

Environment and Natural Resources Trust Fund
Final Work Plan Review and Approvals - M.L. 2024 (FY 2025)-June 20, 2024

Line #	Direct or Pass Through	Organization	First Name	Last Name	Subd.	Proposal ID	Title	Funding Amount Appropriated	Work Plan Approval Notes and Contingencies	Project Impact Geography	Classified Staff	Fee Title Acquisition	Conservation Easement	Capital Expenditures	Easement Other	Requesting Reinvestment of Revenue	Peer Review Complete	Work Plan Approval Date
2	A. Consent Agenda - work plans accepted by staff with reasonable changes from original proposals																	
3	Direct	U of MN, Landscape Arboretum	David	Remucal	08a	2024-005	Long-Term Preservation of Minnesota's Ball Cactus Population	\$100,000		SW	No	No	No	No	No	No	n/a	
4	Pass Through	Minnesota Driftless Hiking Trail	Marty	Walsh	09a	2024-009	Minnesota Driftless Hiking Trail	\$426,000	A trail plan must be complete before money is used for trail construction. Before this appropriation is spent, a fiscal agent for Minnesota Driftless Hiking Trail must be approved in the work plan.	SE	No	No	No	No	No	No	n/a	
5	Pass Through	Minnesota Land Trust	Virginia	Breidenbach	03a	2024-014	Native Plant Community Data in the City of Duluth	\$198,000		NE	No	No	No	No	No	No	n/a	
6	Pass Through	City of Austin	Luke	Reese	05a	2024-015	Jay C. Hormel Nature Center Supplemental Teaching Staff	\$410,000		SE	No	No	No	No	No	No	n/a	
7	Pass Through	Voyageurs Conservancy	Breanna	Trygg	05b	2024-017	Connecting Communities to Voyageurs Classroom and Minnesota's National Park	\$994,000		Statewide	No	No	No	No	No	No	n/a	
8	Pass Through	Morrison Soil and Water Conservation District	Shannon	Wettstein	08b	2024-022	Morrison County Historical Society Streambank Stabilization and Restoration	\$519,000	For purposes of this appropriation, subdivision 13, paragraph (e), does not apply. The commissioner of natural resources may make reasonable amounts of this appropriation available on an advance basis to accommodate the Morrison Soil and Water Conservation District's cash-flow needs if a plan for the advances is approved as part of the work plan.	Central	No	No	No	No	No	No	n/a	
9	Direct	U of MN, College of Science and Engineering	Seth	Thompson	05c	2024-023	Supporting Minnesota Teachers to Implement Culturally Sustaining Environmental Education	\$295,000		Statewide	No	No	No	No	No	No	n/a	
10	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Robert	Blair	05d	2024-027	Phenology Investigations in Minnesota Schools	\$392,000		Statewide	No	No	No	No	No	No	n/a	
11	Direct	Minnesota Pollution Control Agency	Kelly	Amoth	05e	2024-028	Get the Lead Out: Lead-Free Fishing Tackle Education	\$254,000		Statewide	No	No	No	No	No	No	n/a	
12	Direct	Science Museum of Minnesota, St. Croix Watershed Research Station	Lienne	Sethna	03b	2024-036	Reconstructing Historical Wild Rice to Understand Its Future	\$200,000		Statewide	No	No	No	No	No	No	Yes	
13	Direct	U of MN, St. Anthony Falls Laboratory	Ardeshir	Ebtehaj	04a	2024-037	Hyperspectral Characterization of Toxic Harmful Algal Blooms	\$399,000		Statewide	No	No	No	Yes	No	No	Yes	
14	Pass Through	Better Futures Minnesota	Jason	Allen	07a	2024-039	Minimizing Minnesota's Landfill Problem by Expanding Waste Diversion	\$2,318,000	Net income generated by Better Futures Minnesota as part of this appropriation may be reinvested in the project if a plan for reinvestment is approved in the work plan.	Statewide	No	No	No	No	No	Yes	n/a	
