are required in the work plan.
24.19	This appropriation is available until June 30,
24.20	2021, by which time the project must be
24.21	completed and final products delivered.
24.22	(j) Minnesota State Trail Development
24.23	\$2,500,000 the second year is from the trust
24.24	fund to the commissioner of natural resources
24.25	to expand high-priority recreational
24.26	opportunities on Minnesota's state trails by
24.27	developing new trail segments and
24.28	rehabilitating, improving, and enhancing
24.29	existing state trails. High-priority trail
24.30	segments to develop and enhance include but
24.31	are not limited to the Gateway, Gitchi Gami,
24.32	Paul Bunyan, and Heartland State Trails. A
24.33	proposed list of trail projects on legislatively
24.34	authorized state trails is required in the work
24.35	plan. This appropriation is available until June

25.1	30, 2021, by which time the project must be
25.2	completed and final products delivered.
25.3	(k) Minnesota State Parks and State Trails
25.4	\$2,500,000 the second year is from the trust
25.5	fund to the commissioner of natural resources
25.6	to acquire about 163 acres of high-priority
25.7	inholdings from willing sellers within the
25.8	legislatively authorized boundaries of state
25.9	parks and trails in order to protect Minnesota's
25.10	natural heritage, enhance outdoor recreational
25.11	opportunities, and improve the efficiency of
25.12	public land management. Priorities include
25.13	but are not limited to Tettegouche, Sibley, and
25.14	Minneopa State Parks and the Goodhue
25.15	Pioneer State Trail. A list of proposed
25.16	acquisitions is required in the work plan. This
25.17	appropriation is available until June 30, 2021,
25.18	by which time the project must be completed
25.19	and final products delivered.
25.20	(l) Scientific and Natural Areas Program
25.21	\$3,250,000 the second year is from the trust
25.22	fund to the commissioner of natural resources
25.23	for the scientific and natural areas program.
25.24	Of this amount, \$1,500,000 is for habitat-
25.25	restoration activities, \$500,000 is for scientific
25.26	and natural areas public engagement and
25.27	outreach, and \$1,250,000 is to acquire strategic
25.28	high-quality lands that meet criteria for
25.29	scientific and natural areas under Minnesota
25.30	Statutes, section 86A.05, from willing sellers
25.31	in southern Minnesota. For each acre acquired
25.32	with this appropriation, the Department of
25.33	Natural Dagayraag must dagaymant that the
	Natural Resources must document that the
25.34	department has sold an acre of state land. If

26.1	the appropriation may be used for scientific		
26.2	and natural areas restoration. A list of		
26.3	proposed acquisitions and restorations is		
26.4	required in the work plan. This appropriation		
26.5	is available until June 30, 2021, by which time		
26.6	the project must be completed and final		
26.7	products delivered.		
26.8	Subd. 10. Contract Agreement Reimbursement	<u>-0-</u>	135,000
26.9	\$135,000 the second year is from the trust		
26.10	fund to the commissioner of natural resources,		
26.11	at the direction of the Legislative-Citizen		
26.12	Commission on Minnesota Resources, for		
26.13	expenses incurred for preparing and		
26.14	administering contracts for the agreements		
26.15	specified in this section. The commissioner		
26.16	must provide documentation to the		
26.17	Legislative-Citizen Commission on Minnesota		
26.18	Resources on the expenditure of these funds.		
26.19	Subd. 11. Availability of Appropriations		
26.20	Money appropriated in this section may not		
26.21	be spent on activities unless they are directly		
26.22	related to and necessary for a specific		
26.23	appropriation and are specified in the work		
26.24	plan approved by the Legislative-Citizen		
26.25	Commission on Minnesota Resources. Money		
26.26	appropriated in this section must not be spent		
26.27	on indirect costs or other institutional overhead		
26.28	charges that are not directly related to and		
26.29	necessary for a specific appropriation. Costs		
26.30	that are directly related to and necessary for		
26.31	an appropriation, including financial services,		
26.32	human resources, information services, rent,		
26.33	and utilities, are eligible only if the costs can		
26.34	be clearly justified and individually		
26.35	documented specific to the appropriation's		

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11/29/17

27.1	purpose and would not be generated by the
27.2	recipient but for receipt of the appropriation.
27.3	No broad allocations for costs in either dollars
27.4	or percentages are allowed. Unless otherwise
27.5	provided, the amounts in this section are
27.6	available until June 30, 2020, when projects
27.7	must be completed and final products
27.8	delivered. For acquisition of real property, the
27.9	appropriations in this section are available for
27.10	an additional fiscal year if a binding contract
27.11	for acquisition of the real property is entered
27.12	into before the expiration date of the
27.13	appropriation. If a project receives a federal
27.14	grant, the period of the appropriation is
27.15	extended to equal the federal grant period.
27.16	Subd. 12. Data-Availability Requirements
27.17	Data collected by the projects funded under
27.18	this section must conform to guidelines and
27.19	standards adopted by the Office of MN.IT
27.20	Services. Spatial data must also conform to
27.21	additional guidelines and standards designed
27.22	to support data coordination and distribution
27.23	that have been published by the Minnesota
27.24	Geospatial Information Office. Descriptions
27.25	of spatial data must be prepared as specified
27.26	in the state's geographic metadata guideline
27.27	and must be submitted to the Minnesota
27.28	Geospatial Information Office. All data must
27.29	be accessible and free to the public unless
27.30	made private under the Data Practices Act,
27.31	Minnesota Statutes, chapter 13. To the extent
27.32	practicable, summary data and results of
27.33	projects funded under this section should be
27.34	readily accessible on the Internet and
27.35	identified as having received funding from the
27.36	environment and natural resources trust fund.

