



AGENDA MEMORANDUM

Action Item for the City Council Meeting of September 20, 2022

DATE: September 20, 2022

TO: Peter Zaroni, City Manager

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Professional Services Contract Amendment
ONSWTP Filtration System Hydraulic Improvements

CAPTION:

Motion authorizing Amendment No. 1 to a professional services contract with Plummer Associates, Inc. Corpus Christi, TX, to provide design, bid, and construction phase services for the ONSWTP Filtration System Hydraulic Improvements in an amount of \$1,168,886 for a total contract value not to exceed \$1,218,859, located in Council District 1, with FY 2022 funding available from Water Capital Fund.

SUMMARY:

This motion authorizes Amendment No. 1 to a professional services contract for design, bid, and construction phase services for improvements to ONSWTP Filtration System Hydraulic. The project proposes to increase the production capacity of WTP1 from 68-million gallons per day (MGD) to 100 MGD, replace filter media, filter valves, gates, actuators, effluent flow meter, repair leaks in Plant 1 filter influent channel, add a humidity control system in both Plant filter galleries, and recoat both plant filter galley piping with insulated coatings.

BACKGROUND AND PURPOSE:

The City of Corpus Christi owns and operates the O.N. Stevens Water Treatment Plant (ONSWTP). The ONSWTP has two filtration buildings: WTP1 and WTP2. The WTP 1 was built in 1955 and the WTP 2 was built in 1981. WTP 1 has twelve (12) filters and WTP 2 has ten (10) filters. WTP 1 produces a maximum of 68-million gallons per day (MGD) of filtered water and WTP 2 produces a maximum of 96 MGD of filtered water.

This project proposes to increase the production capacity of WTP1 to 100 MGD of filtered water due to the increase in demand of filtered water. A contract valued at less than \$50,000 was executed to prepare the preliminary assessment and evaluation to determine the potential improvements and associated cost. The preliminary assessment report was used to plan the Capital Improvement Program (CIP) project and develop the scope of work.

This amendment no. 1 provides the design, bid and construction phase services that will be necessary to complete the project. The scope of this amendment includes 100% design of the listed below items:

- Replacement of filter media in Plant 1 and 2 filters
- Replacement of Plant 1 and 2 filter valves, gates, actuators, and effluent flow meter
- Repair of leaks in Plant 1 filter influent channels
- Addition of humidity control system in both Plant 1 and 2 filter galleries
- Recoating of Plant 1 and 2 filter galley piping with insulating coatings
- Addition of a Plant 1 combined filter effluent (CFE) sample location utilizing a tap added to the 60" pipe by others
- Modifications of the Filter-to-Waste piping for Plant 1 and Plant 2, to achieve a TCEQ compliant air-gap

PROJECT TIMELINE:

2022 – 2023	2023	2023-2025
September - August	September - October	November – November
Design	Bid/Award	Construction

Projected schedule reflects City Council award in September 2022 with design completion by August 2023.

Construction is anticipated to begin in November 2023 with a duration of 24 months and completion by November 2025.

COMPETITIVE SOLICITATION PROCESS

Plummer Associates, Inc. was selected for FY 2018-2019 Capital Improvement Projects and Bond 2018 Remaining Projects, Part B Utilities Projects in February 2019 under RFQ 2018-10. ONSWTP Filtration System Hydraulic Improvements was one of twelve selections that were announced under the Utility Projects Category of the RFQ. Twelve firms submitted under the Utility Category and seven firms were selected.

Plummer Associates, Inc. was selected from six (6) applicants for this project. The selection committee was comprised with representatives from the Utilities Department and Engineering Services. The final evaluation ranked Plummer Associates, Inc. the highest and recommended the firm as most qualified based on five factors: 1) experience of the firm, 2) experience of the key personnel with specific experience in water and wastewater treatment 3) project approach and management plan, 4) capacity to meet the project requirements and timelines, and 5) past performance.

Plummer Associates, Inc. has over 44 years of experience in the planning and design of water-related infrastructure projects and facilities. Plummer Associates, Inc., has served the City of Corpus Christi’s Water and Wastewater Departments for three decades on several projects. Some of the projects are ONSWTP Filter Rehab Project, Citywide Lift Station Evaluation, New Broadway WWTP Rehabilitation Planning Project, and WWTP MSGP Renewals.

ALTERNATIVES:

Council could choose not to award the contract amendment for professional services to Plummer Associates, Inc. This would delay necessary improvements to ONSWTP and create more costly maintenance in the future which may affect the ability to meet the operational and regulatory requirements.

FISCAL IMPACT:

The fiscal impact for FY 2022 is an amount of \$1,168,886.00 with funding available from the Water Capital Fund.

FUNDING DETAIL:

Fund: **Water 2022 CIP (Fund 4484)**
Mission Elem: Water Treatment (062)
Project: ONSWTP Filtration System Hydraulic (19032A)
Account: Outside Consultants (550950)
Activity: 19032-A-4484-EXP
Amount \$974,521.00

Fund: **Water 2023 CIP (Fund 4486)**
Mission Elem: Water Treatment (062)
Project: ONSWTP Filtration System Hydraulic (19032A)
Account: Outside Consultants (550950)
Activity: 19032-A-4486-EXP
Amount \$194,365.00

Total: \$1,168,886.00

RECOMMENDATION:

Staff recommends approval of the professional services amendment no. 1 with Plummer Associates, Inc. in the amount of \$1,168,886.00 for the ONSWTP Filtration System Hydraulic Improvements. The design phase will begin in September 2022 with design completion planned in August 2023.

LIST OF SUPPORTING DOCUMENTS:

Location & Vicinity Maps
Contract
CIP Page
Presentation