15	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Marcella	Windmuller-Campione	08c	2024-045	Can Increased Tree Diversity Increase Community Diversity?	\$415,000		Central, NE, NW	No	No	No	No	No	No	Yes	
16	Direct	U of MN, College of Science and Engineering	Ardeshir	Ebtehaj	03d	2024-046	Fate of Minnesota's Lakes in the Next Century	\$453,000		Statewide	No	No	No	No	No	No	Yes	
17	Pass Through	Great River Greening	Todd	Rexine	07b	2024-049	Building Resilient Urban Forests for Climate Change	\$752,000		Central, Metro, SW	No	No	No	No	No	No	n/a	
18	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Grace	Wilson	04b	2024-057	Characterization of Chemicals in Structural Fire Wastewater	\$369,000		Statewide	No	No	No	No	No	No	Yes	
19	Direct	U of MN, Duluth - Sea Grant	Alexander	Frie	05f	2024-058	Water Science and Policy Fellowships for Minnesota	\$407,000		Statewide	No	No	No	No	No	No	n/a	
20	Pass Through	Minnesota Valley National Wildlife Refuge Trust Inc	Deborah	Loon	05g	2024-059	Mentoring Next Generation of Conservation Professionals - Phase 2	\$793,000		Statewide	No	No	No	No	No	No	n/a	
21	Direct	U of MN, College of Biological Sciences	James	Cotner	04c	2024-061	Climate Change and Management Effects on Methane Cycling in Lakes	\$540,000		Statewide	No	No	No	No	No	No	Yes	

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22	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Matthew	Petersen	03f	2024-063	Monitoring Minnesota's Insects: Connecting Habitat to Insect Prey	\$199,000		Central, NW	No	No	No	No	No	No	Yes	
23	Direct	MN DNR, State Parks and Trails Division	Jenni	Bubke	09b	2024-064	Local Parks, Trails, and Natural Areas Grant Programs	\$4,791,000	This appropriation is for local nature-based recreation, connections to regional and state natural areas, and recreation facilities and may not be used for athletic facilities such as sport fields, courts, and playgrounds.	Statewide	Yes	Yes	No	Yes	Yes	No	n/a	
24	Direct	Minnesota Pollution Control Agency	William (Bill)	Cole	03g	2024-068	Determining Ambient Background PFAS Concentrations in Minnesota Soils	\$621,000		Statewide	No	No	No	No	No	No	Yes	
25	Direct	MN DNR, Fish and Wildlife Division	Eric	Michel	03h	2024-071	Investigating Life History Characteristics of Minnesota Elk	\$933,000		Statewide	No	No	No	No	No	No	Yes	
26	Direct	MN DNR, Ecological and Water Resources Division	Gerda	Nordquist	03i	2024-072	Foundational Data for Moth and Butterfly Conservation	\$195,000		Statewide	No	No	No	No	No	No	n/a	
27	Direct	U of MN, College of Science and Engineering	Timothy	LaPara	04d	2024-073	Enhancing Wastewater Treatment through Genetic Sequencing	\$553,000		Statewide	No	No	No	Yes	No	No	Yes	
28	Direct	U of MN, WCROC	Eric	Buchanan	07c	2024-076	Improving Agricultural Ecosystems through Autonomous Weed Control	\$978,000		Statewide	No	No	No	Yes	No	No	n/a	
29	Pass Through	City of Woodbury	Heidi	Quinn	04e	2024-077	Improving Water Efficiency Programming with Measurable Outcomes	\$200,000		Woodbury	No	No	No	No	No	No	n/a	
30	Direct	MN DNR, Ecological and Water Resources Division	Vanessa	Baratta-Person	03j	2024-078	DNR County Groundwater Atlas	\$3,200,000		Statewide	Yes	No	No	No	No	No	n/a	
31	Pass Through	Parks & Trails Council of Minnesota	Brett	Feldman	09c	2024-081	Acquisition of State Park Inholdings	\$1,886,000		Statewide	No	Yes	No	No	No	No	n/a	
