

**Environment and Natural Resources Trust Fund**  
**1st SS, HF 28 1E, Article 3, as passed Environment Finance**

|      | Project  | Agency/Grantee                | 1st SS HF 28 |              |              | 1st SS HF 28 1E |              |              | change<br>from HF 28 |
|------|--|-------------------------------|--------------|--------------|--------------|-----------------|--------------|--------------|----------------------|
|      |  |                               | Year         |              |              | Year            |              |              |                      |
|      |  |                               | FY2020       | FY 2021      | FY20-21      | FY2020          | FY 2021      | FY20-21      |                      |
| 1    | <b>Subdivision 3 Foundational Natural Resource Data and Information</b>          |                               |              |              |              |                 |              |              |                      |
| 2 a  | Geologic Atlases for Water Resource Management                                   | U of MN                       | -            | 2,000        | 2,000        | -               | 2,000        | 2,000        | -                    |
| 3 b  | Expanding Minnesota Ecological Monitoring Network                                | DNR                           | -            | 800          | 800          | -               | 800          | 800          | -                    |
| 4 c  | County Groundwater Atlas   | DNR                           | -            | 1,125        | 1,125        | -               | 1,125        | 1,125        | -                    |
| 5 d  | Foundational Hydrology Data For Wetland Protection and Restoration               | DNR                           | -            | 400          | 400          | -               | 400          | 400          | -                    |
| 6 e  | Voyageurs Wolf Project - Phase II  | U of MN                       | -            | 575          | 575          | -               | 575          | 575          | -                    |
| 7 f  | Expanding Restoration and Promoting Awareness of Native Mussels                  | MN Zoo                        | -            | 489          | 489          | -               | 489          | 489          | -                    |
| 8 g  | Improving Pollinator Conservation By Revealing Habitat Needs                     | U of MN                       | -            | 500          | 500          | -               | 500          | 500          | -                    |
| 9 h  | Bee Minnesota - Protect Our Native Bumblebees                                    | U of MN                       | -            | 650          | 650          | -               | 650          | 650          | -                    |
| 10 i | Bobcat and Fisher Habitat Use and Interactions                                   | U of MN                       | -            | 400          | 400          | -               | 400          | 400          | -                    |
| 11 j | Healthy Prairies III: Restoring Minnesota Prairie Plant Diversity                | U of MN                       | -            | 500          | 500          | -               | 500          | 500          | -                    |
| 12 k | Freshwater Sponges and AIS: Engaging Citizen Scientists                          | U of MN                       | -            | 400          | 400          | -               | 400          | 400          | -                    |
| 13 l | Do Beavers Buffer Against Droughts and Floods?                                   | DNR-Voyageurs National Park   | -            | 168          | 168          | -               | 168          | 168          | -                    |
| 14 m | Enhancing Bat Recovery By Optimizing Artificial Roost Structures                 | DNR                           | -            | 190          | 190          | -               | 190          | 190          | -                    |
| 15 n | Tools For Supporting Healthy Ecosystems and Pollinators                          | DNR                           | -            | 198          | 198          | -               | 198          | 198          | -                    |
| 16 o | Conserving Black Terns and Forster's Terns In Minnesota                          | U of MN- NRRI                 | -            | 198          | 198          | -               | 198          | 198          | -                    |
| 17   |  | <b>Subtotal</b>               | -            | <b>8,593</b> | <b>8,593</b> | -               | <b>8,593</b> | <b>8,593</b> | -                    |
| 18   | <b>Subdivision 4 Water Resources</b>   |                               |              |              |              |                 |              |              |                      |
| 19 a | Unprecedented Change Threatens Minnesota's Pristine Lakes                        | Science Museum                | 849          | -            | 849          | 849             | -            | 849          | -                    |
| 20 b | Managing Highly Saline Waste From Municipal Water Treatment                      | U of MN                       | -            | 250          | 250          | -               | 250          | 250          | -                    |
| 21 c | Technology for Energy-Generating On-Site Industrial Wastewater Treatment         | U of MN                       | -            | 450          | 450          | -               | 450          | 450          | -                    |
| 22 d | Microplastics: Transporters of Contaminants in Minnesota Waters                  | U of MN                       | -            | 425          | 425          | -               | 425          | 425          | -                    |
| 23 e | Developing Strategies to Manage PFAS in Land Applied Biosolids                   | PCA                           | -            | 1,404        | 1,404        | -               | 1,404        | 1,404        | -                    |
| 24 f | Quantifying New Urban Precipitation and Water Reality                            | U of MN                       | -            | 500          | 500          | -               | 500          | 500          | -                    |
| 25 g | Innovative Solution for Protecting Minnesota from PFAS Contamination             | DNR-Dem-Con                   | -            | 250          | 250          | -               | 250          | 250          | -                    |
| 26 h | Expanding Protection of Minnesota Water Through Industrial Conservation          | U of MN                       | -            | 178          | 178          | -               | 178          | 178          | -                    |
| 27 i | COVID-19 Effects on Wastewater Treatment   | U of MN                       | 699          | -            | 699          | 699             | -            | 699          | -                    |
| 28   |  | <b>Subtotal</b>               | <b>1,548</b> | <b>3,457</b> | <b>5,005</b> | <b>1,548</b>    | <b>3,457</b> | <b>5,005</b> | -                    |
| 29   | <b>Subdivision 5 Technical Assistance, Outreach, and Environmental Education</b> |                               |              |              |              |                 |              |              |                      |
| 30 a | Statewide Environmental Education Via Public Television Outdoor Series           | DNR-Pioneer Public Television | -            | 300          | 300          | -               | 300          | 300          | -                    |
| 31 b | Minnesota Freshwater Quest: Environmental Education on State Waterways           | DNR-Wilderness Inquiry        | -            | 500          | 500          | -               | 500          | 500          | -                    |
| 32 c | Teach Science: Schools as STEM Living Laboratories                               | DNR-Climate Generation        | -            | 368          | 368          | -               | 368          | 368          | -                    |
| 33 d | Mentoring Next Generation of Conservation Professionals                          | DNR-MVNWRT                    | -            | 500          | 500          | -               | 500          | 500          | -                    |
| 34 e | Jay C. Hormel Nature Center Supplemental Teaching Staff                          | DNR-Austin                    | -            | 225          | 225          | -               | 225          | 225          | -                    |
| 35 f | 375 Underserved Youth Learn Minnesota Ecosystems by Canoe                        | DNR-YMCA                      | -            | 375          | 375          | -               | 375          | 375          | -                    |
| 36 g | YES! Students Take on Water Quality Challenge - Phase II                         | DNR-Prairie Woods ELC         | -            | 199          | 199          | -               | 199          | 199          | -                    |
| 37 h | Engaging Minnesotans With Phenology: Radio, Podcasts, Citizen Science            | DNR-Northern Community Radio  | -            | 198          | 198          | -               | 198          | 198          | -                    |
| 38 i | Driving Conservation Behavior For Native Mussels and Water Quality               | MN Zoo                        | -            | 191          | 191          | -               | 191          | 191          | -                    |

