RFQ#6700 EXHIBIT 3
SCOPE OF WORK FOR
LAKE RAY ROBERTS WATER TREATMENT PLANT
REGULATORY AND PERFORMANCE UPGRADE

INTRODUCTION

The City of Denton (the City), water utility department is inviting Request for Qualification (RFQ) to provide condition assessment, preliminary engineering design and associated construction cost for regulatory and performance upgrade of the Lake Ray Roberts Water Treatment Plant (RRWTP) from an individual or business with experience in providing such services.

City of Denton, has two (2) water treatment facilities, Lake Lewisville and Lake Ray Roberts. Lake Ray Roberts water treatment plant was built in 2002 with a production capacity of 20 MGD. Lake Ray Roberts water treatment plant is a conventional surface water plant with biological filtration and ozone disinfection process. RRWTP treats raw water from Lake Ray Roberts; one of several surface impoundments in the North Texas area. The water plant appurtenances are showing signs noticeable wear from years of service and needs rehabilitation to comply with any new applicable regulation, improve performance and safety.

1. PURPOSE

The purpose for the RFQ is for consulting services with water treatment plant experience to conduct an assessment of the above and below ground facilities at the Lake Ray Roberts Water Treatment Plant (RRWTP). The deliverable will include a summary of the investigation; the condition of each asset and prioritization of any recommendation regarding repair, rehabilitation or replacement, preliminary design with estimated cost.

2. SCOPE OF SERVICES

The scope of work outlined in this RFQ is preliminary, and a final scope will be negotiated with the selected firm and modified as needed. The purpose of this facility assessment is to provide the City of Denton with information to determine the existing condition all facilities within the treatment process and all buildings on-site. The assessment will include an investigation of the structural, mechanical, chemical, electrical, instrumentation components of all processes and facilities both above and below ground and determine their existing condition, its remaining life, and whether it should be repaired, rehabilitated, or replaced. Consideration should be given to regulatory compliance, operational efficiency improvements and safety.

The assessment will result in a deliverable that includes a prioritized list of rehabilitation and/or improvement projects necessary to extend the useful life of these facilities and improve operational efficiency of the treatment facility.

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A. The following is a list of RRWTP's treatment process components and ancillary facilities to be evaluated as part of this service:

- Raw water Pump Station near Lake Ray Roberts Dam and Raw Water Meter Vault
- Ozone Generation Facility
- Pre-Ozone Facility
- Chlorine and Ammonia Storage and Scrubber Facility
- Pump Diffusion Vault
- Flow Splitter Vault
- Flocculation Basins
- Sedimentation Basins
- Multi-media Biological Filtration
- Intermediate Ozone Facility
- Transfer Pump Station
- Finished Water Storage Tank
- High Service Pump Station and Master Meter
- Main Electrical Building (MEB) & Emergency Generators
- Wash Water Recovery Basin & Pumps
- Main Drain Pump Station
- Sludge pumping Facility
- Sludge Lagoons
- Chemical Feed and Storage

B. The key aspects of the existing chemical process include:

- Sodium permanganate addition to the raw water to control zebra mussel attachment and protect the raw water pipeline.
- Coagulation with polymer and ferric sulfate for particle and organics removal (coagulation), fluoride for dental hygiene.
- Primary disinfection with pre-ozone and intermediate ozone. Chloramines (Chlorine combined with ammonia) through clear well. Secondary disinfection through distribution system with chloramine.
- Caustic addition to increase pH of finished water for transmission lines for corrosion control, maintenance of disinfection residual and increase chemical stability.

3. MIMIMUM REQUIREMENTS FOR SUBMISSION

The following minimum requirements must be demonstrated; in order for the submission to be **considered responsive** to the City of Denton's request for the RFQ. Any submittal received, which is determined to not meet these mandatory requirements shall be immediately disqualified and rejected as non-responsive.

a) Request for Qualification (RFQ) should be no longer than 25 pages. All pages with the exception of the front cover, the back cover and qualified divider sheets will be counted in the 25 pages. In order to be considered a qualified divider sheet, the page may have a description (i.e. Project Team, Experience, etc.) or a numeral on the divider tab only. Resumes and/or brochures will be included in the page count. Cover letters (if bound into the RFQ) will be included in the page count.

b) A maximum three (3) page narrative as to the firm's interest, particular abilities and qualifications related to this project.

c) The location of your office where the majority of the work on the project will be performed and the approximate number of employees in that office

d) Resumes of key personnel to be assigned to this project with an organizational chart.

e) A list and general description of each project that the above-mentioned staff has performed that would indicate your firm's ability to perform the work being considered. At least five (5) project examples should be included. The list of specific projects shall indicate the professional services necessary to accomplish the project, along with your client's name and phone number.