32	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Joseph	Bump	03k	2024-083	Voyageurs Wolf Project - Phase III	\$996,000		Statewide	No	No	No	No	No	No	Yes	
33	Direct	U of MN, College of Science and Engineering	William	Arnold	04f	2024-086	Fluorine Beyond PFAS: Pesticide and Pharmaceutical Degradation	\$400,000		Statewide	No	No	No	No	No	No	Yes	
34	Direct	U of MN, Duluth - NRRI	Michael	Joyce	03l	2024-088	Distribution and Population Status of Weasels in Minnesota	\$400,000		Statewide	No	No	No	No	No	No	n/a	
35	Direct	U of MN, MITPPC	Heather	Koop	06a	2024-089	Minnesota Invasive Terrestrial Plants and Pests Center - Phase 7	\$7,000,000	Authority for LCCMR staff to approve workplans for projects subsequently selected through the Center's RFP process and provided MITPPC conducts peer review of those projects in fulfillment of 116P.08.	Statewide	No	No	No	No	No	No	n/a	
36	Pass Through	City of Long Prairie	Ted	Gray	08d	2024-090	Restoration of Riverside Park	\$141,000		Central	No	No	No	No	No	No	n/a	
37	Pass Through	Belwin Conservancy	Hannah	Brithón	05h	2024-091	Restoring Land, Reviving Heritage: Indigenous Conservation - Phase 2	\$688,000		Metro	No	No	No	No	No	No	n/a	
38	Direct	MN DNR, Ecological and Water Resources Division	Judy	Elbert	09d	2024-092	Scientific and Natural Area (SNA) Biodiversity Protection	\$957,000		Statewide	Yes	Yes	No	No	No	No	n/a	
39	Direct	Metropolitan Council	Jessica	Lee	09e	2024-093	Metropolitan Regional Parks System Land Acquisition - Phase 8	\$3,000,000		Metro	No	Yes	No	No	Yes	No	n/a	
40	Pass Through	City of Oronoco	Jason	Baker	09f	2024-094	Zumbro River Regional Water Trail	\$170,000		SE	No	No	No	No	No	No	n/a	
41	Pass Through	Great River Greening	Rebecca	Tucker	08e	2024-096	Pollinator Central IV: Habitat Improvement with Public Engagement	\$698,000		Central, Metro	No	No	No	No	No	No	n/a	
42	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Vera	Krischik	06b	2024-097	Mitigating the Spread of Invasive Jumping Worms	\$470,000		Statewide	No	No	No	No	No	No	Yes	
43	Direct	U of MN, College of Biological Sciences	Satoshi	Ishii	07d	2024-098	Advanced Biofilter for N2O Removal	\$325,000		Statewide	No	No	No	Yes	No	No	n/a	
44	Pass Through	YMCA of the North	Beth	Becker	05i	2024-099	Unlocking Minnesota Wilderness for Youth	\$705,000		Statewide	No	No	No	No	No	No	n/a	

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45	Pass Through	Wilderness Inquiry	Meg	Krueger	05j	2024-100	Outdoor Pathways to Environmental Education, Recreation, and Careers	\$1,500,000		Statewide	No	No	No	Yes	No	No	n/a	
46	Pass Through	Audubon Minnesota	Dale	Gentry	08f	2024-103	Conservation Grazing for Birds, Beef, and Better Soil	\$342,000		Statewide	No	No	No	No	No	No	n/a	
47	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Brett	Barney	08g	2024-108	Minnesota Microbes for Enhanced Biodegradation of Microplastics	\$524,000		Statewide	No	No	No	No	No	No	Yes	
48	Pass Through	Osprey Wilds Environmental Learning Center	Bryan	Wood	05k	2024-111	Increasing Access to Environmental Education Youth Camps	\$163,000		Statewide	No	No	No	No	No	No	n/a	
49	Pass Through	Dakota County	Niki	Geister	09g	2024-113	Spring Lake Park Reserve Restoration and River Access	\$2,925,000		Metro	No	No	No	No	No	No	n/a	
