

Environment & Natural Resources Trust Fund; FY2023 Appropriations

	subd	subd ref	Project Title	SF4036 as Introduced	Westrom 4043DE	Change from Intro
5	Subd. 3 - Foundational Natural Resource Data and Information			\$ 9,727,000	\$ 5,491,000	
6		3a	Efficacy of Urban Archery Hunting to Manage Deer	\$ 201,000	\$ 201,000	\$ -
7		3b	Improving Golden-Winged Warbler Conservation and Habitat Restoration	\$ 197,000	\$ 197,000	\$ -
8			Enhancing Natural Resource Conservation through Species Distribution Modeling	\$ 200,000	\$ -	\$ (200,000)
9			Modernizing Minnesota's Digital Lake Inventory	\$ 535,000	\$ -	\$ (535,000)
10		3c	Strategic Framework to Guide Local Water Storage Implementation	\$ 200,000	\$ 200,000	\$ -
11			How Do Prescribed Fires affect Native Prairie Bees?	\$ 278,000	\$ -	\$ (278,000)
12		3d	Status of Minnesota Blueberries and Relatives	\$ 191,000	\$ 191,000	\$ -
13		3e	Distribution and Movements of Fishers in Southern Minnesota	\$ 212,000	\$ 212,000	\$ -
14			Offal Wildlife Watching: How Do Hunters Provision Scavengers?	\$ 372,000	\$ -	\$ (372,000)
15			Land-Use and Climate Impacts on Minnesota's Whitewater River	\$ 199,000	\$ -	\$ (199,000)
16		3f	Protecting Minnesota's Spruce-Fir Forests from Tree-Killing Budworm	\$ 189,000	\$ 189,000	\$ -
17		3g	Restoration of Eastern Hemlock; Minnesota's Endangered Tree Species	\$ 199,000	\$ 199,000	\$ -
18		3h	Maximizing Lowland Conifer Ecosystem Services: Phase 2	\$ 315,000	\$ 315,000	\$ -
19		3i	Establishing a Center for Prion Research and Outreach	\$ 3,528,000	\$ 3,000,000	\$ (528,000)
20			Native Plant Community Data in City of Duluth	\$ 198,000	\$ -	\$ (198,000)
21			Neonicotinoid Impacts on Minnesota Deer and Prairie Chickens	\$ 700,000	\$ -	\$ (700,000)
22			Expanding the Minnesota Ecological Monitoring Network	\$ 472,000	\$ -	\$ (472,000)
23			Minnesota Biodiversity Atlas - Phase 3	\$ 356,000	\$ -	\$ (356,000)
24		3j	Sweetening the Crop: Perennial Flax for Ecosystem Benefits	\$ 490,000	\$ 490,000	\$ -

