



Environment and Natural Resources Trust Fund

2027 Request for Proposal

General Information

Proposal ID: 2027-362

Proposal Title: DNR County Groundwater Atlas

Project Manager Information

Name: Vanessa Baratta-Person

Organization: MN DNR - Ecological and Water Resources Division

Office Telephone: (651) 259-5685

Email: vanessa.baratta@state.mn.us

Project Basic Information

Project Summary: This project supports continuing development of County Groundwater Atlases for approximately three years. The goal is to provide these valuable water and resource management tools to every county in Minnesota.

ENRTF Funds Requested: \$3,500,000

Proposed Project Completion: June 30, 2030

LCCMR Funding Category: Water (B)

Project Location

What is the best scale for describing where your work will take place?

Statewide

What is the best scale to describe the area impacted by your work?

Statewide

When will the work impact occur?

During the Project and In the Future

Narrative

Describe the opportunity or problem your proposal seeks to address. Include any relevant background information.

Groundwater is one of our most valuable natural resources; it is also one of our most overlooked and misunderstood, due in part to it being largely hidden from view. Clean and plentiful groundwater is essential to our families, communities, economy, and to sustain the ecosystems Minnesotans treasure. Our state is experiencing more demands to our limited groundwater resources every year. The challenge of balancing all of these uses and needs depends greatly on making informed decisions on how we use water, where we use it, and how we protect the quality of that water. The Groundwater Atlas is a critical tool that planners, businesses, resource managers, researchers, and citizens rely on to help make informed decisions. Atlases help identify areas that may be sensitive to pollution and the subsurface distribution of natural (geogenic) and human-sourced contaminants that can impact drinking water safety. The data and reports published by the Atlas Program provide foundational knowledge for informed groundwater resource management.

What is your proposed solution to the problem or opportunity discussed above? Introduce us to the work you are seeking funding to do. You will be asked to expand on this proposed solution in Activities & Milestones.

To address this pressing need, our goal is to publish an atlas for all Minnesota counties as soon as possible. This appropriation will support atlas work at various phases of development in numerous counties (most likely Yellow Medicine, Cook, Scott, Pennington, Polk, Red Lake, Douglas, and Chippewa). Built on the geologic framework provided by Minnesota Geological Survey Geologic Atlas (Part A), the specific counties will depend upon completion of the Part A Geologic Atlases and progress with ongoing atlas work at the Department of Natural Resources. This proposal covers the cost of completing fieldwork in up to seven new counties and the publication of up to 6 completed County Groundwater Atlases. The complete Atlas provides comprehensive geologic and groundwater mapping, pollution sensitivity of aquifers, water chemistry of aquifers, age-dating of groundwater, groundwater flow direction of aquifers, information about surface water-groundwater interaction, and associated data. This information is used for a wide variety of projects such as: water supply planning, land use decisions, resource development, resource protection, transportation planning, agricultural water supply, groundwater research, Environmental Impact Statements and more.

What are the specific project outcomes as they relate to the public purpose of protection, conservation, preservation, and enhancement of the state's natural resources?

County Groundwater Atlases provide specific and foundational natural resource data and information to a wide variety of resource managers for maintaining long-term stable water supplies for our growing economy and help protect ecological systems, such as trout streams, that rely on groundwater. Groundwater Atlases also provide information for future resource managers, researchers, and citizens who in the decades ahead, will be grappling with the many challenges of balancing use and preservation of their groundwater resources.

Activities and Milestones

Activity 1: Groundwater & surface water sampling and laboratory analysis

Activity Budget: \$856,850

Activity Description:

The DNR will analyze Geologic Atlas (Part A) data from the Minnesota Geological Survey; prepare a sampling plan for up to 105 wells and up to ten surface water bodies in each of up to seven new counties; collect and manage field chemistry data; send collected samples to analytical laboratories for analysis of natural chemistry, stable isotopes of oxygen and hydrogen, and the age-dating isotopes of tritium and carbon-14.

