

AGENDA MEMORANDUM

Action Item for the City Council Meeting of December 10, 2024

DATE: December 10, 2024

TO: Peter Zanoni, City Manager

FROM: Jeff H. Edmonds, P. E., Director of Engineering Services

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<u>Professional Services Contract Award</u> ONSWTP Solids Handling & Disposal Facility

CAPTION:

Motion awarding a professional services contract to Ardurra Group, of Corpus Christi, Texas, to provide design and bid phase services for a new Solids Handling & Disposal Facility at the O.N. Stevens Water Treatment Plant (ONSWTP) in an amount not to exceed \$4,789,425, with FY 2025 funding available from the Water Capital Fund.

SUMMARY:

This motion authorizes approval of a professional engineering contract to provide preliminary design, permitting, design, and bid phase services for new Solids Handling & Disposal Facility at the O.N. Stevens Water Treatment Plant (ONSWTP) Project.

BACKGROUND AND PURPOSE:

City of Corpus Christi owns and operates the O.N. Stevens Water Treatment Plant (ONSWTP) that treats a blend of surface waters from Choke Canyon and Lake Corpus Christi (via the Nueces River) and Lake Texana and the Colorado River (via the Mary Rhodes Pipeline). The ONSWTP uses a conventional water treatment process (coagulation, flocculation, sedimentation, filtration) for removal of turbidity and naturally occurring organic matter. The combination of these processes generates a solids waste stream that is primarily removed through the sedimentation basins.

Historically, ONSWTP utilized three (3) on-site and four (4) off-site lagoons for storing the solids waste stream. The off-site lagoons are referred to as Pollywogs and have areas designated as wildlife and bird sanctuary and require a permit that must be renewed every 5 years. The Pollywogs have received a major portion of solids in the past and have nearly reached their maximum storage capacity which was confirmed by a survey conducted in 2023.

The City contracted with a 3rd party contractor in 2019 to dredge the on-site lagoons 5 & 6 to restore a good portion of their capacity but these lagoons have been observed to fill at a greater rate with increasing demands and thereby increased solids production. The decant water from these lagoons has the potential to cause water quality issues if the lagoons are operated more than their storage capacities. This current process of storing solids and dredging the lagoons is not efficient and effective. Therefore, it is essential that a new solids handling facility be built at ONSWTP to effectively manage (thicken and dewater) solids as the improvements continue to improve the plant's reliable treatment capacity.

The scope of services for this proposal includes Basic services (Preliminary Design, Detailed Design and Bid Services) plus other Additional Services, as authorized, for the following improvements:

- Gravity thickeners and mixing tank(s).
- Two-story dewatering facility with centrifuges, polymer system, roll-off dumpster area, office/control room and storage room.
- Yard piping, site, grading, drainage, parking lot, access roads, sidewalks, etc.
- Condition assessment and improvements to existing sludge pumps and piping including downstream of the sludge collectors for Basin 1 & 2.
- Evaluate the requirements for one or more new solids pump stations, including wet well, pumps and piping.
- Additional upgrades for a dredging equipment (repurpose existing dredging equipment owned by City or include a bid item for procurement of a new equipment) as needed.
- Electrical & Instrumentation upgrades including a new PCR building and substation.

Construction Phase Administration and other related services are necessary but not currently included in the scope. These will be added and negotiated during the construction award process.

PROJECT TIMELINE:

2025 – 2027	2027	2027 – 2030
January – March	March – August	September – September
Design	Bid/Award	Construction

The project schedule reflects City Council award on December 10, 2024 with anticipated design completion by March 2027 and construction anticipated to start on September 2027 with an estimated construction completion of September 2030.

COMPETITIVE SOLICITATION PROCESS

The Contracts and Procurement Department issued a Request for Qualifications on August 7, 2023, with RFQ Number 5036 for Professional Engineering Services for Capital Improvement Projects FY2024. The City received statements of qualifications from six firms and a technical evaluation

was performed by the selection committee. The selection committee consisted of representatives from Corpus Christi Water (CCW) and Engineering Services.

Firm ranks were based on three factors:

- 1. Experience of the firm
- 2. Experience of the key personnel with specific experience with similar projects
- 3. Understanding of Project Scope

Ardurra Group, Inc. (formerly LNV), has been selected for this project based on experience and qualifications. Ardurra Group, Inc. has worked on City projects for over twenty years and has completed many projects. Notable projects include Ship Channel Water and Gas Main Crossing, Oso WRP Headworks and Lift Station Improvements, New Broadway WWTP, Resaca Lift Station Upgrades, ONSWTP Clearwell No. 3 and ONSWTP High Service Building No. 3.

ALTERNATIVES:

City Council could choose not to award the contract to Ardurra Group, Inc. Not awarding the contract for professional services to Ardurra Group, Inc. will delay necessary improvements and may affect the ability to satisfy the safety, operational, and regulatory requirements.

FISCAL IMPACT:

The fiscal impact for Corpus Christi Water in FY 2025 is an amount of \$4,789,425 with funding available from the Water Capital Fund. Currently the project has \$3,000,000 budgeted for design the \$1,789,425 difference between the budgeted amount and the contract amount will be coming from \$5,780,088 in construction cost savings from the Nueces Bay Blvd & Poth Lane water line replacement project.

FUNDING DETAIL:

Fund: Water 2024 CIP (Fund 4491)

Department: Water (45)

Organization: Grants & Capital Projects Funds (89)

Project: ONSWTP Solids Handling & Disposal Facility (Project No. 23059)

Account: Outside Consultants (550950)

Activity: 23059

Amount: \$4,789,425.00

RECOMMENDATION:

City Staff recommends approval of the professional services contract with Ardurra Group, Inc. in an amount not to exceed \$4,789,425 for the ONSWTP Solids Handling & Disposal Facility Project.

LIST OF SUPPORTING DOCUMENTS:

Location & Vicinity Maps Evaluation Matrix Proposal CIP Page Presentation