28.2	(a) As a condition of accepting an
28.3	appropriation under this section, an agency or
28.4	entity receiving an appropriation or a party to
28.5	an agreement from an appropriation must
28.6	comply with paragraphs (b) to (l) and
28.7	Minnesota Statutes, chapter 116P, and must
28.8	submit a work plan and annual or semiannual
28.9	progress reports in the form determined by the
28.10	Legislative-Citizen Commission on Minnesota
28.11	Resources for any project funded in whole or
28.12	in part with funds from the appropriation.
28.13	Modifications to the approved work plan and
28.14	budget expenditures must be made through
28.15	the amendment process established by the
28.16	Legislative-Citizen Commission on Minnesota
28.17	Resources.
28.18	(b) A recipient of money appropriated in this
28.19	section that conducts a restoration using funds
28.20	appropriated in this section must use native
28.21	plant species according to the Board of Water
28.22	and Soil Resources' native vegetation
28.23	establishment and enhancement guidelines
28.24	and include an appropriate diversity of native
28.25	species selected to provide habitat for
28.26	pollinators throughout the growing season as
28.27	required under Minnesota Statutes, section
28.28	<u>84.973.</u>
28.29	(c) For all restorations conducted with money
28.30	appropriated under this section, a recipient
28.31	must prepare an ecological restoration and
28.32	management plan that, to the degree
28.33	practicable, is consistent with the
28.34	highest-quality conservation and ecological
28.35	goals for the restoration site. Consideration

Subd. 13. Project Requirements

28.1

29.1	should be given to soil, geology, topography,
29.2	and other relevant factors that would provide
29.3	the best chance for long-term success and
29.4	durability of the restoration project. The plan
29.5	must include the proposed timetable for
29.6	implementing the restoration, including site
29.7	preparation, establishment of diverse plant
29.8	species, maintenance, and additional
29.9	enhancement to establish the restoration;
29.10	identify long-term maintenance and
29.11	management needs of the restoration and how
29.12	the maintenance, management, and
29.13	enhancement will be financed; and take
29.14	advantage of the best-available science and
29.15	include innovative techniques to achieve the
29.16	best restoration.
29.17	(d) An entity receiving an appropriation in this
29.18	section for restoration activities must provide
29.19	an initial restoration evaluation at the
29.20	completion of the appropriation and an
29.21	evaluation three years after the completion of
29.22	the expenditure. Restorations must be
29.23	evaluated relative to the stated goals and
29.24	standards in the restoration plan, current
29.25	science, and, when applicable, the Board of
29.26	Water and Soil Resources' native vegetation
29.27	establishment and enhancement guidelines.
29.28	The evaluation must determine whether the
29.29	restorations are meeting planned goals,
29.30	identify any problems with implementing the
29.31	restorations, and, if necessary, give
29.32	recommendations on improving restorations.
29.33	The evaluation must be focused on improving
29.34	future restorations.

30.1	(e) All restoration and enhancement projects
30.2	funded with money appropriated in this section
30.3	must be on land permanently protected by a
30.4	conservation easement or public ownership.
30.5	(f) A recipient of money from an appropriation
30.6	under this section must give consideration to
30.7	contracting with Conservation Corps
30.8	Minnesota for contract restoration and
30.9	enhancement services.
30.10	(g) All conservation easements acquired with
30.11	money appropriated under this section must:
30.12	(1) be permanent;
30.13	(2) specify the parties to an easement in the
30.14	easement;
30.15	(3) specify all the provisions of an agreement
30.16	that are permanent;
30.17	(4) be sent to the Legislative-Citizen
30.18	Commission on Minnesota Resources in an
30.19	electronic format at least ten business days
30.20	before closing;
30.21	(5) include a long-term monitoring and
30.22	enforcement plan and funding for monitoring
30.23	and enforcing the easement agreement; and
30.24	(6) include requirements in the easement
30.25	document to address specific groundwater and
30.26	surface-water quality-protection activities such
30.27	as keeping water on the landscape, reducing
30.28	nutrient and contaminant loading, protecting
30.29	groundwater, and not permitting artificial
30.30	hydrological modifications.
30.31	(h) For any acquisition of lands or interest in
30.32	lands, a recipient of money appropriated under
30.33	this section must not agree to pay more than

