

2016 ENRTF RFP Draft suggestions for water section

B. Water Resources - Proposals must address one or more of the following ways to protect water quality and quantity:

- ~~1. Protect or restore water quality by reducing soil erosion, reducing peak water flows, or improving water and land use practices. Projects must include monitoring and evaluation.~~
- 1.2. Research and evaluation to identify the causes of observed changes in the health of fish and wildlife that may pertain to contaminants of emerging concern.
- 2.3. Research, technology development, or engineering design to protect the health of humans and aquatic and terrestrial species by
 - ~~i) advancing development or implementation of standards for nitrates or other contaminants;~~
 - ii) broadly increasing understanding of the sources, fate, movement and effects of contaminants of emerging concern and reducing levels of contaminants such as nitrates, phosphates, estrogenic compounds, pharmaceuticals, personal care products, chlorides, PAHs (Polycyclic aromatic hydrocarbons), pesticides or other contaminants in ground and surface waters.
 - iii) increasing understanding of impacts on aquatic communities including invertebrates and mussels
- 3.4. Research, monitoring, or evaluation pertaining to
 - ~~i) ground and surface water interaction, protection, conservation, and sustainability;~~
 - ii) rivers and lake ecosystems, including Lake Superior.
 - iii) aquifers, recharge, ground water flow and stream flow
 - iv) wetland quality and functions
 - v) effects of climate change and other factors on ground water recharge in south west Minnesota and other areas of the state with limited ground water
4. Research, development and testing of innovative methods to mitigate impacts on water quality, groundwater recharge and aquatic habitat resulting from artificial hydrological modifications in both urban and agricultural areas
5. Research of new and innovative methods to be used in the development, operation and maintenance of infrastructure for drinking water, sanitary waste and storm water that will provide sustainable water quality and quantity in to the future.