



**Meeting Date:** October 2, 2017

**Report No.** SUA-17-34

**Agenda Item No.** 2b

**Purpose:** Authorization of a Professional Services Agreement (PSA) with Tetra Tech, Inc. for Project 16SG02 – Replacement of Sanitary Sewer Interceptor and Miscellaneous Improvements

**Budget Impact:** \$150,000 was authorized for this project as part of the FY16 approved budget. Appropriation of an additional \$206,000 is necessary for the recommended action. With the SUA Trustees' authorization, the required funds will be appropriated administratively from the Wastewater Fund, which has sufficient funds for this request.

**Prior Council Action or Part of an Approved Project:** Yes

**Related Items:** FY16 Approved Budget.

**Alternatives:**

- Approve the PSA.
- Reject the PSA. Based on guidance from the Trustees, staff will renegotiate the scope and fee with Tetra Tech or begin negotiations with the next most qualified consultant.
- Cancel the project. Cancelling the project will delay needed improvements to the interceptors and lift stations.

**Recommendation:** Staff recommends that the Trustees authorize expenditures in an amount not to exceed \$356,000, which includes a 10% contingency, for design, bidding and construction services for the Sanitary Sewer Interceptor and Miscellaneous Improvements Project.

**Prepared by:** David Barth, WR Senior Project Manager

**Reviewed by:** William Millis, WR Director

**Reviewed by:** Dan Blankenship, Deputy City Manager

**Submitted by:** Norman McNickle, City Manager

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**Background Information:**

This project includes evaluation of and potential improvements to multiple facilities within the Wastewater Collection System. These facilities include the south and northeast interceptors, the Foxfire, Squires Landing, and Bourbon Street lift stations, and design of a splitter vault near the wastewater treatment plant head works.

The WWCS has two interceptors that convey flow to the WWTP. The south sanitary sewer interceptor (SSSI) extends from the WWTP to southwest of the intersection of Sangre Road and 6<sup>th</sup> Avenue and is divided into seven zones, Zone A to G. Planning for replacement of the SSSI began in 2001 with Zone G, the western-most zone, being designed in 2002 and constructed in 2003. The design to replace Zones A to F was completed in 2005 and construction of those zones has not yet occurred. The northeast sanitary sewer interceptor (NESSI) extends from the WWTP to east of the intersection of Perkins Road and Airport Road.

As derived from the May 2015 interceptor collapse at the WWTP, CCTV video evidence and consultant advice suggests that replacing Zones A and B is a critical need. Since the time that the 2005 SSSI project was initially designed, the 2010 Wastewater Master Plan has been finalized and recommended a smaller design diameter for the interceptor than the 2005 SSSI design diameter. Due to the amount of time that has passed since the original design effort and the inconsistency between the 2005 and 2010 recommendations, evaluation for and updates to the Zone A/B project are necessary. CCTV video evidence also suggests the need to replace a small portion of the NESSI near the WWTP.

The Foxfire lift station was constructed in 1988 and serves the Foxfire development on Lakeview Road. The lift station is in disrepair and replacement of the pumps and controls is necessary. The Squires Landing lift station was constructed in 1982 and has pump related issues that will require replacement in the near future. Recent construction of the nearby Bourbon Street development has made it possible to abandon the Squires Landing lift station and divert sewer flow to the newly constructed Bourbon Street lift station. Removal of the Squires Landing lift station from the WWCS will also save the city O&M expenses normally associated with operating pump stations.

The SSSI and NESSI enter the WWTP headworks separately. The WWTP lacks the ability to combine, split or block the flow from these interceptors prior to the headworks. Installation of a flow diversion vault upstream of headworks is necessary to provide flow management options during maintenance periods.

Water Resources (WR) staff reviewed the Statements of Qualifications submitted to the WR Department by design consultants and five firms were invited to submit proposals for the project. After reviewing and ranking the proposals, WR staff selected and negotiated an agreement with Tetra Tech. The scope of the PSA includes alternative evaluation, final design, bidding and construction oversight services for replacement of Zones A and B of the SSSI, a small portion of the NESSI, and other components of the WWCS as described above.

WR staff is requesting a total authorization of \$356,000, which includes a 10% contingency, for the scope of services previously mentioned. Of this total authorization, \$5,032 was spent previously for data collection and vendor presentation support by Dewberry.