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25		3k	Beavers, Trees and Climate - Increasing Floodplain Forest Resilience	\$ 297,000	\$ 297,000	\$ -
26			What's Causing Declines in Black Bear Reproduction	\$ 398,000	\$ -	\$ (398,000)
27			Chronic Wasting Disease Prion Soil Research	\$ -	\$ -	\$ -
28	Subd. 4 - Water Resources			\$ 5,757,000	\$ 3,744,000	
29		4a	Scaling a Market-Driven Water-Quality Solution for Row-Crop Farming	\$ 476,000	\$ 476,000	\$ -
30		4b	Destruct Per/Polyfluoroalkyl Substances (PFAS) in Landfill Leachates	\$ 200,000	\$ 200,000	\$ -
31		4c	High Temperature Anaerobic Digestion of Sewage Sludge	\$ 208,000	\$ 208,000	\$ -
32			Evaluating Locally Sourced BIOCHAR for Restoring Impaired Waterbodies	\$ 200,000	\$ -	\$ (200,000)
33		4d	Mitigating Cyanobacterial Blooms and Toxins using Clay-Algae Flocculation	\$ 264,000	\$ 264,000	\$ -
34		4e	Changing Winters and Game Fish in Minnesota Lakes	\$ 200,000	\$ 200,000	\$ -
35		4f	Rainy River Drivers of Lake-of-the-Woods Algal Blooms	\$ 526,000	\$ 526,000	\$ -
36			Water and Climate Information to Enhance Community Resilience	\$ 355,000	\$ -	\$ (355,000)
37			Catch and Reveal: Discovering Unknown Fish Contamination Threats	\$ 201,000	\$ -	\$ (201,000)
38			Leveraging Data Analytics Innovations for Watershed District Planning	\$ 483,000	\$ -	\$ (483,000)
39		4g	Increased Intense Rain and Flooding in Minnesota's Watersheds	\$ 192,000	\$ 192,000	\$ -
40		4h	Removing CECs from Stormwater with Biofiltration	\$ 439,000	\$ 439,000	\$ -
41		4i	Is the Tire Chemical 6PPDq Killing Minnesota's Fish?	\$ 354,000	\$ 354,000	\$ -
42		4j	Mitigations Strategies for Agroplastic PFAS and Microplastic Contamination	\$ 169,000	\$ 169,000	\$ -
43		4k	Innovative Technology for PFAS Destruction in Drinking Water	\$ 350,000	\$ 350,000	\$ -
44			Salt Threatens Minnesota Water Quality and Fisheries	\$ 774,000	\$ -	\$ (774,000)

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45		4l	Emerging PFAS Contaminant Mitigation using Hybrid Engineered Wetlands	\$ 366,000	\$ 366,000	\$ -
46	Subd. 5 - Environmental Education			\$ 4,326,000	\$ 3,005,000	
47		5a	Teacher Field School: Stewardship through Nature-Based Education	\$ 310,000	\$ 310,000	\$ -
48		5b	Increasing K-12 Student Learning to Develop Environmental Awareness	\$ 1,368,000	\$ 1,000,000	\$ (368,000)
49		5c	Expanding Access to Wildlife Learning Bird by Bird	\$ 200,000	\$ 200,000	\$ -
50		5d	Engaging a Diverse Public in Environmental Stewardship	\$ 200,000	\$ 200,000	\$ -
51		5e	LCCMR Stories: Sharing Minnesota's Biggest Environmental Investment	\$ 411,000	\$ 200,000	\$ (211,000)
52		5f	Bugs Below Zero: Engaging Citizens in Winter Research	\$ 198,000	\$ 198,000	\$ -
53		5g	ESTEP (Earth Science Teacher Education Project)	\$ 317,000	\$ 317,000	\$ -
54		5h	YES! Students Take Action-Complete 80+Eco Projects	\$ 199,000	\$ 199,000	\$ -
55			North Shore Private Forestry Outreach Education and Implementation	\$ 221,000	\$ -	\$ (221,000)
56			Strengthening Watershed Stewardship through Outdoor Youth Education	\$ 200,000	\$ -	\$ (200,000)
57		5i	Increasing Diversity in Environmental Careers	\$ 182,000	\$ 182,000	\$ -
58			Partnering for Pollinator Protection	\$ 123,000	\$ -	\$ (123,000)
59			BioBlitzes Engaging Community in Scientific Efforts	\$ 198,000	\$ -	\$ (198,000)
60		5j	Diversity and Access to Wildlife Related Opportunities	\$ 199,000	\$ 199,000	\$ -
61	Subd. 6 - Aquatic and Terrestrial Invasive Species			\$ 4,674,000	\$ 4,174,000	
62		6a	Minnesota Invasive Terrestrial Plants and Pests Center	\$ 4,500,000	\$ 4,000,000	\$ (500,000)
63		6b	Purple Loosestrife Biocontrol Citizen Science Program	\$ 174,000	\$ 174,000	\$ -
64	Subd. 7 - Air Quality and Renewable Energy			\$ 1,754,000	\$ 1,253,000	

