Capital Improvement Plan

2022 *thru* 2024

City of Corpus Christi, Texas

Project # 18069
Project Name Greenwood WWTP Process Upgrade

Type Improvement/Additions
Useful Life 25 years
Category Wastewater

Department Wastewater
Contact Director of Water Utilities
Priority 2 Critical- Asset Condition

Status Active

Description

This project is to provide process upgrades, replacement and rehabilitation of the existing Greenwood Wastewater Treatment Plant treatment units The City staff has been working on an overall conceptual design of wastewater treatment process upgrades. The whole project scope may include demolishing the existing primary clarifiers, adding aeration basin volume, replacing the existing coarse bubble aeration with fine bubble aeration, installing one new final clarifier, and installing new flow distribution channel to the three final clarifiers, converting Primary Digester Nos. 2 and 3 from anaerobic digesters to aerated sludge holding tanks, replacing the Dissolved Air Flotation Thickener (DAFT) with three rotary drum thickeners, and replacing the belt filter presses with screw / volute presses. Considering budget availability, the whole project will be divided into two phases and completed within approximately 8 years.

Justification

Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan

Expenditures	Prior Years	2022	2023	2024	Total
Construction/Rehab			2,000,000	10,750,000	12,750,000
Testing			50,000		50,000
Inspection			100,000	125,000	225,000
Design	667,675	3,400,000	1,000,000		5,067,675
Contingency			200,000	1,100,000	1,300,000
Eng, Admin Reimbursements	56,551	100,000	50,000	25,000	231,551
Total	**724,226**	**3,500,000**	**3,400,000**	**12,000,000**	**19,624,226**

Funding Sources	Prior Years	2022	2023	2024	Total
Revenue Bonds	724,226	3,500,000	3,400,000	12,000,000	19,624,226
Total	**724,226**	**3,500,000**	**3,400,000**	**12,000,000**	**19,624,226**

Budget Impact/Other

This project will extend the life of treatment plant, improve efficiency of operation and lower overall costs.