31.2	of land using this money to complete the
31.3	purchase, in part or in whole, except that up
31.4	to ten percent above the appraised value may
31.5	be allowed to complete the purchase, in part
31.6	or in whole, using this money if permission is
31.7	received in advance of the purchase from the
31.8	Legislative-Citizen Commission on Minnesota
31.9	Resources.
31.10	(i) For any acquisition of land or interest in
31.11	land, a recipient of money appropriated under
31.12	this section must give priority to high-quality
31.13	natural resources or conservation lands that
31.14	provide natural buffers to water resources.
31.15	(j) For new lands acquired with money
31.16	appropriated under this section, a recipient
31.17	must prepare an ecological restoration and
31.18	management plan in compliance with
31.19	paragraph (c), including sufficient funding for
31.20	implementation unless the work plan addresses
31.21	why a portion of the money is not necessary
31.22	to achieve a high-quality restoration.
31.23	(k) To ensure public accountability for using
31.24	public funds, a recipient of money
31.25	appropriated under this section must, within
31.26	60 days of the transaction, provide to the
31.27	Legislative-Citizen Commission on Minnesota
31.28	Resources documentation of the selection
31.29	process used to identify parcels acquired and
31.30	provide documentation of all related
31.31	transaction costs, including but not limited to
31.32	appraisals, legal fees, recording fees,
31.33	commissions, other similar costs, and
31.34	donations. This information must be provided
31.35	for all parties involved in the transaction. The

100 percent of the appraised value for a parcel

31.1

32.1	recipient must also report to the
32.2	Legislative-Citizen Commission on Minnesota
32.3	Resources any difference between the
32.4	acquisition amount paid to the seller and the
32.5	state-certified or state-reviewed appraisal, if
32.6	a state-certified or state-reviewed appraisal
32.7	was conducted.
32.8	(1) A recipient of an appropriation from the
32.9	trust fund under this section must acknowledge
32.10	financial support from the environment and
32.11	natural resources trust fund in project
32.12	publications, signage, and other public
32.13	communications and outreach related to work
32.14	completed using the appropriation.
32.15	Acknowledgment may occur, as appropriate,
32.16	through use of the trust-fund logo or inclusion
32.17	of language attributing support from the trust
32.18	fund. Each direct recipient of money
32.19	appropriated in this section, as well as each
32.20	recipient of a grant awarded pursuant to this
32.21	section, must satisfy all reporting and other
32.22	requirements incumbent upon constitutionally
32.23	dedicated funding recipients as provided in
32.24	Minnesota Statutes, section 3.303, subdivision
32.25	10, and Minnesota Statutes, chapter 116P.
32.26 32.27	Subd. 14. Payment Conditions and Capital-Equipment Expenditures
32.28	(a) All agreements, grants, or contracts
32.29	referred to in this section must be administered
32.30	on a reimbursement basis unless otherwise
32.31	provided in this section. Notwithstanding
32.32	Minnesota Statutes, section 16A.41,
32.33	expenditures made on or after July 1, 2018,
32.34	or the date the work plan is approved,
32.35	whichever is later, are eligible for
32.36	reimbursement unless otherwise provided in

33.1	this section. Periodic payments must be made
33.2	upon receiving documentation that the
33.3	deliverable items articulated in the approved
33.4	work plan have been achieved, including
33.5	partial achievements as evidenced by approved
33.6	progress reports. Reasonable amounts may be
33.7	advanced to projects to accommodate
33.8	cash-flow needs or match federal money. The
33.9	advances must be approved as part of the work
33.10	plan. No expenditures for capital equipment
33.11	are allowed unless expressly authorized in the
33.12	project work plan.
33.13	(b) Single-source contracts as specified in the
33.14	approved work plan are allowed.
33.15 33.16	Subd. 15. Purchasing Recycled and Recyclable Materials
33.17	A political subdivision, public or private
33.18	corporation, or other entity that receives an
33.19	appropriation under this section must use the
33.20	appropriation in compliance with Minnesota
33.21	Statutes, section 16C.0725, regarding
33.22	purchasing recycled, repairable, and durable
33.23	materials and Minnesota Statutes, section
33.24	16C.073, regarding purchasing and using
33.25	paper stock and printing.
33.26 33.27	Subd. 16. Energy Conservation and Sustainable Building Guidelines
33.28	A recipient to whom an appropriation is made
33.29	under this section for a capital-improvement
33.30	project must ensure that the project complies
33.31	with the applicable energy conservation and
33.32	sustainable building guidelines and standards
33.33	contained in law, including Minnesota
33.34	Statutes, sections 16B.325, 216C.19, and
33.35	216C.20, and rules adopted under those
33.36	sections. The recipient may use the energy

