



# REQUEST FOR STATEMENT OF QUALIFICATIONS

PRELIMINARY DESIGN AND CONSTRUCTION MANAGER AT RISK PROCUREMENT FOR THE MT. CRESTED BUTTE WATER TREATMENT PLANT AND EAST RIVER PUMP STATION

**[January 3, 2019]**





## **REQUEST FOR QUALIFICATIONS**

### **1. INTRODUCTION**

The Mt. Crested Butte Water and Sanitation District (MCBWSD) requests Statements of Qualifications from qualified engineering firms for preliminary design and Construction Manager at Risk Procurement for a 2019 Capital Improvements Project at the Mt. Crested Butte Water Treatment Plant (MCBWTP) and East River Pump Station (PS).

### **2. BACKGROUND**

Constructed in 1985, the MCBWTP is a direct filtration treatment plant that serves the Mt. Crested Butte service area. The MCBWTP is rated for 1.5 million gallons per day (MGD); however, the facility and treatment process cannot reliably achieve this capacity. District staff have been challenged to meet demands greater than 1.0 MGD.

The MCBWTP receives source water from the East River, Malensik Ditch, and several springs in the area. The source water is combined in a pre-sedimentation pond at the plant site and then flows by gravity to two Trident™ units. Nalco Ultrion 8157 is fed upstream as the coagulant. Filter water from the Trident units drops into the clearwell, underneath the MCBWTP. Chlorine is added for disinfection via a tablet feeder. Two ultraviolet disinfection (UV) units were recently added to the plant to provide additional log removal for disinfection. Caustic soda is added to adjust pH for copper control in the distribution system. Vertical turbine pumps located over the clearwell transfer water to the storage tanks and distribution system. Flush water and filter backwash waste from the Trident units is routed to a backwash pond on site. Decant from the backwash pond is recycled back to the pre-sedimentation pond via the backwash recycle pumps.

Constructed in the 1970's, the East River PS is the primary source of supply for the MCBWTP. The PS is situated on the East River and houses three (3) vertical turbine pumps. Due to electrical limitations, the District can only operate two of the three pumps at any given time. Consequently, the PS does not have firm capacity to meet the demands of the system. The PS does not have a backup power supply and is difficult to access due to the steep access road. Discharge from the PS is routed through 4,500 lineal feet of 8-inch diameter pipeline to the MCBWTP pre-sedimentation pond. The pipe alignment runs through an avalanche zone in steep terrain and the pipe's condition is unknown.

The need for reliable treatment capacity, coupled with a need to replace aging infrastructure, has prompted the District to initiate a major capital improvement project to replace the MCBWTP, the East River PS, and install a redundant raw water pipeline from the East River PS to the new MCBWTP. Based on recent master planning efforts, the new system must provide 1.5 MGD of capacity initially and 2.0 MGD at buildout. The MCBWTP site has limited room for expansion. Furthermore, the District has a strong desire to use membrane treatment technology at the MCBWTP to establish a consistent treatment technology with their second treatment facility, Meridian WTP, which serves a separate portion of the District's service area.



### **3. PROJECT DESCRIPTION**

The project will be comprised of three major work elements described below.

1. MCBWTP improvements design
  - a. New treatment building with MF/UF membrane equipment and ancillaries, chemical storage, finished water pumps, and operator working areas (control room, lab, restrooms, etc.)
  - b. Conversion of existing treatment building to maintenance area, equipment storage, and indoor vehicle storage
  - c. Above ground clearwell
  - d. Backwash pond modifications
  - e. Backup generator(s) (possible only one to serve both the WTP and the East River PS)
  - f. SCADA improvements
2. East River PS improvements
  - a. PS building with vertical turbine pumps
  - b. Power supply upgrade
  - c. Intake and settling pond improvements
3. Redundant raw water pipeline from the East River PS to the new MCBWTP

The Consultant will prepare 30% design level documents and then assist the District with Construction Manager at Risk (CMAR) selection. Following CMAR team selection, the consultant and contractor will prepare 60% design level documents and submit to CDPHE. To expedite the project schedule, the project may be split into two design packages. Packages will be determined once the CMAR team has been procured following completion of 30% design. A conceptual design has been developed for the MCBWTP improvements and is addressed in the Final Needs Assessment Memorandum (2018, HDR). 90% level construction documents have been developed for the new East River PS building (2016, Stantec). 90% level construction documents have been developed for the new redundant raw water pipeline (2016, Stantec). However, the design criteria for the PS and pipeline need to be revised and the design updated accordingly.

The consultant will be responsible to acquire the necessary permits from the CDPHE, US Army Corps of Engineer, including but not limited to Section 404, and other permits as required to commence construction of the work. Construction phase services are not included in the project at this time and will be negotiated with the selected consultant once design is almost complete.

