AGENDA MEMORANDUM
Action Item for the City Council Meeting of April 8, 2025

DATE: April 1, 2025

TO: Peter Zanoni, City Manager

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Professional Services Contract
Reclaimed Water Infrastructure

CAPTION:

Motion authorizing a professional services contract with Garver, LLC, Corpus Christi, Texas, to provide preliminary design services for the Reclaimed Water Infrastructure project to evaluate and develop a direct and indirect potable reuse plan for the Oso, Greenwood, Allison, Laguna Madre, and Broadway Water Reclamation Plants in an amount not to exceed $1,291,550.00, located Citywide, with FY 2025 funding available from Water Capital Fund.

SUMMARY:

This motion authorizes the approval of a professional services contract for preliminary design phase services for the Reclaimed Water Infrastructure project. It aims to evaluate and develop a direct and indirect potable reuse plan for the Oso, Greenwood, Allison, Laguna Madre, and Broadway Water Reclamation Plants. Additionally, it includes a water characterization study and the development of a pilot plant study protocol.

BACKGROUND AND PURPOSE:

The city has used wastewater effluent for non-potable reuse since the 1960s. Currently, it reuses approximately 3% of the total effluent produced by Greenwood, Oso, and Laguna Madre Wastewater Reclamation Plants (WRP). The remainder is discharged into creeks, bays, and estuaries.

The breakdown of the average monthly reuse of effluent over the past 12 months per plant is as follows:

- Greenwood WRP – 530,000 gallons/month
- Oso WRP – 360,000 gallons/month
- Laguna Madre WRP – 385,000 gallons/month

Allison and Broadway do not reuse any of the effluent that is generated.

This project is necessary to alleviate pressure on the current water resources available to the city due to severe drought in the area and projected future demands. The project will offer professional services for the preliminary design phase to evaluate and develop a direct and indirect potable reuse plan for the Oso, Greenwood, Allison, Laguna Madre, and Broadway Water Reclamation Plants. The plan will include the following:

- A 12-month water characterization study for TCEQ review of water quality and permitting.
- Pilot plant protocol development.
- Conceptual design of Full-Scale Temporary Facility
- Advanced Water Purification Facility Cost Model
- Direct and indirect reuse alternatives.
    - Discharge into the Nueces River upstream of the O.N. Stevens Water Treatment Plant.
    - Injection into groundwater aquifers in an aquifer storage and recovery (ASR) scenario using city provided ASR locations.
    - Selling treated effluent to industrial users.

The pilot plant final design and operation and data collection will be conducted in the next phase of the project under separate task order. The estimated timeline for the next phase is 12 months. The design and construction phases of the project will be developed later depending on the project recommendation.

PROJECT TIMELINE:

2025 - 2026
April - January
Preliminary Design

Project schedule reflects City Council award in April 2025, with anticipated preliminary design completion January 2026. The design and construction phases of the project will be developed later depending on the project recommendation.

COMPETITIVE SOLICITATION PROCESS:

Garver, LLC, was selected in November 2024 under RFQ 6146 for H5 Reclaimed Water Infrastructure, which was one of seven projects announced under the Water CIP Projects category of the RFQ. Eighty-seven (87) engineering firms downloaded the RFQ 6146 and twelve (12) firms submitted for this project The final evaluation ranked Garver LLC, as one of the highest ranked firms based on eight factors: 1) experience on projects of similar scope and complexity, 2) demonstrated capability & capacity on comparable projects, 3) past performance, 4) team members with experience and qualifications, 5) team members experience with work of similar scope and complexity, 6) availability of resources to accomplish the work, 7) demonstrated

understanding of scope of services, 8) demonstrated understanding and experience with similar services with a public agency. The evaluation selection panel consisted of members from the Engineering Department and Corpus Christi Water.

Garver, LLC has provided professional services for other City projects. Some of these projects include Sand Dollar's 16-inch water line connection and the 5-year master plan for Corpus Christi Internation Airport.

Garver, LLC has also provided professional services for other utilities throughout the state, to include Brownsville PUB, San Antonio Water System, and New Braunfels Utility.

ALTERNATIVES:

City Council could choose not to award the design contract which would impact available water resources available to the City.

FISCAL IMPACT:

The fiscal impact for Corpus Christi Water in FY 2025 is an amount not to exceed $1,291,550.00 with funding available through the Water Capital Fund. The FY 2025 project page shows $1.2million is available for the design. The shortfall in the funding of $91,550.00 will be transferred from the Engineering and Administration Reimbursements.

FUNDING DETAIL:

Fund:	**Water 2025 CIP (Rv Bds) (Fund 4492)**
Department:	Water (45)
Organization:	Grants & Capital Projects Funds (89)
Project:	Reclaimed Water Infrastructure (Project No. 25018)
Account:	Outside Consultants (550950)
Activity:	25018
Amount:	$1,291,550.00

RECOMMENDATION:

Staff recommend approval of the professional services contract with Garver, LLC, in the amount not to exceed $1,291,550.00 for the Reclaimed Water Infrastructure project. The preliminary design service will begin in April 2025 with anticipated completion by January 2026.

LIST OF SUPPORTING DOCUMENTS:

Location & Vicinity Maps
Evaluation Matrix
CIP Page
Proposal
Presentation