34.1	planning, advocacy, and State Energy Office
34.2	units of the Department of Commerce to
34.3	obtain information and technical assistance
34.4	on energy conservation and alternative-energy
34.5	development relating to planning and
34.6	constructing the capital-improvement project.
34.7	Subd. 17. Accessibility
34.8	Structural and nonstructural facilities must
34.9	meet the design standards in the Americans
34.10	with Disabilities Act (ADA) accessibility
34.11	guidelines.
34.12	Subd. 18. Carryforward; Extension
34.13	(a) The availability of the appropriations for
34.14	the following projects are extended to June
34.15	<u>30, 2019:</u>
34.16	(1) Laws 2014, chapter 226, section 2,
34.17	subdivision 6, paragraph (j), Dredged
34.18	Sediment for Forest Restoration on
34.19	<u>Unproductive Minelands;</u>
34.20	(2) Laws 2014, chapter 226, section 2,
34.21	subdivision 7, paragraph (b), Metropolitan
34.22	Regional Park System Acquisition, as
34.23	extended by Laws 2017, chapter 96, section
34.24	2, subdivision 18, paragraph (a), clause (5);
34.25	(3) Laws 2015, chapter 76, section 2,
34.26	subdivision 6, paragraph (d), Preventing New
34.27	Disease of Pines in Minnesota;
34.28	(4) Laws 2015, chapter 76, section 2,
34.29	subdivision 9, paragraph (d), Native Prairie
34.30	Stewardship and Prairie Bank Easement
34.31	Acquisition;
34.32	(5) Laws 2015, chapter 76, section 2,
34.33	subdivision 10, Emerging Issues Account; and

11/29/17	ATTORNEY	CKM	LCCMR
(6) Laws 2016, chapter 186, section 2,			
subdivision 9, paragraph (g), Otter Tail	<u>River</u>		

35.1	(6) Laws 2016, chapter 186, section 2,	
35.2	subdivision 9, paragraph (g), Otter Tail River	
35.3	Recreational Trail Acquisition.	
35.4	(b) The availability of the appropriations for	
35.5	the following projects are extended to June	
35.6	<u>30, 2020:</u>	
35.7	(1) Laws 2015, chapter 76, section 2,	
35.8	subdivision 9, paragraph (b), Metropolitan	
35.9	Regional Park System Land Acquisition –	
35.10	Phase IV;	
35.11	(2) Laws 2016, chapter 186, section 2,	
35.12	subdivision 10, paragraph (b), Grant	
35.13	Management System; and	
35.14	(3) Laws 2017, chapter 96, section 2,	
35.15	subdivision 6, paragraph (d), Adapting Stream	
35.16	Barriers to Remove Common Carp.	
35.17	(c) The availability of the appropriation under	
35.18	Laws 2017, chapter 96, section 2, subdivision	
35.19	8, paragraph (1), Conservation Reserve	
35.20	Enhancement Program (CREP), is extended	
35.21	to June 30, 2022.	
35.22	(d) The availability of the appropriation under	
35.23	Laws 2017, chapter 96, section 2, subdivision	
35.24	3, paragraph (n), Pollinator Research and	
35.25	Outreach, is extended to June 30, 2023.	
35.26	Sec. 3. Laws 2015, chapter 76, section 2, subdivision 9, is amended to read:	
35.27	Subd. 9. Land Acquisition for Habitat and	
35.28	Recreation 14,190,000	-0
35.29	(a) State Parks and Trails Land	
35.30	Acquisitions	
35.31	\$1,500,000 the first year is from the trust fund	
35.32	to the commissioner of natural resources to	

acquire at least 335 acres for authorized state

35.33

11/29/17	ATTORNEY	CKM	LCCMR

36.1	trails and critical parcels within the statutory
36.2	boundaries of state parks. State park land
36.3	acquired with this appropriation must be
36.4	sufficiently improved to meet at least
36.5	minimum management standards, as
36.6	determined by the commissioner of natural
36.7	resources. A list of proposed acquisitions must
36.8	be provided as part of the required work plan.
36.9	This appropriation is available until June 30,
36.10	2018, by which time the project must be
36.11	completed and final products delivered.
36.12	(b) Metropolitan Regional Park System
36.13	Land Acquisition - Phase IV
26.14	\$1,000,000 the first year is from the trust fund
36.14	\$1,000,000 the first year is from the trust fund to the Metropolitan Council for grants to
36.15	acquire at least 133 acres of lands within the
36.16 36.17	approved park unit boundaries of the
36.17	metropolitan regional park system. This
36.19	appropriation may not be used to purchase
	habitable residential structures. A list of
36.20	
36.21	proposed fee title and easement acquisitions
36.22	must be provided as part of the required work plan. This appropriation must be matched by
36.23 36.24	at least 40 percent of nonstate money that must
36.25	be committed by December 31, 2015, or the
36.26	appropriation cancels. This appropriation is
36.27	available until June 30, 2018, by which time
36.28	the project must be completed and final
36.29	products delivered.
30.29	products derivered.
36.30	(c) SNA Acquisition, Restoration,
36.31	Enhancement, and Public Engagement
36.32	\$4,000,000 the first year is from the trust fund
36.33	to the commissioner of natural resources to
36.34	acquire at least 350 acres of lands with
36.35	high-quality native plant communities and rare

