

## Request for Proposals

The Greenbrier Valley Conservation District at 179 Northridge Drive, Lewisburg WV, 24901 is seeking proposals from qualified environmental consulting firms, academic institutions, or non-profit organizations, to implement a one year scale-nested water quality monitoring program on Kitchen Creek, located at Gap Mills WV in Monroe County. Proposals must be received by the Greenbrier Valley Conservation District no later than 12:00 pm Noon on February 8, 2017. Proposals will be opened at 1:00pm on February 8, 2017.

### **Pre-qualifications to apply:**

The principal investigator for this project must meet the following qualifications:

- Must have a proven background in hydrology, water quality, watershed management and land use research. PhD preferred.
- Must have specific experience utilizing a scale-nested water quality monitoring design apply to contemporary mixed-land-use watersheds to advance watershed management practices.
- Must have demonstrated the quality of its research.
- Must have a laboratory that is equipped with instrumentation for water quality analyses, soil hydrology analyses, and hydrological instrumentation.
- Must publish research findings (report for agency and article(s) in relevant journal(s))
- The study must be completed within one year

### **Study Objectives:**

The primary objective of the proposed monitoring is to quantify and determine the approximate source of fecal coliform in Kitchen Creek, WV. Specific objectives include:

- 1) Detailed characterization/description of the streamflow regime
- 2) Quantification of fecal coliform counts during a range of streamflow conditions (i.e. baseflow, high flow, and peak flow).

### **Deliverables:**

The proposed work should utilize a scale-nested experimental design to isolate and identify water quality and quantity trends associated with specific land use and restoration practices. A detailed, quantitative description of watershed streamflow regime must be paired with a comprehensive analysis of in-stream bacteria. Regularly collected water samples should be analyzed to provide a characterization of fecal coliform including concentration and estimated loading rates. Fecal coliform characteristics must be determined using new, EPA-certified reactant/incubation methods (IDEXX, Inc.). Collection and analysis of water samples from multiple tributaries and Kitchen Creek must facilitate isolation and identification of sources of water quality degradation to pinpoint areas for future remediation efforts and increase the efficacy of watershed management strategies. Recipient must provide a report of research findings to the Greenbrier Valley Conservation district and publish research findings in relevant journal(s)

### **Proposal Requirements:**

Proposals must include a description of the researcher's qualifications and summary of experience, detailed methodology including description of equipment that will be utilized, and itemized budget with budget justification. Indirect costs and equipment purchases are not eligible. Cost share is not required but applicants are encouraged to leverage existing resources and equipment. The Greenbrier Valley Conservation District reserves the right to reject any proposal based on its ability to meet the requirements of this solicitation.