

Agenda Item: 3.d

Meeting Date: July 23, 2019

MEMORANDUM

To: City Commission

Date: 2019-07-15

From: Jorge Quintas, Public Works & Utilities Director/Engineer

Subject: Wastewater Treatment Plant Electrical System Upgrades Design Services.

Presenter(s): Russell Ferlita, Ph.D., P.E., Section Engineer | PW & Utilities, Paul Stanek, Assistant Director, Public Works & Utilities Department

Recommend: Staff recommends to Award the Wastewater Treatment Plant Electrical System Upgrades Design Contract to Engineering Design Technologies Corporation, of Tampa, FL, in the amount of \$843,484.

Epic Goal(s): Goal #4 - Be the statewide model for environmental sustainability stewardship.

Boards & Committees: N/A

Budget Impact: Funds for these professional services are budgeted in the Water & Sewer Utility Fund, (Acct. #441-5265-535-6301) in Fiscal Year 2019, under Project #521902. A budget amendment appropriating \$350,000 from Water & Sewer Fund Reserves will be required in order to fully fund this work, which is included in the FY 2020 proposed budget, and will be brought forward to FY 2019.

Past Action: N/A

Next Action: Award future bid for construction contract.

Attachments: [A. Memo of Recommendation \(CA\).pdf](#), [B. Memo of Recommendation \(RF\).pdf](#), [C. Dunedin WWTP Electrical System Upgrades Proposal - 06-25-19.pdf](#), [D. Dunedin WWTP Fee Worksheet - 06-25-19.pdf](#), [E. RFQ Summary Score Sheet.pdf](#), [F. Budget](#)

Background:

The Electrical System Upgrades Project is located at the City's Wastewater Treatment Plant (WWTP) (1140 Martin Luther King Jr. Ave.). The electrical system consists of all electrical gear, motor controls, circuit breakers, transformers, switchgears, etc., required for the proper operation of the WWTP. This project consists of design for the removal of all current electrical equipment and the installation of new electrical equipment. As the plant cannot be taken offline, this project requires the design of temporary motor control centers to allow for the installation of the new equipment.

The electrical system at the WWTP is the original system installed at the time of commissioning of the plant in 1990, which is an outdated technology that has reached the end of its service life. Failure of the electrical system would cause portions of, if not the entire plant to shut down. The replacement of the electrical system will significantly increase the reliability of the WWTP. The completed Master Plan (by King Engineering) identified the replacement of the electrical system as a high priority project for the City that should be completed as soon as possible.

The City received seven (7) submittals of qualifications for this design project. An Evaluation Team (Team) was developed to review and rank the submittals. The team, which consisted of representatives from operations and engineering, evaluated and ranked the qualifications based submittals. As a result of that process, the Team ranked Engineering Design Technologies (EDT) Corporation highest and decided to move forward with negotiating a contract.

Funds for this work are budgeted in the Water & Sewer Utility Fund (Acct. #441-5265-535-6301, under Project #521902). A budget amendment appropriating \$350,000 from Water & Sewer Fund Reserves will be required to fully fund this work.

The Notice to Proceed is planned for the month of August 2019. Design is expected to be Complete by June 2020, after which the project will be bid for construction.

Staff hereby recommends award of this design contract to Engineering Design Technologies Corporation, of Tampa, FL, in the amount of \$843,484.