37.1	features to be established as scientific and
37.2	natural areas as provided in Minnesota
37.3	Statutes, section 86A.05, subdivision 5, restore
37.4	and improve at least 550 acres of scientific
37.5	and natural areas, and provide technical
37.6	assistance and outreach. A list of proposed
37.7	acquisitions must be provided as part of the
37.8	required work plan. Land acquired with this
37.9	appropriation must be sufficiently improved
37.10	to meet at least minimum management
37.11	standards, as determined by the commissioner
37.12	of natural resources. This appropriation is
37.13	available until June 30, 2018, by which time
37.14	the project must be completed and final
37.15	products delivered.
37.16	(d) Native Prairie Stewardship and Prairie
37.17	Bank Easement Acquisition
37.1737.18	Bank Easement Acquisition \$3,325,000 the first year is from the trust fund
	-
37.18	\$3,325,000 the first year is from the trust fund
37.18 37.19	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to
37.18 37.19 37.20	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at
37.18 37.19 37.20 37.21	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property
37.18 37.19 37.20 37.21 37.22	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000
37.18 37.19 37.20 37.21 37.22 37.23	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide
37.18 37.19 37.20 37.21 37.22 37.23 37.24	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this
37.18 37.19 37.20 37.21 37.22 37.23 37.24 37.25	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be
37.18 37.19 37.20 37.21 37.22 37.23 37.24 37.25 37.26	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be deposited in a conservation easement
37.18 37.19 37.20 37.21 37.22 37.23 37.24 37.25 37.26 37.27	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be deposited in a conservation easement stewardship account. Deposits into the
37.18 37.19 37.20 37.21 37.22 37.23 37.24 37.25 37.26 37.27	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be deposited in a conservation easement stewardship account. Deposits into the conservation easement stewardship account
37.18 37.19 37.20 37.21 37.22 37.23 37.24 37.25 37.26 37.27 37.28 37.29	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be deposited in a conservation easement stewardship account. Deposits into the conservation easement stewardship account must be made upon closing on conservation
37.18 37.19 37.20 37.21 37.22 37.23 37.24 37.25 37.26 37.27 37.28 37.29 37.30	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be deposited in a conservation easement stewardship account. Deposits into the conservation easement stewardship account must be made upon closing on conservation easements or at a time otherwise approved in
37.18 37.19 37.20 37.21 37.22 37.23 37.24 37.25 37.26 37.27 37.28 37.29 37.30 37.31	\$3,325,000 the first year is from the trust fund to the commissioner of natural resources to acquire native prairie bank easements on at least 675 acres, prepare baseline property assessments, restore and enhance at least 1,000 acres of native prairie sites, and provide technical assistance to landowners. Of this amount, up to \$135,000 \$195,000 must be deposited in a conservation easement stewardship account. Deposits into the conservation easement stewardship account must be made upon closing on conservation easements or at a time otherwise approved in the work plan. A list of proposed easement

products delivered. 38.2 (e) Metro Conservation Corridors - Phase 38.3 VIII Coordination, Mapping, and 38.4 **Conservation Easements** 38.5 \$515,000 the first year is from the trust fund 38.6 to the commissioner of natural resources for 38.7 an agreement with the Minnesota Land Trust 38.8 for Phase VIII of the Metro Conservation 38.9 38.10 Corridors partnership to provide coordination and mapping for the partnership and to acquire 38.11 permanent conservation easements on at least 38.12 120 acres of strategic ecological landscapes 38.13 to protect priority natural areas in the 38.14 metropolitan area, as defined under Minnesota 38.15 Statutes, section 473.121, subdivision 2, and 38.16 portions of the surrounding counties. A list of 38.17 proposed easement acquisitions must be 38.18 provided as part of the required work plan. 38.19 Land acquired with this appropriation must 38.20 be sufficiently improved to meet at least 38.21 minimum management standards, as 38.22 determined by the commissioner of natural 38.23 resources. Expenditures are limited to the 38.24 identified project corridor areas as defined in 38.25 the work plan. Up to \$40,000 may be used for 38.26 coordination and mapping for the Metro 38.27 Conservation Corridors. All conservation 38.28 easements must be perpetual and have a 38.29 natural resource management plan. A list of 38.30 proposed easement acquisitions must be 38.31 provided as part of the required work plan. 38.32 This appropriation is available June 30, 2018, 38.33 by which time the project must be completed 38.34 and final products delivered. 38.35

the project must be completed and final

38.1

11/29/17	ATTORNEY	CKM	LCCMR

39.2	VIII Strategic Lands Protection
39.3	\$750,000 the first year is from the trust fund
39.4	to the commissioner of natural resources for
39.5	an agreement with The Trust for Public Land
39.6	for Phase VIII of the Metro Conservation
39.7	Corridors partnership to acquire in fee at least
39.8	35 acres of high-quality priority state and local
39.9	natural areas in the metropolitan area, as
39.10	defined under Minnesota Statutes, section
39.11	473.121, subdivision 2, and portions of the
39.12	surrounding counties. A list of proposed
39.13	acquisitions must be provided as part of the
39.14	required work plan. Land acquired with this
39.15	appropriation must be sufficiently improved
39.16	to meet at least minimum management
39.17	standards, as determined by the commissioner
39.18	of natural resources. Expenditures are limited
39.19	to the identified project corridor areas as
39.20	defined in the work plan. This appropriation
39.21	may not be used to purchase habitable
39.22	residential structures, unless expressly
39.23	approved in the work plan. A list of fee title
39.24	acquisitions must be provided as part of the
39.25	required work plan. This appropriation is
39.26	available until June 30, 2018, by which time
39.27	the project must be completed and final
39.28	products delivered.
39.29	(g) Metro Conservation Corridors - Phase
39.30	VIII Priority Expansion of Minnesota
39.31	Valley National Wildlife Refuge
39.32	\$500,000 the first year is from the trust fund
39.33	to the commissioner of natural resources for
39.34	an agreement with the Minnesota Valley
39.35	National Wildlife Refuge Trust, Inc. for Phase

