

**REQUEST FOR QUALIFICATIONS**  
**Big Reed Creek and its Tributaries**  
**Total Maximum Daily Load (TMDL)**

The Mount Rogers Planning District Commission (PDC) is soliciting statements of qualifications from firms or individual(s) qualified to provide environmental professional services in the development of a Total Maximum Daily Load (TMDL) for the Big Reed Island Creek and its Tributaries.

The identified impaired segments are on the following streams: Big Reed Island Creek, Greasy Creek, Island Creek and Tributaries, Little Reed Creek, East Fork Little Reed Creek, located in Carroll and Pulaski County in Southwest Virginia.

Statements of Qualifications must be received by **October 13<sup>th</sup>, 2017**, and the PDC expects to submit to the Virginia Department of Environmental Quality (DEQ) by **October 27<sup>th</sup>, 2017**.

**Study Area**

There are eight (8) different impairment segments in this study area. These are:

Stream Name	County	NWBD	Assessment Unit ID	Cause Group Code	Impairment	Cycle First Listed	Stream Miles
Big Reed Island Creek	Carroll	NE36	VAS-N13R_RIC01B04	N13R-01-BAC	Bacteria	2008	19.85
				N13R-01-BEN	Benthic		
Big Reed Island Creek	Carroll	NE39	VAS-N14R_RIC01B04	N14R-01-BAC	Bacteria	2010	13.81
Greasy Creek	Carroll	NE40	VAS-N14R_GSC01A08	N14R-02-BAC	Bacteria	2008	13.63
Big Reed Island Creek	Carroll Pulaski	NE41	VAS-N14R_RIC01B98	N14R-03-BAC	Bacteria	2008	9.85
Island Creek and Tributaries	Carroll	NE39	VAS-N14R_ISL01A12	N14R-03-BEN	Benthic	2012	13.35
Little Reed Island Creek	Carroll Wythe Pulaski	NE34	VAS-N15R_LRI01A98	N15R-01-BAC	Bacteria	2008	11.00
East Fork Little Reed Island Creek	Carroll	NE33	VAS-N15R_LRI01B98	N15R-01-BAC	Bacteria	2008	5.28
Little Reed Island Creek	Carroll	NE33 NE34	VAS-N15R_LRI02A08	N15R-01-BAC	Bacteria	2008	19.70

Sources of bacteria were identified and quantified in the Big Reedy Creek watershed and tributaries. Sources included point sources as well as non-point sources. Sources of bacteria included human, livestock, wildlife, pets, as well as permitted point sources.

## Scope of Services

The chosen firm/contractor will follow DEQ's approach for developing TMDLs. This process includes, compiling information available for the impaired watershed (including monitoring data, permit information, land use data etc.) and performing analysis of the available data; defining seasonal trends and identifying critical flow conditions; establishing TMDL endpoints; developing a comprehensive source assessment; selecting a model framework; model parameterization; hydrology and water quality calibration/validation; sensitivity analysis; determining existing conditions including incorporating a margin of safety; allocating loads to pollutant sources; and writing the draft and final TMDL documents. The contractor will be expected to maintain regular communication with the DEQ TMDL Coordinator and the PDC throughout the TMDL development process.

This process includes interaction with stakeholders through technical advisory committee meetings and public meetings. Meetings with individual stakeholder groups may also be included, if appropriate. These meetings provide a public forum for discussion of the TMDL process and provide opportunities for watershed stakeholders to address questions or concerns. Through the course of this project two public meeting and two technical advisory committee meetings will be held.

## Deliverables

Deliverables will include:

Benthic Impairments for Big Reed Island Creek and Tributaries: Big Reed Island Creek and Island Creek

- **Data Inventory:** memorandum summarizing existing data to be used.
- **Stressor Analysis:** analysis of most probable stressors.
- **Watershed Characterization:** tables and figures showing monitoring locations, soil characterization, land use, permitted sources, etc.
- **Environmental Monitoring Analysis:** memorandum describing analysis of water quality parameters and benthic community.
- **Draft Report:** draft report describing watershed and most probable stressors to aquatic community.
- **Final Report:** report with DEQ and public comments addressed.

Bacteria Impairments for Big Reed Island Creek and Tributaries: Big Reed Island Creek, Greasy Creek, Little Reed Island Creek, and East Fork Little Reed Island Creek

- **Data Inventory (combined with inventory memorandum above):** summary of water quality, land use, soils, etc. from available data sources.
- **Watershed Characterization:** memorandum describing watershed characteristics and permitted sources outlined in data inventory.
  - Include a watershed tour with DEQ.
- **Source Assessment:** memorandum addressing potential sources and data used to identify these sources.
- **Watershed modeling:** memorandum describing the approach, calibration, and validation of the model.
- **Draft Report:** elicit comments from DEQ on Draft TMDL report.
- **TMDL Final Report:** make necessary changes to report based on comments received.

## Temperature Impairments for Big Reed Island Creek and Tributaries: Little Reed Island Creek

- **Data Inventory (combined with inventory memorandum above):** summary of water quality, land use, soils, etc. from available data sources.
- **Watershed Characterization:** memorandum describing watershed characteristics and permitted sources outlined in data inventory.
- **Watershed modeling:** memorandum describing the approach, calibration, and validation of the model.
- **Draft Report:** elicit comments from DEQ on Draft TMDL report.
- **TMDL Final Report:** make necessary changes to report based on comments received.

### **Selection Criteria**

Proposals shall be evaluated by the PDC using the following criteria:

- Expertise, experience and qualifications of the firm/individual(s) and project manager in providing the services in Southwestern Virginia watersheds or equivalent, as described in the Scope of Services in this RFQ
- Expertise submitting DEQ/DCR-approved TMDL
- Capability and expertise in GIS, mapping and watershed modeling
- Availability to PDC and regulatory agencies, upon request, to attend meetings, consultations, and site visits
- General understanding of the project requirements and proposed project approach and management
- Familiarity with the TMDL watersheds
- References
- Appearance and completeness of proposal

### **Selection Process**

Qualifications statements will be evaluated based on the criteria contained herein by a selection committee. Interviews will be conducted with at least two of the top-ranked firms, with the final selection based upon those interviews. The highest ranked offerer will enter into contract negotiations, and a final scope of services, amount and method of compensation will be determined. If a mutually acceptable contract for services cannot be successfully negotiated, the committee will commence negotiations with the next highest ranked offerer, and continue until a contract is successfully negotiated. The PDC reserves the right to reject any or all proposals and to negotiate with the most qualified respondent.

The Planning District Commission does not discriminate on the basis of race, color, religion, sex, national origin, age, or handicap. Minority Owned Business Enterprises (MBEs) and Women Owned Business Enterprises (WBEs) are encouraged to respond. By submitting this statement of qualifications, the respondent certifies that it does not and will not, during the performance of this contract, violate the provisions of the Federal Immigration Reform and Control Act of 1986, which prohibits employment of illegal aliens.

### **Submittal of Statements of Qualifications**

All Statements of Qualifications shall be submitted electronically to Aaron Sizemore, Executive Director, Mount Rogers Planning District Commission, at [asizemore@mrpdc.org](mailto:asizemore@mrpdc.org) . Statements must be received by **3:00 p.m., Friday October 13<sup>th</sup>, 2017**. Late proposals will not be considered. Inquiries may be directed to Aaron Sizemore at (276) 783-5103 ext 304, or [asizemore@mrpdc.org](mailto:asizemore@mrpdc.org) .