Larger counties will be treated as the equivalent of two smaller counties and up to 210 wells and twice the number of surface water features may be sampled to provide adequate geographic and aquifer distribution for the atlas. Additionally, county specific conditions and needs may call for modified sampling and analysis plans in order gain the most relevant data for resource managers.

Mapping in northern and northeastern Minnesota may require specialized sampling and analysis techniques to gain the most relevant data for resource managers in this unique geologic/hydrogeologic setting. Project design and data collection may include specialty mapping of fracture flow groundwater conditions, including dye tracing or specialized sampling to help understand complex groundwater flow conditions.

Activity Milestones:

| Description | Approximate Completion Date |
|--|-----------------------------|
| Complete water sampling & analysis in the equivalent of 2 - 3 counties | June 30, 2029 |
| Complete water sampling & analysis in the equivalent of 2 - 4 counties | June 30, 2030 |

Activity 2: Groundwater Atlas preparation and publication

Activity Budget: \$2,481,712

Activity Description:

This activity includes analyzing data, preparing GIS files, drafting plates and figures, and preparing and publishing the atlas. Data analysis involves analyzing collected data (geology, water chemistry, water usage, groundwater flow, and others), preparing groundwater flow direction maps, groundwater cross sections and pollution sensitivity maps of aquifers, drafting water chemistry plates, and preparing and publishing reports (hardcopy and web). This activity includes providing GIS data layers for use in decision-support systems, such as county and state land use planning, and county and state environmental programs. The assembled GIS layers and electronic files are available for download through our webpage.

Each Groundwater Atlas includes web and hard-copy publication. This includes digital posting as well as printing of approximately 100 copies: 1) One 60-80 page bound report with up to 50 color figures, maps, and tables, 2) Two to three full color map plates that are each approximately 30-inches by 36-inches in size. Some atlases require a second, figures only, bound report. Printing costs also includes vendor preparation of approximately 1,000 post cards for each county equivalent and postage to mail to citizens for permission for well sampling.

Activity Milestones:

| Description | Approximate Completion Date |
|-------------|-----------------------------|
|-------------|-----------------------------|

| | |
|---|---------------|
| Preparation and publication of up to the equivalent of 2-3 County Groundwater Atlases | June 30, 2029 |
| Preparation and publication of up to the equivalent of 2-3 County Groundwater Atlases | June 30, 2030 |

Activity 3: Atlas stakeholder workshop and dissemination activities

Activity Budget: \$161,438

Activity Description:

To introduce local resource managers, professionals, county staff, and others to an atlas when it is completed; the DNR disseminates our completed information in multiple ways. The primary way is through a hands-on workshop held in cooperation with county staff. Some workshops include a field trip, if the county findings and site accessibility support it. As partners, counties agree to provide 'in kind' support by organizing and hosting the workshops, and providing venues, notifications and support materials. The DNR is heavily engaged in this collaboration, to ensure our partner workshops are tailored to their needs. Workshops include introduction to the atlas, summary of findings, and several real-world exercises demonstrating some of the critical and creative ways to use the atlas to manage resources. When possible DNR staff host these workshops in a hybrid environment and record them, allowing for a broader audience to have an opportunity to view or take part in the workshop. DNR acknowledges our funding sources in all paper, digital, and oral communications. DNR is also working on developing online web viewers for the GIS data published along with the atlases to allow individuals to interact with the data without the need of specialized software.

Activity Milestones:

| Description | Approximate Completion Date |
|---|-----------------------------|
| Complete workshops and dissemination activities for 2-3 completed County Groundwater Atlases. | June 30, 2029 |
| Complete workshops and dissemination activities for 2-3 completed County Groundwater Atlases. | June 30, 2030 |

Dissemination

Describe your plans for dissemination, presentation, documentation, or sharing of data, results, samples, physical collections, and other products and how they will follow ENRTF Acknowledgement Requirements and Guidelines.

