



Legislation Text

File #: 21-0090, Version: 1

CITY COUNCIL AGENDA ITEM

ACTION REQUESTED:

Approve the award of Procurement Contract 20-052, Springbrook Water Reclamation Center Facilities Plan Phase II, to Donohue and Associates, Inc. for an amount not to exceed \$681,720

DEPARTMENT: Water Utilities

SUBMITTED BY: Darrell Blenniss, Director

BOARD/COMMISSION REVIEW:

N/A

BACKGROUND:

On June 16, 2020, the City Council awarded Contract 20-052 to Donohue and Associates, Inc. for an amount not to exceed \$255,950 to complete an existing facility asset evaluation, conduct a disinfection alternatives analysis and develop a facilities plan for the Springbrook Water Reclamation Center. Using the results of the project, the 2019 Phosphorus Feasibility Study, and other data on plant operations, the consultant made recommendations for a prioritized five-, ten-, and 20-year capital improvement program. The original contract award also allowed the option to use the vendor's services for future phases, including engineering design of disinfection improvements identified during the disinfection alternatives analysis.

Springbrook is required by IEPA to disinfect wastewater effluent prior to releasing it to the DuPage River. The existing disinfection system is currently a chlorination/dechlorination system that is nearing the end of its useful life. The system requires constant staff attention and replacement parts have become difficult to source. The disinfection alternatives analysis performed in the initial phase of the project examined the following alternatives:

1. Chlorination/dechlorination
2. Ultraviolet light (UV)
3. Ozone
4. Peracetic Acid (PAA)
5. Emerging technologies (Performic Acid, Ferrate)

Various criteria were examined during the analysis including initial capital cost, annual operating and maintenance cost, 20-year life cycle cost, operational considerations, safety, constructability and environmental/social factors. UV disinfection was chosen as the preferred disinfection method. It has the lowest life-cycle cost, as well as the best non-cost score. The method does not involve shipping, storing or dosing of chemicals.

DISCUSSION:

Donohue and Associates Inc performed the initial phase of the project which included the disinfection alternatives analysis. Staff recommends the City exercise its right to retain the services of Donohue and Associates, Inc. for the next phase of the project. Phase II of the project will consist of the following engineering services:

1. Pre-selection of equipment;
2. Preliminary engineering;
3. Final engineering, preparation of final plans and specifications;
4. IEPA and City-required permitting;
5. Construction services including shop drawing review, responding to RFI's, field visits and preparation of record drawings.

Due to their performance during the first phase, staff recommends the award of this phase to Donohue and Associates, Inc. to maintain continuity of personnel and avoid duplication of effort, ensuring an efficient continuation of the disinfection improvements project.

FISCAL IMPACT:

CIP: WW044

Consultant services for the Springbrook Water Reclamation Center upgrades are expensed to the infrastructure account listed below, as part of the capital improvement program. A total of \$1,420,000 is budgeted for WW044 in 2021. The requested award is within budget.

Account Number	Fund Description	Total Budget Amount
41251500-551502	Water & Wastewater Fund	\$26,743,950