



Meeting Date: August 1, 2016

Consent Docket Item: 2-b

Report No.: SUA-16-39

Department: Water Resources

Subject: Amendment to Professional Services Agreement for Flow Equalization Basin (FEB) Cleaning and Improvements at the Wastewater Treatment Plant (WWTP) – Project #12SG08

Budget Impact: In October 2012, Trustees authorized expenditures up to \$51,000 for professional services on the FEB at the WWTP. To complete the project, staff is requesting an additional \$22,000 (including contingency) for a total professional services authorization not to exceed \$73,000. The additional funds will be appropriated from the Wastewater Fund. Once the additional design work has been completed, the remainder of the project will be bid and an additional authorization will be needed to complete the construction.

Prior Council Action or Part of an Approved Project: Yes

Related Items:

WWTP FEB Evaluation & Cleaning, Design and Construction Professional Services Agreement
[SUA-12-27](#)

FEB Cleaning and Improvements at the WWTP - Construction Contract Award
[SUA-15-48](#)

Alternatives: The project must be completed for the FEB to be functional.

Recommendation: It is recommended that the Trustees authorize staff to execute a professional services amendment with Dewberry for additional design services for the FEB at the WWTP and authorize an increase of \$22,000 for the professional services for a total expenditure limit of \$73,000.

Prepared by: Water Resources Staff

Background Information:

The flow equalization basin (FEB) provides intermittent storage for wastewater flow after screening and grit removal at the Waste Water Treatment Plant (WWTP). SUA Trustees previously approved funding for the evaluation, design and construction of repairs to the FEB. During the construction phase of the FEB Project and after the FEB was emptied, it was discovered that the FEB liner was not properly sealed and the sidewalls were not adequately supported by an appropriate foundation. Also during construction, Meridian Contracting, LLC was unable to provide the required qualifications to perform the side wall crack and joint repair work and submitted an excessively high estimate for repair of the handrails. In total, staff reduced the construction contract by nearly \$84,728.30 and postponed the completion of the liner replacement, sidewall repairs and handrails until further evaluation could be conducted.

Design contingency funded an evaluation of the options for liner replacement by Dewberry, the project engineer. The evaluation provided three liner replacement options: clay liner, synthetic liner and concrete liner. Dewberry recommended the concrete liner, which has an estimated cost 22% higher than clay and 13% higher than synthetic, due to the long term benefits of a lower life cycle cost, no modifications to the aerator mooring system, simplest to maintain, and will be much less affected by the induced aerator water currents. After considering the costs, advantages and disadvantages, staff agreed with and accepted Dewberry's recommendation for replacement with a concrete liner.

Previous authorizations by SUA Trustees for professional services by Dewberry totaled \$51,000, including contingency. Of that total, \$46,195 was for the base contract and \$4,540 was for Contract Amendment No. 1, leaving \$265.00 remaining. Contract Amendment No. 2, for design, bidding and construction oversight, has been negotiated for \$19,500. An additional \$22,000, which includes contingency and permitting, is being requested. This will bring the total authorization for professional services to \$73,000.