At the completion of a Groundwater Atlas for a county, DNR provides direct personal notification to county partners of the availability of the atlas. DNR also notifies LCCMR staff and approximately 7,000 email recipients (listserv: <http://www.dnr.state.mn.us/emailupdates>) who have signed up to receive such notifications. DNR uses official news releases that are picked up by media outlets across the state, and targeted news releases to county media. Additional dissemination outlets include articles or updates in newsletters for organizations such as the Legislative Water Commission, Association of Minnesota Counties, the Minnesota Ground Water Association, internal DNR agency news releases, and presentations at technical and local conferences across Minnesota.

Each completed atlas is printed in paper format and distributed to the county, libraries, state agencies, and other organizations. County representatives are provided with up to 50 paper (hard) copies of the final atlas to distribute to local stakeholders at no charge. Additional paper copies are available through a print-on-demand contractor. Water chemistry data are also incorporated into the interagency EQuIS database that can be used by all state government entities and researchers. PDF versions of the complete report are posted to the DNR web site: https://www.dnr.state.mn.us/waters/groundwater_section/mapping/status.html.

Following the publication of each atlas, a local workshop is held to introduce the report contents and train users in its application. County representatives host the workshop, inviting interested parties. Real-life exercises based on the specific groundwater resources of the county are used to walk stakeholders through the use of the comprehensive information provided in the CGA for their county. When possible DNR staff host these workshops in a hybrid environment and record them, allowing for a broader audience to have an opportunity to view or take part in the atlas training. Following dissemination and the local workshop, DNR staff are available to the counties and others to answer questions and assist in the continued application and use of the atlas.

The Minnesota Environment and Natural Resources Trust Fund (ENRTF) is acknowledged through use of the trust fund logo or attribution language on project print and electronic media, publications, signage, and other communications per the ENRTF Acknowledgement Guidelines.

Long-Term Implementation and Funding

Describe how the results will be implemented and how any ongoing effort will be funded. If not already addressed as part of the project, how will findings, results, and products developed be implemented after project completion? If additional work is needed, how will this work be funded?

Most atlases require 3-5 years to complete, so some projects started in this proposal may not be finished and will require additional funding. This funding level is sized to continue the overall funding of groundwater atlases (Part B) that are currently underway while completing fieldwork in up to 7 new counties and publishing up to 6 completed reports. The DNR provides continued training and support to atlas users through data-pulls, workshops, field trips, user guides, conference and media presentations, and ongoing support to individual counties, resource managers, citizens, and researchers on specific projects and challenges with ongoing funding from DNR.

Other ENRTF Appropriations Awarded in the Last Six Years

| Name | Appropriation | Amount Awarded |
|------|---------------|----------------|
|------|---------------|----------------|

| | | |
|---|---|-------------|
| County Geologic Atlases - Part B, Mapping Aquifer Hydrology | M.L. 2019, First Special Session, Chp. 4, Art. 2, Sec. 2, Subd. 03o | \$2,400,000 |
| County Groundwater Atlas | M.L. 2021, First Special Session, Chp. 6, Art. 5, Sec. 2, Subd. 03c | \$1,125,000 |
| County Groundwater Atlas | M.L. 2021, First Special Session, Chp. 6, Art. 6, Sec. 2, Subd. 03c | \$1,875,000 |
| DNR County Groundwater Atlas | M.L. 2024, , Chp. 83, Art. , Sec. 2, Subd. 03j | \$3,200,000 |

Project Manager and Organization Qualifications

Project Manager Name: Vanessa Baratta-Person

Job Title: Hydrogeologist Supervisor, County Groundwater Atlas Program

Provide description of the project manager’s qualifications to manage the proposed project.

Vanessa has been the Supervisor for the Minnesota Department of Natural Resources County Groundwater Atlas Program for over 2 years. She leads the team responsible for completing detailed mapping of groundwater and other resources in each of Minnesota’s 87 counties. Prior to assuming the supervisor position, Vanessa worked as a hydrogeologist in the County Groundwater Atlas group for 10 years. This allows her to be familiar with all aspects of the work that is accomplished by the County Groundwater Atlas team. She earned a Bachelor of Arts in Geology and Statistics from the University of Minnesota, Morris and a Master of Science in Geoscience from the University of Iowa, where her master’s thesis work focused on the impacts of freeze-thaw cycles on water flow through materials used in bioretention cells (rain gardens).