## Environment and Natural Resources Trust Fund

### 1st SS, HF 28 1E, Article 3, as passed Environment Finance

|    |   |                                      |     |                 |              |               |               |              |               |
|----|---|--------------------------------------|-----|-----------------|--------------|---------------|---------------|--------------|---------------|
| 39 | j Workshops and Outreach to Protect Raptors from Lead Poisoning             | U of MN Raptor Center                | -   | 133             | 133          | -             | 133           | 133          | -             |
| 40 |   |                                      |     | <b>Subtotal</b> | <b>2,989</b> | <b>2,989</b>  | <b>2,989</b>  | <b>2,989</b> | -             |
| 41 | <b>Subdivision 6 Aquatic and Terrestrial Invasive Species</b>               |                                      |     |                 |              |               |               |              |               |
| 42 | a Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC)-Phase V   | U of MN                              | -   | 5,000           | 5,000        | -             | 5,000         | 5,000        | -             |
| 43 | b Protect Community Forests by Managing Ash for Emerald Ash Borer           | DNR                                  | 320 | 3,500           | 3,820        | 320           | 3,500         | 3,820        | -             |
| 44 | c Biological Control of White-Nose Syndrome in Bats-Phase III               | U of MN                              | -   | 440             | 440          | -             | 440           | 440          | -             |
| 45 | d Applying New Tools and Techniques Against Invasive Carp                   | DNR                                  | -   | 478             | 478          | -             | 478           | 478          | -             |
| 46 | e Emerald Ash Borer and Black Ash: Maintaining Forests and Benefits         | U of MN                              | -   | 700             | 700          | -             | 700           | 700          | -             |
| 47 | f Testing Effectiveness of Aquatic Invasive Species Removal Methods         | U of MN-NRRI                         | -   | 110             | 110          | -             | 110           | 110          | -             |
| 48 | g Invasive <i>Didymosphenia</i> Threatens North Shore Streams               | Science Museum                       | -   | 197             | 197          | -             | 197           | 197          | -             |
| 49 |   |                                      |     | <b>Subtotal</b> | <b>320</b>   | <b>10,425</b> | <b>10,745</b> | <b>320</b>   | <b>10,425</b> |
| 50 | <b>Subdivision 7 Air Quality and Renewable Energy</b>                       |                                      |     |                 |              |               |               |              |               |
| 51 | a Storing Renewable Energy in Flow Batter For Grid Use                      | U of MN-Morris                       | -   | 250             | 250          | -             | 250           | 250          | -             |
| 52 | b Eco-Friendly Plastics from Cloquet Pulp-Mill Lignin                       | U of MN                              | -   | 193             | 193          | -             | 193           | 193          | -             |
| 53 | c Diverting Unsold Food From Landfills and Reducing Greenhouse Gases        | DNR-Second Harvest Heartland         | -   | 130             | 130          | -             | 130           | 130          | -             |
| 54 |   |                                      |     | <b>Subtotal</b> | <b>573</b>   | <b>573</b>    | <b>573</b>    | <b>573</b>   | -             |
| 55 | <b>Subdivision 8 Methods to Protect or Restore Land, Water, and Habitat</b> |                                      |     |                 |              |               |               |              |               |
| 56 | a Pollinator Central: Habitat Improvement With Citizen Monitoring           | DNR-Great River Greening             | -   | 750             | 750          | -             | 750           | 750          | -             |
| 57 | b Pollinator and Beneficial Insect Strategic Habitat Program                | BWSR                                 | -   | 750             | 750          | -             | 750           | 750          | -             |
| 58 | c Lignin-Coated Fertilizers For Phosphate Control                           | U of MN-NRRI                         | -   | 250             | 250          | -             | 250           | 250          | -             |