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65		7a	Using Minnesota Timber to Mitigate Landfill Methane Emissions	\$ 753,000	\$ 753,000	\$ -
66			How Do Lakes Influence Minnesota's Carbon Budget?	\$ 279,000	\$ -	\$ (279,000)
67		7b	Green Solar Cells from a Minnesota Natural Resource	\$ 552,000	\$ 330,000	\$ (222,000)
68		7c	Morris GHG Emissions Inventory and Mitigation Strategies	\$ 170,000	\$ 170,000	\$ -
69	Subd. 8 - Methods to Protect, Restore, and Enhance Land, Water, and H			\$ 14,987,000	\$ 10,861,000	
70		8a	Minnesota's Volunteer Rare Plant Conservation Corps	\$ 515,000	\$ 515,000	\$ -
71		8b	Conservation Corps Veterans Service Corps Program	\$ 1,339,000	\$ 1,339,000	\$ -
72		8c	Conservation Cooperative for Working Lands	\$ 1,500,000	\$ 750,000	\$ (750,000)
73			Pollinator Habitat Pilot Project at Closed Landfills	\$ 853,000	\$ -	\$ (853,000)
74			Creating Seed Collection of Early-Blooming Plants for Pollinators	\$ 200,000	\$ -	\$ (200,000)
75		8d	Root River Habitat Restoration Project	\$ 537,000	\$ 537,000	\$ -
76		8e	Hastings Lake Rebecca Park Area	\$ 1,200,000	\$ 1,200,000	\$ -
77			Connecting the Mississippi Flyway to Urban Open Space	\$ 175,000	\$ -	\$ (175,000)
78		8f	River Habitat Restoration and Recreation in Melrose	\$ 575,000	\$ 350,000	\$ (225,000)
79		8g	Restoring Forests and Savannas Using Silvopasture - Phase 2	\$ 414,000	\$ 414,000	\$ -
80			Minnesota Green Schoolyards	\$ 631,000	\$ -	\$ (631,000)
81			Pollinator Plantings and the Redistribution of Soil Toxins	\$ 384,000	\$ -	\$ (384,000)
82		8h	Mitigating the Effects of Visitor Use Patterns	\$ 310,000	\$ 310,000	\$ -
83		8i	PFAS Fungal-Woodchip Filtering System	\$ 189,000	\$ 189,000	\$ -
84		8j	Phytoremediation for Extracting Deicing Salt	\$ 365,000	\$ 365,000	\$ -

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85		8k	Mustinka River Fish and Wildlife Habitat Corridor Rehabilitation	\$ 2,692,000	\$ 2,692,000	\$ -
86		8l	Bohemian Flats Savanna Restoration	\$ 200,000	\$ 200,000	\$ -
87		8m	Watershed and Forest Restoration: What a Match!	\$ 2,908,000	\$ 2,000,000	\$ (908,000)
88	Subd. 9 - Land Acquisition, Habitat, and Recreation			\$ 29,140,000	\$ 26,646,000	
89		9a	Mesabi Trail: Wahlsten Road (CR 26) to Tower	\$ 1,307,000	\$ 1,307,000	\$ -
90		9b	The Missing Link: Gull Lake Trail, Fairview Township	\$ 1,394,000	\$ 1,394,000	\$ -
91		9c	Pierz Park and Campground Expansion Project	\$ 200,000	\$ 200,000	\$ -
92		9d	Redhead Mountain Bike Park	\$ 1,285,000	\$ 1,285,000	\$ -
93		9e	Environmental Learning Classroom with Trails	\$ 82,000	\$ 82,000	\$ -
94		9f	Local Parks, Trails and Natural Areas Grant Programs	\$ 3,400,000	\$ 4,000,000	\$ 600,000
95		9g	St. Louis River Re-Connect	\$ 1,200,000	\$ 1,200,000	\$ -
96		9h	Native Prairie Stewardship and Prairie Bank Easement Acquisition	\$ 942,000	\$ 500,000	\$ (442,000)
97		9i	Minnesota State Parks and State Trails Acquisitions	\$ 3,230,000	\$ 1,600,000	\$ (1,630,000)
98		9j	Silver Bay Multi-Modal Trailhead Project	\$ 1,650,000	\$ 1,650,000	\$ -
99		9k	Minnesota State Trails Development	\$ 6,022,000	\$ 6,022,000	\$ -
100		9l	Brookston Campground, Boat Launch and Outdoor Recreational Facility	\$ 453,000	\$ 453,000	\$ -
101		9m	Silver Lake Trail Connection	\$ 727,000	\$ 727,000	\$ -
102		9n	Preserving the Avon Hills with Reverse-Bidding Easements	\$ 1,604,000	\$ 1,604,000	\$ -
103		9o	Floodwood Campground Improvement Project	\$ 816,000	\$ 816,000	\$ -
104		9p	SNA Habitat Restoration, Public Engagement, and Protection	\$ 2,022,000	\$ 1,000,000	\$ (1,022,000)