Organization: MN DNR - Ecological and Water Resources Division

Organization Description:

The mission of the Minnesota DNR is to work with Minnesotans to conserve and manage the state’s natural resources, to provide outdoor recreation opportunities, and to provide for the commercial uses of natural resources in a way that creates a sustainable quality of life. The DNR has extensive experience administering and coordinating projects funded by the ENRTF.

Budget Summary

| Category / Name | Subcategory or Type | Description | Purpose | Gen. Ineligible | % Benefits | # FTE | Classified Staff? | \$ Amount |
|--|---------------------|--|---------|-----------------|------------|-------|-------------------|--------------------|
| Personnel | | | | | | | | |
| Hydrogeologist Supervisor | | Project Manager/Senior Technical | | | 20% | 1 | X | \$168,705 |
| Communications Specialist 1 | | Technical Editor | | | 20% | 1 | X | \$136,895 |
| Hydrogeologist 2 | | Hydrogeologist/Author | | | 20% | 1.9 | X | \$235,919 |
| Hydrogeologist 2 | | Hydrogeologist/Author | | | 20% | 1.9 | X | \$250,199 |
| Hydrogeologist 2 | | Hydrogeologist/Author | | | 20% | 1.9 | X | \$291,785 |
| Hydrogeologist 3 | | Hydrogeologist/Lead Author | | | 20% | 1.9 | X | \$333,113 |
| Senior Groundwater Specialist | | Project Lead/Karst Geology Specialist | | | 20% | 1 | X | \$201,503 |
| Research Analyst Senior | | Lead GIS | | | 20% | 1 | X | \$160,643 |
| Hydrogeologist 1 | | Field hydrogeologist | | | 20% | 1.8 | X | \$252,455 |
| Hydrogeologist 3 | | Hydrogeologist/ Lead Author | | | 20% | 1.8 | X | \$307,339 |
| Hydrogeologist 1 | | Field hydrogeologist | | | 20% | 1.9 | X | \$239,425 |
| | | | | | | | Sub Total | \$2,577,981 |
| Contracts and Services | | | | | | | | |
| Minnesota Department of Agriculture Chemistry Laboratory | Service Contract | MDA Laboratory provides comprehensive chemical analysis of approximately 105 groundwater samples for each equivalent county included in the atlas schedule. With ML2027 appropriation, groundwater from an equivalent of seven counties would be analyzed by the MDA for approximately 735 samples analyzed, at a total cost of approximately \$354,100. | | X | | 2 | | \$354,100 |
| University of Waterloo | Service Contract | The University of Waterloo provides unique laboratory analytical services that are not readily | | X | | 0.4 | | \$152,900 |

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|---------------------------------------|-----------------------|---|--|--|--|--|------------------|------------------|
| | | available from other vendors for Carbon14, tritium and stable isotopes in groundwater. Cost per county for C14, tritium and stable isotope analysis is approximately \$21,850, or a total cost for seven counties of approximately \$152,900. | | | | | | |
| | | | | | | | Sub Total | \$507,000 |
| Equipment, Tools, and Supplies | | | | | | | | |
| | Tools and Supplies | Supplies, including expendable water sampling supplies. Approx. 735 samples total: high volume micro filters; bottles; valves and tubing for each well sampled, titration supplies. Shipping costs for water samples to laboratories. | Disposable supplies used for approximately 105 samples in each of the equivalent of seven counties sampled as part of this proposal. | | | | | \$66,000 |
| | Equipment | Non-capital equipment including: water sampling and measurement tools and field analytical meters and equipment. Estimate includes replacement of multiple, individual meters as needed: Trimble GPS, Eureka Manta water quality meters and probes and titration instruments. . | Necessary equipment and instruments for groundwater sampling. | | | | | \$26,000 |
| | | | | | | | Sub Total | \$92,000 |
| Capital Equipment | | | | | | | | |
| | | | | | | | Sub Total | - |
| Acquisitions and Stewardship | | | | | | | | |
| | | | | | | | Sub Total | - |
| Travel In Minnesota | | | | | | | | |
| | Miles/ Meals/ Lodging | In-state vehicle mileage (est. \$50,000) and travel expenses for meals and lodging (est. \$50,000), primarily for groundwater sampling and field data collection in up to equivalent of seven counties, and workshops in four. All travel per the DNR travel policy. | Groundwater sampling in up to equivalent of seven counties, and workshops in four. | | | | | \$100,000 |
| | | | | | | | Sub Total | \$100,000 |