50	Direct	MN DNR, Fish and Wildlife Division	Brian	Nerbonne	06c	2024-114	Implementing Innovative Techniques to Manage Low-Density Invasive Carp	\$634,000		Statewide	No	No	No	Yes	No	No	n/a	
51	Pass Through	Dodge Nature Center	Pete	Cleary	05l	2024-115	Launching Environmental Education at Shepard Farm	\$639,000		Dakota, Ramsey, Washington	No	No	No	No	No	No	n/a	
52	Direct	MN DNR, Grants Unit	Katherine	Sherman-Hoehn	10c	2024-117	2024 Contract Agreement Reimbursement	\$275,000		Statewide	No	No	No	No	No	No	n/a	
53	Pass Through	Prairie Woods Environmental Learning Center	Kalley	Pratt	05m	2024-129	YES! Students Step Up To Reduce Carbon Footprint	\$199,000		Statewide	No	No	No	No	No	No	n/a	
54	Direct	MN DNR, State Parks and Trails Division	Kent	Skaar	09h	2024-136	Minnesota State Trails Development	\$5,036,000		Statewide	No	No	No	Yes	No	No	n/a	
55	Pass Through	Friends of the Boundary Waters Wilderness	Bree	Sikorski	05n	2024-139	The Boundary Waters is Our Backyard	\$500,000		NE	No	No	No	No	No	No	n/a	
56	Direct	MN DNR, Ecological and Water Resources Division	Holly	Bernardo	03m	2024-150	Improving Aquatic Plant Knowledge for Healthy Waters	\$198,000		Aitkin, Big Stone, Carver, Cass,	Yes	No	No	No	No	No	n/a	
57	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Amanda	Farris	07e	2024-153	Managing Future Floods and Droughts in Minnesota	\$460,000		Statewide	No	No	No	No	No	No	n/a	
58	Direct	U of MN, Duluth - NRRI	Ron	Moен	03n	2024-158	New Small Mammal Monitoring Methods for Minnesota	\$199,000		Statewide	No	No	No	No	No	No	n/a	
59	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bo	Hu	04g	2024-161	Novel Nutrient Recovery Process from Wastewater Treatment Plants	\$486,000		Statewide	No	No	No	No	No	No	n/a	
60	Direct	U of MN, Duluth - NRRI	Ron	Moен	03o	2024-163	Status of Bats and Roost Trees after White-Nose Syndrome	\$195,000		Central, Metro, NE, NW, SE	No	No	No	No	No	No	n/a	
61	Direct	U of MN, Humphrey School of Public Affairs	Bonnie	Keeler	04h	2024-164	Visitor Perceptions of Water Quality to Aid Lake Management	\$379,000		Statewide	No	No	No	No	No	No	Yes	
62	Pass Through	Northern Community Radio, Inc.	Sarah	Bignall	05o	2024-168	Season Watch: Cultivating Young Naturalists with Phenology Education	\$180,000		Statewide	No	No	No	No	No	No	n/a	
63	Pass Through	Dakota County	Tom	Lewanski	08h	2024-170	Completing the Mississippi River Greenway: Dakota County	\$657,000		Metro	No	No	No	Yes	No	Yes	n/a	
64	Direct	U of MN, College of Biological Sciences	Mingzi	Xu	03p	2024-172	Sublethal Effects of Pesticides on the Invertebrate Community	\$387,000		Statewide	No	No	No	No	No	No	Yes	
65	Direct	U of MN, Duluth - NRRI	Christopher	Filstrup	04i	2024-173	Wildfire Impacts on Mercury Cycling in Wilderness Lakes	\$297,000		Statewide	No	No	No	No	No	No	Yes	
66	Pass Through	City of Babbitt	Rebecca	Jaeger	09i	2024-174	Birch Lake Marina Design	\$197,000		Statewide	No	No	No	No	No	No	n/a	
67	Direct	U of MN, College of Biological Sciences	Romas	Kazlauskas	08i	2024-175	Enabling Nature to Destroy Environmental PFAS Contaminants	\$378,000		Statewide	No	No	No	No	No	No	Yes	
68	Direct	U of MN, Crookston	Timothy	Dudley	05p	2024-177	Rural Minnesota Mobile Lab: Environmental-Focused Earth Science Education	\$459,000		Statewide	No	No	No	Yes	No	No	n/a	
69	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Elena	West	08j	2024-185	Bioacoustics for Species Monitoring and Conservation - Phase 2	\$568,000		Statewide	No	No	No	No	No	No	n/a	