| 59 | d Implementing Hemp Crop Rotation to Improve Water Quality                  | MNSCU-Central Lakes College          | -   | 700             | 700          | -             | 700           | 700          | -             |
| 60 | e Developing Cover-Crop Systems for Sugar Beet Production                   | U of MN                              | -   | 300             | 300          | -             | 300           | 300          | -             |
| 61 | f Native Eastern Larch Beetle Decimating Minnesota's Tamarack Forests       | U of MN                              | -   | 398             | 398          | -             | 398           | 398          | -             |
| 62 | g Habitat Associations of Mississippi Bottomland Forest March Birds         | DNR-Audubon                          | -   | 275             | 275          | -             | 275           | 275          | -             |
| 63 | h Peatland Restoration in the Lost River State Forest                       | DNR-Roseau River WD                  | -   | 135             | 135          | -             | 135           | 135          | -             |
| 64 | i Prescribed Burning for Brushland-Dependent Species-Phase II               | U of MN                              | -   | 147             | 147          | -             | 147           | 147          | -             |
| 65 | j Pollinator Habitat Creation Along Urban Mississippi River                 | DNR-Friends of the Mississippi River | -   | 129             | 129          | -             | 129           | 129          | -             |
| 66 | k Increase Golden Shiner Production to Protect Aquatic Communities          | U of MN-Sea Grant                    | -   | 188             | 188          | -             | 188           | 188          | -             |
| 67 | l Restoring Turf to Native Pollinator Gardens Across Metro                  | DNR-Wilderness in the City           | -   | 197             | 197          | -             | 197           | 197          | -             |
| 68 | m Lawns to Legumes  | BWSR                                 | 900 | -               | 900          | 900           | -             | 900          | -             |
| 69 |   |                                      |     | <b>Subtotal</b> | <b>900</b>   | <b>4,219</b>  | <b>5,119</b>  | <b>900</b>   | <b>4,219</b>  |
| 70 | <b>Subdivision 9 Land Acquisition, Habitat, and Recreation</b>              |                                      |     |                 |              |               |               |              |               |
| 71 | a DNR Scientific and Natural Areas  | DNR                                  | -   | 3,000           | 3,000        | -             | 3,000         | 3,000        | -             |
| 72 | b Private Native Prairie Conservation Through Native Prairie Bank           | DNR                                  | -   | 2,000           | 2,000        | -             | 2,000         | 2,000        | -             |
| 73 | c Minnesota State Parks and Trails Inholdings                               | DNR                                  | -   | 3,500           | 3,500        | -             | 3,500         | 3,500        | -             |
| 74 | d Grants for Local Parks, Trails, and Natural Areas                         | DNR                                  | -   | 2,400           | 2,400        | -             | 2,400         | 2,400        | -             |
| 75 | e Mississippi River Aquatic Habitat Restoration and Mussel Reintroduction   | DNR-Minneapolis Parks                | -   | 1,800           | 1,800        | -             | 1,800         | 1,800        | -             |
| 76 | f Minnesota Hunter Walking Trails: Public Land Recreation                   | DNR-Ruffed Grouse Society            | -   | 300             | 300          | -             | 300           | 300          | -             |
| 77 | g Turning Back to Rivers: Environmental and Recreational Protection         | DNR-TPL                              | -   | 1,000           | 1,000        | -             | 1,000         | 1,000        | -             |
| 78 | h Metropolitan Regional Parks System Land Acquisition-Phase VI              | Metropolitan Council                 | -   | 1,000           | 1,000        | -             | 1,000         | 1,000        | -             |
| 79 | i Minnesota State Trails Development  | DNR                                  | -   | 994             | 994          | -             | 994           | 994          | -             |