(f) Metro Conservation Corridors - Phase

39.1

40.1	VIII of the Metro Conservation Corridors
40.2	partnership to acquire in fee at least 100 acres
40.3	of priority habitat for the Minnesota Valley
40.4	National Wildlife Refuge in the metropolitan
40.5	area, as defined under Minnesota Statutes,
40.6	section 473.121, subdivision 2, and portions
40.7	of the surrounding counties. A list of proposed
40.8	acquisitions must be provided as part of the
40.9	required work plan. Land acquired with this
40.10	appropriation must be sufficiently improved
40.11	to meet at least minimum management
40.12	standards. Expenditures are limited to the
40.13	identified project corridor areas as defined in
40.14	the work plan. This appropriation may not be
40.15	used to purchase habitable residential
40.16	structures, unless expressly approved in the
40.17	work plan. This appropriation is available until
40.18	June 30, 2018, by which time the project must
40.19	be completed and final products delivered.
40.20	(h) Metro Conservation Corridors - Phase
40.21	VIII Wildlife Management Area
40.22	Acquisition
	S
40.22	Acquisition
40.22 40.23	Acquisition \$400,000 the first year is from the trust fund
40.22 40.23 40.24	Acquisition \$400,000 the first year is from the trust fund to the commissioner of natural resources for
40.22 40.23 40.24 40.25	Acquisition \$400,000 the first year is from the trust fund to the commissioner of natural resources for Phase VIII of the Metro Conservation
40.22 40.23 40.24 40.25 40.26	Acquisition \$400,000 the first year is from the trust fund to the commissioner of natural resources for Phase VIII of the Metro Conservation Corridors partnership to acquire in fee at least
40.22 40.23 40.24 40.25 40.26 40.27	Acquisition \$400,000 the first year is from the trust fund to the commissioner of natural resources for Phase VIII of the Metro Conservation Corridors partnership to acquire in fee at least 82 acres along the lower reaches of the
40.22 40.23 40.24 40.25 40.26 40.27 40.28	\$400,000 the first year is from the trust fund to the commissioner of natural resources for Phase VIII of the Metro Conservation Corridors partnership to acquire in fee at least 82 acres along the lower reaches of the Vermillion River in Dakota County within the
40.22 40.23 40.24 40.25 40.26 40.27 40.28 40.29	\$400,000 the first year is from the trust fund to the commissioner of natural resources for Phase VIII of the Metro Conservation Corridors partnership to acquire in fee at least 82 acres along the lower reaches of the Vermillion River in Dakota County within the Gores Pool Wildlife Management Area. Land
40.22 40.23 40.24 40.25 40.26 40.27 40.28 40.29	\$400,000 the first year is from the trust fund to the commissioner of natural resources for Phase VIII of the Metro Conservation Corridors partnership to acquire in fee at least 82 acres along the lower reaches of the Vermillion River in Dakota County within the Gores Pool Wildlife Management Area. Land acquired with this appropriation must be
40.22 40.23 40.24 40.25 40.26 40.27 40.28 40.29 40.30 40.31	\$400,000 the first year is from the trust fund to the commissioner of natural resources for Phase VIII of the Metro Conservation Corridors partnership to acquire in fee at least 82 acres along the lower reaches of the Vermillion River in Dakota County within the Gores Pool Wildlife Management Area. Land acquired with this appropriation must be sufficiently improved to meet at least
40.22 40.23 40.24 40.25 40.26 40.27 40.28 40.29 40.30 40.31 40.32	\$400,000 the first year is from the trust fund to the commissioner of natural resources for Phase VIII of the Metro Conservation Corridors partnership to acquire in fee at least 82 acres along the lower reaches of the Vermillion River in Dakota County within the Gores Pool Wildlife Management Area. Land acquired with this appropriation must be sufficiently improved to meet at least minimum management standards. This

41.1	appropriation is available until June 30, 2018,
41.2	by which time the project must be completed
41.3	and final products delivered.
41.4	(i) Mesabi Trail Development Soudan to
41.5	Ely - Phase II
41.6	\$1,000,000 the first year is from the trust fund
41.7	to the commissioner of natural resources for
41.8	an agreement with the St. Louis and Lake
41.9	Counties Regional Railroad Authority for the
41.10	right-of-way acquisition, design, and
41.11	construction of segments of the Mesabi Trail,
41.12	totaling approximately seven miles between
41.13	Soudan and Ely. This appropriation is
41.14	available until June 30, 2018, by which time
41.15	the project must be completed and final
41.16	products delivered.
41.17	(j) Multi-benefit Watershed Scale
41.18	Conservation on North Central Lakes
41.19	\$950,000 the first year is from the trust fund
41.20	to the Board of Water and Soil Resources to
41.21	secure permanent conservation easements on
41.22	at least 480 acres of high-quality habitat in
41.23	Crow Wing and Cass Counties. Of this
41.24	amount, up to \$65,000 must be deposited in a
41.25	conservation easement stewardship account;
41.26	and \$54,000 is for an agreement with the
41.27	Leech Lake Area Watershed Foundation in
41.28	cooperation with Crow Wing County Soil and
41.29	Water Conservation District and Cass County
41.30	Soil and Water Conservation District. Deposits
41.31	into the conservation easement stewardship
41.32	account must be made upon closing on
41.33	conservation easements or at a time otherwise
41.34	approved in the work plan. A list of proposed
41.35	easement acquisitions must be provided as