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70	Direct	MN DNR, Ecological and Water Resources Division	Bruce	Carlson	03q	2024-186	Modernizing Minnesota's Plant Community Classification and Field Guides	\$1,800,000	Net income generated as part of this appropriation may be reinvested in the project if a plan for reinvestment is approved in the work plan.	Statewide	Yes	No	No	No	No	Yes	n/a	
71	Pass Through	Deep Portage Learning Center	Lindsay	Bjorklund	05q	2024-188	Increasing Accessibility of Environmental Education at Deep Portage	\$228,000		Statewide	No	No	No	Yes	No	No	n/a	
72	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Roger	Ruan	08k	2024-189	Preventing PFAS and Microplastics Contaminants across Minnesota	\$656,000		Statewide	No	No	No	No	No	No	Yes	
73	Direct	Minnesota Zoological Garden	Erik	Runquist	03r	2024-192	Assessing Prairie Health to Inform Pollinator Conservation	\$297,000		Central, Metro, NW, SE, SW	Yes	No	No	No	No	No	n/a	
74	Direct	U of MN, Duluth	Alec	Lackmann	03s	2024-193	Understanding Native Fishes in the Bowfishing Era	\$588,000		Statewide	No	No	No	Yes	No	No	Yes	
75	Direct	U of MN, College of Veterinary Medicine	Declan	Schroeder	06d	2024-198	Early Detection of Invasive Viruses in Native Pollinators	\$200,000		Statewide	No	No	No	No	No	No	Yes	
76	Direct	Minnesota State Colleges and Universities, Minnesota State University Mankato	Kimberly	Musser	05r	2024-200	College-School Collaboration to Promote Environmental Career Paths	\$174,000		SE, SW	No	No	No	No	No	No	n/a	
77	Direct	U of MN, Bell Museum of Natural History	Ya	Yang	03t	2024-206	Preserving Minnesota Wildflower Information	\$199,000		Statewide	No	No	No	No	No	No	n/a	
78	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	John	Nieber	04j	2024-213	Flood and Drought Modeling for Minnesota	\$499,000		Statewide	No	No	No	No	No	No	n/a	
79	Direct	U of MN, College of Biological Sciences	Meggan	Craft	03u	2024-215	White-Tailed Deer Movement and Disease in Suburban Areas	\$699,000		Statewide	No	No	No	No	No	No	Yes	
80	Direct	U of MN, Raptor Center	Victoria	Hall	03v	2024-222	Highly Pathogenic Avian Influenza and Minnesota Raptors	\$187,000		Statewide	No	No	No	No	No	No	n/a	
81	Direct	U of MN, MN Geological Survey	Barbara	Lusardi	03w	2024-223	Geologic Atlases for Water Resource Management	\$1,236,000		Statewide	No	No	No	No	No	No	n/a	
82	Pass Through	Monarch Joint Venture	Wendy	Caldwell	03x	2024-224	Remote Sensing for Pollinator Habitat	\$180,000		Statewide	No	No	No	No	No	Yes	n/a	
83	Pass Through	Minneapolis Park and Recreation Board	Adam	Arvidson	08l	2024-227	Shingle Creek Aquatic and Shoreline Habitat Enhancement	\$1,100,000		Mississippi River - Twin Cities	No	No	No	No	No	No	n/a	
84	Direct	U of MN, College of Science and Engineering	Sayan	Biswas	08m	2024-237	LiDAR Technology to Help Prevent Wildlife Fatalities from Wind Turbines	\$525,000		Statewide	No	No	No	Yes	No	No	n/a	
85	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Axel	Garcia y Garcia	03y	2024-247	Harnessing Cover Crops and Roots for Sustainable Cropping	\$375,000		SW	No	No	No	No	No	No	Yes	
86	Direct	U of MN, College of Science and Engineering	Nikolaos	Papanikotopoulos	05s	2024-250	Water Quality and Robots: Experientially Educating Minnesotan Youth	\$353,000		Statewide	No	No	No	No	No	No	n/a	