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105		9q	Ranier Safe Harbor/Transient Dock Phase 2	\$ 1,113,000	\$ 1,113,000	\$ -
106		9r	Prospector ATV Trails	\$ 944,000	\$ 944,000	\$ -
107		9s	City of Biwabik Recreation Area	\$ 749,000	\$ 749,000	\$ -
108	Subd. 10 - Emerging Issues			\$ 384,000	\$ 15,575,000	
109		10a	Aggregate Mapping	\$ -	\$ 500,000	\$ 500,000
110		10b	Water Contamination Study	\$ -	\$ 200,000	\$ 200,000
111		10c	Conservation Planting; Living Snow Fences	\$ -	\$ 500,000	\$ 500,000
112		10d	Forest Inventory Data	\$ -	\$ 500,000	\$ 500,000
113		10e	CRP Incentives	\$ -	\$ 1,000,000	\$ 1,000,000
114		10f	Ditch Maintenance Grants	\$ -	\$ 500,000	\$ 500,000
115		10g	Pipeline Conservation Planting	\$ -	\$ 500,000	\$ 500,000
116		10h	Groundwater Database	\$ -	\$ 421,000	\$ 421,000
117		10i	DNR Drought Response - Replacing Tree Seedlings	\$ -	\$ 1,500,000	\$ 1,500,000
118		10j	Ring Dikes	\$ -	\$ 360,000	\$ 360,000
119		10k	Septic Grants	\$ -	\$ 2,000,000	\$ 2,000,000
120		10l	Healthy Soils Ag BMP's	\$ -	\$ 2,000,000	\$ 2,000,000
121		10m	Forever Green	\$ -	\$ 2,000,000	\$ 2,000,000
122		10n	Pig's Eye Task Force	\$ -	\$ 800,000	\$ 800,000
123		10o	State Aquaculture Plan	\$ -	\$ 100,000	\$ 100,000
124		10p	Noxious Weeds Prevention Grants	\$ -	\$ 1,000,000	\$ 1,000,000

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125		10q	Developing Markets for Continuous Living Cover Crops	\$ -	\$ 500,000	\$ 500,000
126		10r	Demonstration project for using MN Ethanol in diesel engines - reducing air emissions and carbon footprint	\$ -	\$ 800,000	\$ 800,000
127		10s	Veterinary Diagnostic Lab Equipment for Monitoring Wild Deer Herd Disease	\$ -	\$ 150,000	\$ 150,000
128		10t	Emerging Issues Account	\$ 384,000	\$ 244,000	\$ (140,000)
129	Subd. 11 - Administrative			\$ 132,000	\$ 132,000	
130		10a	ML 2022 Contract Agreement Reimbursement	\$ 132,000	\$ 132,000	\$ -
131	Bill Total			\$ 70,881,000	\$ 70,881,000	\$ -