The project will be funded through Colorado's Drinking Water Revolving Fund (SRF). The consultant will be responsible for assisting the District in applying for SRF funding, and completing all administrative requirements required for SRF projects.

### **4. QUALIFICATION REQUIREMENTS**

#### **a. Proposal Format**

Consultants shall submit three (3) hard copies and one (1) electronic copy of the qualifications not to exceed fifteen (15) pages in length, excluding cover pages, dividers, and appendices. Up to two (2) of the fifteen (15) pages can be 11x17 format. Resumes should be included in the appendices and limited to two pages per person. The consultant shall address the following required qualifications:



- Project Understanding and Approach – Describe the team's understanding of the District's needs. Describe consultant's design philosophy and approach, and identify specific challenges and opportunities.
- Relevant Experience – Describe the team's experience with the following,
  - Assisting with procurement of CMAR contractors
  - Experience and success working on CMAR teams
  - Assisting clients with applying for and administering Colorado Drinking Water SRF funding
  - Design of pumps and pipelines in challenging construction conditions
  - Membrane treatment plant design
  - Familiarity with the District's infrastructure
- Project Team - Identify the individuals from your firm who will be involved in the project and their responsibilities. Present an organization chart indicating the key staff members that will be assigned to the project. Describe the team's experience including subconsultants with similar projects, and in the disciplines necessary to fulfill the project requirements.
- Separate sealed envelope with a complete breakdown of hours and fees for 30% design, CMAR procurement and 60% design including CDPHE permitting.

#### **b. Evaluation of Qualifications**

For this Solicitation, the evaluation committee will score responses based on the criteria outlined in this section. Statements of Qualifications will be examined closely to determine that they meet the standards necessary for this assignment, as determined by the District. The District will be the sole judge as to which firms are selected to provide proposals. It is the District's intent to consider the firms deemed to be the most highly qualified to provide the services required. Selection will be based upon the review of the Statements of Qualifications according to the Evaluation Criteria.

- i. Project Team (35 points possible).
  - a. Provide a project-specific organization chart indicating the key personnel that will be committed to the project and discuss how the project team's qualifications and experience relate to this specific project. Include a discussion of previous projects completed by the same project team.
  - b. Include a discussion of relevant experience of any sub-consultant(s) identified in the proposal; discuss relevant experiences of partnering with the sub-consultant(s) on previous projects (if applicable).
- ii. Anticipated Project Approach (35 points possible).
  - a. Describe the project team's proposed course of action to accomplish the tasks identified in this RFQ.
  - b. Identify critical issues to project success and recommendations for cost and schedule control.
- iii. Similar Project Experience (20 points possible).
  - a. Provide a brief discussion and a list of current and past projects (completed in the past three years), which the project team and/or firm, has completed, preferably for counties or municipalities. The list of projects should contain elements similar to those found on this project.
- iv. Firm Capabilities and Willingness to Meet Project Constraints (10 points possible).



- a. Discuss the capability of local staff available to work on this project. Specifically, include a discussion of team members' availability to begin work on critical path elements immediately after commencement and throughout the duration of the project.

**c. Schedule**

The following is a tentative RFQ schedule:

- RFQ Available: [**January 3, 2019**]
- Written Questions Due: [January 17, 2019]
- Statement of Qualifications Due: [**January 24, 2019**]
- Notice of selection for RFQ: [February 5, 2019]

**5. REFERENCE MATERIALS**

The following reference materials will be made available electronically via the District's FTP site:

- Final Needs Assessment Memo (2018, HDR)
- Water Master Plan Update (2014, Stantec)
- MCBWTP Design Drawings (1985, M&I Donohue)
- East River Pump Station Design Drawings (2016, Stantec)
- East River Raw Water Line Design Drawings (2016, Stantec)

**6. QUALIFICATIONS SUBMITTAL**

**Three (3) hard copies and one electronic copy of the proposals shall be received by 5:00 pm Thursday January 24, 2019 at the following address:**

Michael Fabbre  
Mount Crested Butte Water and Sanitation District  
100 Gothic Road, PO Box 5740  
Mt. Crested Butte, CO 81225  
mfabbre@mcbwsd.com

**7. LIMITATIONS**

The District reserves the right to reject any/or all proposals and waive any informalities or irregularities therein. The proposal is prepared at the consultant's expense and becomes District record and therefore a public record. Confidential data, if identified as such, will be held in confidence upon request, if the request is made as a part of the submittal of qualifications and if the District attorney determines that the data meet the requirements of the Colorado Public Records Act.

**8. CONTACT INFORMATION**

Questions and information related to this RFQ shall be directed to Michael Fabbre at (970) 349-7575 or via e-mail: mfabbre@mcbwsd.com