**Environment and Natural Resources Trust Fund**  
**1st SS, HF 28 1E, Article 3, as passed Environment Finance**

|     |   |  |   |              |               |               |              |               |               |   |
|-----|---|--|---|--------------|---------------|---------------|--------------|---------------|---------------|---|
| 80  | j | Elm Creek Restoration-Phase IV   | DNR-Champlin  | -            | 500           | 500           | -            | 500           | 500           | - |
| 81  | k | Superior Hiking Trail as Environmental Showcase                            | DNR-Superior Hiking Trail Association                       | -            | 450           | 450           | -            | 450           | 450           | - |
| 82  | l | Upper St. Anthony Falls Enhancements                                       | DNR-Friends of the Locke and Dam                            | -            | 2,800         | 2,800         | -            | 2,800         | 2,800         | - |
| 83  | m | Whiskey Creek and Mississippi River Water Quality, Habitat, and Recreation | DNR-Mississippi Headwaters Board                            | -            | 500           | 500           | -            | 500           | 500           | - |
| 84  | n | Perham to Pelican Rapids Regional Trail (West Segment)                     | DNR-Otter Tail County                                       | -            | 2,600         | 2,600         | -            | 2,600         | 2,600         | - |
| 85  | o | Crow Wing County Community Natural Area Acquisition                        | DNR-Crow Wing County  | -            | 400           | 400           | -            | 400           | 400           | - |
| 86  | p | Rocori Trail-Phase III   | DNR-Rocori Trails Construction Board                        | -            | 1,200         | 1,200         | -            | 1,200         | 1,200         | - |
| 87  | q | Mesabi Trail: New Trail and Additional Funding                             | DNR-St. Louis and Lake Counties Regional Railroad Authority | -            | 1,000         | 1,000         | -            | 1,000         | 1,000         | - |
| 88  | r | Ranier Safe Harbor and Transient Dock on Rainy Lake                        | DNR-Ranier  | -            | 762           | 762           | -            | 762           | 762           | - |
| 89  | s | Crane Lake Voyageurs National Park Campground and Visitor Center           | DNR-Crane Lake  | -            | 3,100         | 3,100         | -            | 3,100         | 3,100         | - |
| 90  | t | Chippewa County Acquisition, Recreation and Education                      | DNR-Chippewa County   | -            | 160           | 160           | -            | 160           | 160           | - |
| 91  | u | Sportsmen's Training and Developmental Learning Center                     | DNR-MN Forest Zone Trappers Association                     | -            | 85            | 85            | -            | 85            | 85            | - |
| 92  | v | Birch Lake Recreation Area   | DNR-Babbitt   | -            | 350           | 350           | -            | 350           | 350           | - |
| 93  |   |  | <b>Subtotal</b>   | -            | <b>29,901</b> | <b>29,901</b> | -            | <b>29,901</b> | <b>29,901</b> | - |
| 94  |   | <b>Subdivision 10 Emerging Issues Account</b>                              |   |              |               |               |              |               |               |   |
| 95  |   | Wastewater Renewable Energy Demonstration Grants                           | PFA   | -            | 1,095         | 1,095         | -            | 1,095         | 1,095         | - |
| 96  |   |  |   | -            | <b>1,095</b>  | <b>1,095</b>  | -            | <b>1,095</b>  | <b>1,095</b>  | - |
| 97  |   | <b>Subdivision 11 Contract Agreement Reimbursement</b>                     |   |              |               |               |              |               |               |   |
| 98  | a | Contract Agreement Reimbursement   | DNR   | -            | 135           | 135           | -            | 135           | 135           | - |
| 99  |   |  | <b>Subtotal</b>   | -            | <b>135</b>    | <b>135</b>    | -            | <b>135</b>    | <b>135</b>    | - |
| 100 |   |  | <b>TOTAL</b>  | <b>2,768</b> | <b>61,387</b> | <b>64,155</b> | <b>2,768</b> | <b>61,387</b> | <b>64,155</b> | - |

101 *\*all values in thousands of \$*

|     |                  |       |        |       |        |   |
|-----|------------------|-------|--------|-------|--------|---|
| 102 | AMOUNT AVAILABLE | 2,768 | 61,387 | 2,768 | 61,387 | - |
| 103 | Difference       | -     | -      | -     | -      | - |

104 **\*\*The \$2.768 million available in FY 2020 is from the cancellation of the Sauk River Dam Removal and Rock Rapids Replacement. ML 2019, 1st SS, Ch. 4, Art. 2, Sec. 2, Subd. 8 (c)**