11/29/17	ATTORNEY	CKM	LCCMR

42.1	part of the required work plan. This			
42.2	appropriation is available until June 3	0, 2018,		
42.3	by which time the project must be con	mpleted		
42.4	and final products delivered.			
42.5	(k) Conservation Easement Assessm	ent and		
42.6	Valuation System Development			
42.7	\$250,000 the first year is from the tru	ıst fund		
42.8	to the Board of Regents of the Univer	rsity of		
42.9	Minnesota to assess the effectiveness	of		
42.10	existing conservation easements acqu	iired		
42.11	through state expenditures at achieving	ng their		
42.12	intended outcomes of public value an	ıd		
42.13	ecological benefits and to develop a			
42.14	standardized, objective conservation e	asement		
42.15	valuation system for guiding future st	tate		
42.16	investments in conservation easemen	ts to		
42.17	ensure the proposed environmental be	enefits		
42.18	are being achieved in a cost-effective	manner.		
42.19	This appropriation is available until J	une 30,		
42.20	2018, by which time the project must	be		
42.21	completed and final products delivered	ed.		
42.22	Sec. 4. Laws 2017, chapter 96, sect	ion 2 subdivision	n 8 is amended to rea	ıd.
	•	1011 2, 54041 (15101	10, 15 amended to 100	id.
42.23 42.24	Subd. 8. Methods to Protect or Restore Land, Water, and			
42.25	Habitat	2,729,000	16,554,000	5,000,000
42.26 42.27	(a) Optimizing the Nutrition of Roa for Pollinators	dside Plants		
42.28	\$815,000 the first year is from the tru	ıst fund		
42.29	to the Board of Regents of the Univer	rsity of		
42.30	Minnesota in cooperation with the			
42.31	Departments of Agriculture, Natural			
42.32	Resources, and Transportation and th	e Board		
42.33	of Water and Soil Resources to produ	ice		
42.34	site-specific recommendations for roa	adside		
42.35	plantings in Minnesota to maximize t	the		

43.1	nutritional health of native bees and monarch
43.2	butterflies that rely on roadside habitat
43.3	corridors. This appropriation is available until
43.4	June 30, 2020, by which time the project must
43.5	be completed and final products delivered.
43.6 43.7	(b) Promoting Conservation Biocontrol of Beneficial Insects
43.8	\$400,000 the first year is from the trust fund
43.9	to the Board of Regents of the University of
43.10	Minnesota to research integrated pest
43.11	management strategies, including insecticide
43.12	alternatives, and overwintering habitat sites
43.13	to conserve beneficial insects, including bees,
43.14	butterflies, and predator insects. The integrated
43.15	pest management strategies will be used to
43.16	develop best management practices to increase
43.17	pollinator and beneficial insect diversity and
43.18	abundance in various restored habitats. This
43.19	appropriation is available until June 30, 2020,
43.20	by which time the project must be completed
43.21	and final products delivered.
43.22 43.23	(c) Evaluating the Use of Bison to Restore and Preserve Savanna Habitat
43.24	\$388,000 the first year is from the trust fund
43.25	to the Board of Regents of the University of
43.26	Minnesota, Cedar Creek Ecosystem Science
43.27	Reserve, to research combined bison grazing
43.28	and fire management strategies to restore
43.29	Minnesota's oak savanna ecosystems. This
43.30	appropriation is available until June 30, 2020,
43.31	by which time the project must be completed
43.32	and final products delivered.
43.33	(d) State Park Pollinator Habitat Restoration
43.34	\$672,000 the first year is from the trust fund
43.35	to the commissioner of natural resources to