| | | | | | | | | |
|---------------------------------|----------|---|---|--|--|--|--------------------|--------------------|
| Travel Outside Minnesota | | | | | | | | |
| | | | | | | | Sub Total | - |
| Printing and Publication | | | | | | | | |
| | Printing | Each Groundwater Atlas includes hard-copy publication. This includes digital posting as well as printing of approximately 100 copies: 1) One 60-80 page bound report with up to 50 color figures, maps, and tables, 2) Two to three full color map plates that are each approximately 30-inches by 36-inches in size. Some Atlases require a second, figures only, bound report. Printing costs also includes vendor preparation of 1,000 postcards for each county equivalent and postage to mail to citizens to obtain permission for water-well sampling. Total anticipated printing costs per county equivalent (cards, atlases, postage) estimated to be \$4,400. Printing costs for an equivalent of six atlases estimated to be ~\$26,400. | Post cards are used to request permission from well owners to collect samples from their wells. Approximately 100 copies of the Groundwater Atlas are printed in hard copy for each county for distribution to stakeholders and resource managers. Postage costs are included for post cards and sending copies of the atlas to stakeholders. | | | | | \$26,400 |
| | | | | | | | Sub Total | \$26,400 |
| Other Expenses | | | | | | | | |
| | | *Direct and Necessary Expenses: People Support (~\$41,478), Safety Support (~\$5,439), Financial Support (~\$33,623), Communication Support (~\$2,086), IT Support (~\$112,450), and Planning Support (~\$1,543) necessary to accomplish funded programs/projects. | *Direct and Necessary Expenses includes all Department Support Services. | | | | | \$196,619 |
| | | | | | | | Sub Total | \$196,619 |
| | | | | | | | Grand Total | \$3,500,000 |

Classified Staff or Generally Ineligible Expenses

| Category/Name | Subcategory or Type | Description | Justification Ineligible Expense or Classified Staff Request |
|---|---------------------|----------------------------------|--|
| Personnel - Hydrogeologist Supervisor | | Project Manager/Senior Technical | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Personnel - Communications Specialist 1 | | Technical Editor | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Personnel - Hydrogeologist 2 | | Hydrogeologist/Author | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Personnel - Hydrogeologist 2 | | Hydrogeologist/Author | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Personnel - Hydrogeologist 2 | | Hydrogeologist/Author | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Personnel - Hydrogeologist 3 | | Hydrogeologist/Lead Author | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these |

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|--|------------------|--|--|
| | | | positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Personnel - Senior Groundwater Specialist | | Project Lead/Karst Geology Specialist | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Personnel - Research Analyst Senior | | Lead GIS | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Personnel - Hydrogeologist 1 | | Field hydrogeologist | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Personnel - Hydrogeologist 3 | | Hydrogeologist/ Lead Author | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Personnel - Hydrogeologist 1 | | Field hydrogeologist | Classified : Because the atlas program represents a longer-term project (decades) to complete an atlas for every county, most staff paid for with ENRTF funds are in classified positions hired specifically to accelerate the completion of the atlas work. Staff in these positions generally did not have and currently do not have other assignments. The positions will be canceled and the approved complement of the agency reduced accordingly once the appropriation has been spent. |
| Contracts and Services - Minnesota | Service Contract | MDA Laboratory provides comprehensive chemical analysis of approximately 105 groundwater | As a State Agency, the MDA is given preference for this contract. |