87	Pass Through	Minnesota Native Landscapes	Daniel	Tix	03z	2024-251	Effects of Conservation Grazing on Solar Sites Managed for Pollinator Habitat	\$88,000	Funding would be provided through a grant agreement with the State of Minnesota for work in cooperation with Temple University. Private entity; work must be conducted at cost and no profit, margin or mark-up may be built in	Statewide	No	No	No	No	No	No	Yes	
88	Direct	U of MN, College of Science and Engineering	John	Gulliver	08n	2024-255	Road Salt Pollution of Surface Waters from Groundwater	\$622,000		Statewide	No	No	No	No	No	No	Yes	

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89	Pass Through	Barr Engineering Co.	Andrew	McCabe	04k	2024-257	Breaking the PFAS Cycle with a Full-Scale Demonstration	\$1,481,000	Funding would be provided through a grant agreement with the State of Minnesota for work in cooperation with the city of St. Cloud and the Minnesota Technical Assistance Program (MnTAP) at the University of Minnesota. Private entity; work must be conducted at cost and no profit, margin or mark-up may be built in	Statewide	No	No	No	No	No	No	n/a		
90	Pass Through	Otter Tail County	Kevin	Fellbaum	09j	2024-264	Dent and Vergas Spur Trails	\$934,000		Central	No	No	No	No	No	No	n/a		
91	Pass Through	Saint Mary's University	Andrew	Robertson	04l	2024-269	Are Stream Restoration Efforts Effective? An Evidence-Based Assessment	\$200,000		Statewide	No	No	No	No	No	No	Yes		
92	Direct	MN DNR, Fish and Wildlife Division	Brian	Nerbonne	05t	2024-272	Expanding Youth and Family Fishing Opportunities	\$1,162,000		Statewide	No	No	No	Yes	No	No	n/a		
93	Direct	U of MN, Extension Center for Youth Development	Nicole	Pokorney	05u	2024-273	Youth Conservation Empowerment Project	\$70,000		SE	No	No	No	No	No	No	n/a		
94	Direct	MN DNR, State Parks and Trails Division	Molly	Tranel Nelson	08o	2024-277	Growing the Minnesota Bison Conservation Herd	\$1,775,000		Statewide	No	No	No	No	No	No	n/a		
95	Direct	Science Museum of Minnesota, St. Croix Watershed Research Station	Adam	Heathcote	04m	2024-279	Uncovering the Past to Protect Minnesota's Walleye Fisheries	\$1,121,000		Statewide	No	No	No	No	No	No	Yes		
96	Pass Through	The Loppet Foundation	DeAnna	Smith Perkins	05v	2024-292	North Minneapolis Nature Connection: Storytelling and Leadership Pathways	\$697,000		Metro	No	No	No	No	No	No	n/a		
97	Direct	U of MN, College of Food, Agricultural and Natural Resource Sciences	Todd	Arnold	03bb	2024-296	Integrated Population Modeling for Trumpeter Swans	\$180,000		Statewide	No	No	No	No	No	No	Yes		
98	Pass Through	Hubbard County Soil & Water Conservation District	Crystal	Mathisrud	08p	2024-298	Priority Lakes: Meeting Protection Goals and Multiplying Benefits	\$1,890,000		Hubbard	No	No	Yes	Yes	No	No	n/a		
99	B. Work plans not currently ready for LCCMR approval due to various factors																		
100	Direct	U of MN, Duluth - NRRI	Alexis	Grinde	03c	2024-044	Characterizing Tree Cavities and Use by Minnesota's Wildlife	\$349,000		Statewide	No	No	No	No	No	No	No	No	
101	Pass Through	Native Skywatchers Inc	Annette S.	Lee	03e	2024-048	Turtle Island Skywatchers - Minnesota Research and Data Visualization	\$200,000		Statewide	No	No	No	No	No	Yes	No		
102	Pass Through	US Geological Survey, Ohio Water Microbiology Lab	Lauren	Lynch	03aa	2024-278	Genetic Detection of Endangered Mussels in the Mississippi	\$241,000		Statewide	No	No	No	No	No	No	No	No	