11/29/17	ATTORNEY	CKM	LCCMR

44.1	and other native pollinator habitats in at least
44.2	seven state parks in the Minnesota Prairie
44.3	Conservation Plan core areas and establish
44.4	pollinator plantings and interpretive exhibits
44.5	in at least ten state parks. This appropriation
44.6	is available until June 30, 2021, by which time
44.7	the project must be completed and final
44.8	products delivered.
44.9 44.10	(e) Enhancing Spawning Habitat Restoration in Minnesota Lakes
44.11	\$294,000 the first year is from the trust fund
44.12	to the Board of Regents of the University of
44.13	Minnesota, St. Anthony Falls Laboratory, in
44.14	cooperation with the Department of Natural
44.15	Resources to enhance efforts to increase
44.16	natural reproduction of fish in Minnesota lakes
44.17	by assessing wave energy impacts on
44.18	near-shore spawning habitat. This
44.19	appropriation is available until June 30, 2020,
44.20	by which time the project must be completed
44.21	and final products delivered.
44.22 44.23	(f) Prescribed-Fire Management for Roadside Prairies
44.24	\$345,000 the first year is from the trust fund
44.25	to the commissioner of transportation to
44.26	enhance the prescribed-fire program to manage
44.27	roadsides to protect and increase biodiversity
44.28	and pollinator habitat. This appropriation is
44.29	available until June 30, 2020, by which time
44.30	the project must be completed and final
44.31	products delivered.
44.32 44.33	(g) Minnesota Bee and Beneficial Species Habitat Restoration
44.34	\$732,000 the first year is from the trust fund
44.35	to the commissioner of natural resources for
44.36	an agreement with Pheasants Forever in

45.1	cooperation with the University of Minnesota
45.2	and the Minnesota Honey Producers
45.3	Association to restore approximately 800 acres
45.4	of permanently protected land to enhance bee,
45.5	butterfly, beneficial insect, and grassland bird
45.6	habitats. This appropriation is available until
45.7	June 30, 2021, by which time the project must
45.8	be completed and final products delivered.
45.9 45.10 45.11	(h) Mississippi and Vermillion Rivers Restoration of Prairie, Savanna, and Forest Habitat - Phase X
45.12	\$213,000 the first year is from the trust fund
45.13	to the commissioner of natural resources for
45.14	an agreement with Friends of the Mississippi
45.15	River for continued implementation of the
45.16	Metro Conservation Corridors partnership by
45.17	improving at least 80 acres of habitat at
45.18	approximately seven sites along the
45.19	Mississippi River and Vermillion River
45.20	corridors. Expenditures are limited to the
45.21	identified project corridor areas as defined in
45.22	the work plan. A list of proposed restoration
45.23	sites must be provided as part of the required
45.24	work plan. Plant and seed materials must
45.25	follow the Board of Water and Soil Resources'
45.26	native vegetation establishment and
45.27	enhancement guidelines. This appropriation
45.28	is available until June 30, 2020, by which time
45.29	the project must be completed and final
45.30	products delivered.
45.31 45.32	(i) Community Stewardship to Restore Urban Natural Resources - Phase X
45.33	\$524,000 the first year is from the trust fund
45.34	to the commissioner of natural resources for
45.35	an agreement with Great River Greening to
45.36	work with volunteers for continued
45.37	implementation of the Metro Conservation

46.1	Corridors partnership to restore approximately
46.2	250 acres of forest, prairie, woodland, wetland,
46.3	and shoreline throughout the greater Twin
46.4	Cities metropolitan area. Expenditures are
46.5	limited to the identified project corridor areas
46.6	as defined in the work plan. A list of proposed
46.7	restoration sites and evaluations must be
46.8	provided as part of the required work plan.
46.9	Plant and seed materials must follow the Board
46.10	of Water and Soil Resources' native vegetation
46.11	establishment and enhancement guidelines.
46.12	This appropriation is available until June 30,
46.13	2020, by which time the project must be
46.14	completed and final products delivered.
46.15 46.16	(j) Economic Assessment of Precision Conservation and Agriculture
46.17	\$400,000 the first year is from the trust fund
46.18	to the commissioner of natural resources for
46.19	an agreement with Pheasants Forever to
46.20	demonstrate a new approach to promote
46.21	conservation practices utilizing
46.22	return-on-investment analysis and identifying
46.23	revenue-negative acres on agricultural land to
46.24	assist farmers in implementing conservation
46.25	practices that will provide environmental and
46.26	economic benefits. This appropriation is
46.27	available until June 30, 2020, by which time
46.28	the project must be completed and final
46.29	products delivered.
46.30 46.31	(k) Conservation Reserve Enhancement Program (CREP) Outreach and Implementation
46.32	\$6,000,000 the first year is from the trust fund
46.33	to the Board of Water and Soil Resources to
46.34	fund staff at soil and water conservation
46.35	districts to assist landowners participating in
46.36	the federal Conservation Reserve

47.1	Enhancement Program. This appropriation is
47.2	contingent upon receipt of federal funds for
47.3	implementation. This appropriation is
47.4	available until June 30, 2020, by which time
47.5	the project must be completed and final
47.6	products delivered.
47.7 47.8	(l) Conservation Reserve Enhancement Program (CREP)
47.9	\$2,729,000 in fiscal year 2017 and \$5,771,000
47.10	the first year and \$5,000,000 the second year
47.11	are from the trust fund to the Board of Water
47.12	and Soil Resources to acquire permanent
47.13	conservation easements and restore land under
47.14	Minnesota Statutes, section 103F.515. Of this
47.15	amount, up to \$2,184,000 is for establishing
47.16	a monitoring and enforcement fund as
47.17	approved in the work plan and subject to
47.18	Minnesota Statutes, section 103B.103. This
47.19	work may be done in cooperation with the
47.20	federal Conservation Reserve Enhancement
47.21	Program. This appropriation is available until
47.22	June 30, 2021, by which time the project must
47.23	be completed and final products delivered.