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|---|-------------------------|---|--|
| <p>Department of Agriculture Chemistry Laboratory</p> | | <p>samples for each equivalent county included in the atlas schedule. With ML2027 appropriation, groundwater from an equivalent of seven counties would be analyzed by the MDA for approximately 735 samples analyzed, at a total cost of approximately \$354,100.</p> | |
| <p>Contracts and Services - University of Waterloo</p> | <p>Service Contract</p> | <p>The University of Waterloo provides unique laboratory analytical services that are not readily available from other vendors for Carbon14, tritium and stable isotopes in groundwater. Cost per county for C14, tritium and stable isotope analysis is approximately \$21,850, or a total cost for seven counties of approximately \$152,900.</p> | <p>This is unique laboratory analytical work not readily available from other contractors.</p> |

Non ENRTF Funds

| Category | Specific Source | Use | Status | Amount |
|------------------|---|---|----------------------------|--------------------|
| State | | | | |
| Cash | DNR General Funds appropriated by the legislature and distributed by the commissioner of the DNR. | DNR General Funds to support salaries for atlas staff (~3 FTE) and related support resources for the 2-year project period to support completion of groundwater atlases. | Pending | \$1,200,000 |
| | | | State Sub Total | \$1,200,000 |
| Non-State | | | | |
| In-Kind | In-Kind county/local government assistance through staff, resources, facilities and goods. | County/local government assistance to arrange water sampling access, arrange and sponsor local training workshops, field trips and training. Approximately \$2,000/county for up to six counties. | Potential | \$12,000 |
| | | | Non State Sub Total | \$12,000 |
| | | | Funds Total | \$1,212,000 |

Total Project Cost: \$4,712,000

This amount accurately reflects total project cost?

Yes

Attachments

Required Attachments

Visual Component

File: [ccb1d8f8-610.pdf](#)

Alternate Text for Visual Component

Map shows the status of groundwater atlases by county in March 2026. Counties are shaded according to their status as either, 1) not yet started, 2) complete/underway, or 3) counties included in proposal ML2027-362. Page two is a list of all eighty-seven (87) counties grouped by atlas status....

Administrative Use

Does your project include restoration or acquisition of land rights?

No

Do you understand that travel expenses are only approved if they follow the "Commissioner's Plan" promulgated by the Commissioner of Management of Budget or, for University of Minnesota projects, the University of Minnesota plan?

Yes, I understand the Commissioner's Plan applies.

Does your project have potential for royalties, copyrights, patents, sale of products and assets, or revenue generation?

No

Do you understand and acknowledge IP and revenue-return and sharing requirements in 116P.10?

N/A

Do you wish to request reinvestment of any revenues into your project instead of returning revenue to the ENRTF?

N/A

Does your project include original, hypothesis-driven research?

Yes

Does the organization have a fiscal agent for this project?

No

Does your project include the pre-design, design, construction, or renovation of a building, trail, campground, or other fixed capital asset costing \$10,000 or more or large-scale stream or wetland restoration?

No

Do you propose using an appropriation from the Environment and Natural Resources Trust Fund to conduct a project that provides children's services (as defined in Minnesota Statutes section 299C.61 Subd.7 as "the provision of care, treatment, education, training, instruction, or recreation to children")?

No

Provide the name(s) and organization(s) of additional individuals assisting in the completion of this proposal:

Minnesota Department of Natural Resources

Do you understand that a named service contract does not constitute a funder-designated subrecipient or approval of a sole-source contract? In other words, a service contract entity is only approved if it has been selected according to the contracting rules identified in state law and policy for organizations that receive ENRTF funds through direct appropriations, or in the DNR's reimbursement manual for non-state organizations. These rules may include competitive bidding and prevailing wage requirements

Yes, I understand