

## Memorandum

To: Mayor and City Council Members  
Steve Parker, City Manager

From: Tim Howe, Water & Wastewater Director

Through: Rick Cortes, Deputy City Manager

Subject: Water Treatment Plant Clarifier Project

Adjustment Date: July 2, 2024

At the request of the City, TRC Engineers, Inc. prepared a professional engineering services proposal for the design, bidding, and construction phase services for an additional solids contact clarifier at the City's Water Treatment Plant. This project will provide redundant treatment and position the City for a future phased water plant replacement. TRC Engineers' proposal consist of the following:

1. Clarifier
  - a. Circular concrete basin
  - b. Elevated access platform
  - c. Chemical feed
  - d. Flow split control between existing clarifiers
  - e. Site electrical / SCADA related to the clarifier
  - f. Site Piping
2. Resolution of entrained air within the existing clarifier
  - a. Currently, the treatment process is challenged with an issue created by entrained air.
3. TCEQ required Water Plant Concentration-Time Study
  - a. *A Concentration-Time (CT) study of a water treatment plant is a technical determination of disinfection performance based on the disinfectant concentrations and the effective contact time of each disinfectant.*

Staff recommends acceptance of this professional services proposal in the amount of \$733,462.00. Funding is provided through certificates of obligation. I will be available at the City Council meeting on July 2, 2024, to address any questions or concerns.