



City of Largo Agenda Item 6

Meeting Date
06/12/18

Presenter:

Department:

TITLE:

WASTEWATER RECLAMATION FACILITY (WWRF) BIOLOGICAL TREATMENT IMPROVEMENTS PROJECT BRIEFING

This item is to provide the City Commission with a briefing on the FY 2018 Biological Treatment Improvements project and supporting Florida Department of Environmental Project (FDEP) State Revolving Fund (SRF) loan application process.

The project is complimentary to the Headworks and Disinfection WWRF projects and has two main goals:

The first goal is to improve the plant's ability to remove nutrients, specifically nitrogen, from the waste stream. The driver for this goal is the need to reduce the amount of nitrogen that is discharged into Old Tampa Bay, in order to comply with the City's nitrogen load allocation established by the Nitrogen Management Consortium, and as specified in the City's Administrative Order issued by the FDEP.

The second goal is to replace or rehabilitate aging components of the treatment facility that are reaching the end of their useful life and also to raise or harden portions of the treatment system that are susceptible to flood damage and storm surge.

Since the March 20, 2018 staff report for this project, the selection committee convened and ranked the three shortlisted design-build teams on May 17, 2018. Also during this time, City staff have been developing FDEP State Revolving Fund (SRF) eligibility documents. The estimated milestone dates for both the project and the SRF loan are:

- June 19, 2018 – City Commission meeting: design-build team ranking review/approval
- August 8, 2018 – FDEP SRF Executive Board loan eligibility approval
- August 13, 2018 – City staff submit formal SRF loan application to FDEP
- August 21, 2018 - City Commission meeting: construction guaranteed maximum price (GMP) review/award
- April 1, 2019 – Estimated loan approval

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Budgeted Amount: Budget Page No(s).: Available Amount: Expenditure Amount:

Additional Budgetary Information:

Funding Source(s): Sufficient Funds Available: Yes No Budget Amendment Required: Yes No Source:

City Attorney Reviewed: Yes No N/A Advisory Board Recommendation: For Against N/A Consistent With: Yes No N/A

Potential Motion/ Direction Requested:

Staff Contact:

Attachments:

While the total design-build project cost is still subject to value engineering and guaranteed maximum price discussions, City staff have refined the project and SRF support costs estimates. The four major estimated cost components include:

- \$60,270,000 – SRF loan (construction, 10% contingency, owner's allowance, support services)
- \$ 840,000 – Resident Project Representative (construction inspection services)
- \$ 288,000 – SRF loan compliance services
- \$ 70,000 – Non-select design-build team stipends

The design-build project solicitation yielded three proposals, each taking a slightly different approach to lowering the nitrogen in the effluent and recapitalization of the plant. A summary of the three proposals is as follows:

- | | |
|---------|--|
| Kiewit | \$52,615,680 (subject to GMP and VE discussions) <ul style="list-style-type: none">○ strongest nitrogen reduction design○ highest plant safety features○ solid recapitalization of aging plant assets○ excellent maintenance of plant operations during construction○ strong design build team |
| Haskell | \$48,692,789 <ul style="list-style-type: none">○ deep injection well schedule and performance risks○ less emphasis on biological nitrogen reduction |
| Garney | \$44,999,000 <ul style="list-style-type: none">○ did not use government provided nitrogen data○ solid recapitalization of aging plant assets○ good maintenance of plant operations during construction |

The best value ranking of these three teams was based on a scoring criteria providing up to 40 points for the technical approach, 40 points for the project management approach and 20 points for cost. The selection committee reviewed the proposals and met on May 17, 2018 to rank the three firms. The ranking is as follows:

- 1) Kiewit Infrastructure South
- 2) Garney Companies, Inc.
- 3) The Haskell Company