## **Updated**

## Capital Improvement Plan

2024 thru 2026

## City of Corpus Christi, Texas

Project # 20084A

Project Name Oso WRP Process Upgrade & BPC Facility Decommission

Type Improvement/Additions

Useful Life 35 years

Category Wastewater

**Department** Wastewater

Contact Director of Water Utilities

Priority Critical- Condition\longevity

**Council District 4** 

**Status** Active



#### Description

Construction of new headworks and lift station at Oso Water Reclamation Plant (WRP) started in FY18. The next phase of work involves secondary treatment improvements and a process conversion to Biological Nutrient Removal (BNR). This will allow the City to decommission current breakpoint chlorination (BPC) system which is currently achieving ammonia removal by chemical addition and will allow plant to maintain permit compliance by removing ammonia more efficiently and safely through biological processes. In addition, equipment associated with secondary treatment units have exceeded original design life and have become maintenance intensive and a hindrance to operations. Scope of improvements include constructing a new 6 MGD train, retrofitting existing aeration basins with fine bubble aeration equipment, construction of new blower building, replacement or rehabilitation of existing scum and sludge removal components on secondary clarifiers, improvements to chlorine contact chambers to address short circuiting, demolition/decommissioning of breakpoint chlorination system, upgrades in the existing belt press building, and other miscellaneous enhancements associated with administrative building, digesters and access roads.

#### Justification

This project is needed to meet operational and regulatory requirements.

Expenditures	<b>Prior Years</b>	2024	2025	2026	Total
Construction/Rehab		14,200,000	29,230,000	29,230,000	72,660,000
Inspection		150,000	280,000	280,000	710,000
Design	5,500,000	1,000,000			6,500,000
Eng, Admin Reimbursements	277,500	100,000	250,000	250,000	877,500
Total	5,777,500	15,450,000	29,760,000	29,760,000	80,747,500

<b>Funding Sources</b>		<b>Prior Years</b>	2024	2025	2026	<b>Total</b> 80,747,500	
Revenue Bonds		5,777,500	15,450,000	29,760,000	29,760,000		
	Total	5,777,500	15,450,000	29,760,000	29,760,000	80,747,500	

### Budget Impact/Other

This project will enable the Oso WRP to run in a more economical and efficient manner. Operational impact is adversely affected when plant is not working at optimal levels. An assessment will be done upon completion of project to determine maintenance costs.

# **Updated**

	WASTEWATER FISCAL YEAR 2024 CIP PROGRAM LONG-RANGE								
	WASTEWATER LONG-RANGE CIP	Funding Needed for FY 2027	Funding Needed for FY 2028	Funding Needed for FY 2029	Funding Needed for FY 2030	Funding Needed for FY 2031	Funding Needed for FY 2032	Funding Needed for FY 2033	Long-Range FY 2027-2033
SEQ	Project Name	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	TOTALS
		WAST	EWATER TREA	TMENT PLANTS					
LR 1	Allison WWTP Lift Station Upgrade and Process					1,000,000	2,000,000	2,000,000	5,000,000
Continua	Improvements tion of short range project E10043					1,000,000	2,000,000	2,000,000	5,000,000
LR 2	Greenwood WWTP Flood Mitigation	4,500,000							4,500,000
Continua	tion of short range project 18070	, ,							,,
LR 3	Greenwood WWTP Expansion	8,000,000	3,000,000	12,500,000	20,000,000	20,000,000			63,500,000
Continua	tion of short range project 25016								
LR 4	Oso WRP Process Upgrade & BPC Facility Decommission	29,760,000	8,300,000						38,060,000
Continua	tion of short range project 20084A	29,700,000	8,300,000						38,060,000
LR 5	Laguna Madre WWTP Rehab					1,000,000	2,000,000	2,000,000	5,000,000
	tion of short range project 18086					1,300,000	2,300,000	2,000,000	5,500,000
LR 6	Wastewater FOG Treatment Facility			200,000	2.000.000	2,000,000			4,200,000
	ect is to provide a Fats, Oil and Grease (FOG) separation facility	to serve the City	of Corpus Christi	· ·	,,.	2,000,000			1,200,000
LR 7	Whitecap WWTP Improvements					1,000,000	2,000,000	2,000,000	5,000,000
Continua	tion of short range project 18087					,,,,,,,,,	,,,,,,,	,,	2,222,222
	WASTEWATER TREATMENT PLANTS LONG-RANGE CIP TOTAL:	42,260,000	11,300,000	12,700,000	22,000,000	25,000,000	6,000,000	6,000,000	125,260,000
		WA	ASTEWATER LIF	T STATIONS					
LR 8	Allison Basin New Lift Station and Force Main	3,500,000	6,500,000	5,000,000		1			15,000,000
Continua	tion of short range project 22009	, ,	, ,	, ,					.,,
LR 9	City-Wide Lift Station Repair	3,000,000	2,000,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	12,500,000
	tion of short range project. This project provides for implementati	, ,							ne City's 103 Lift
Stations.									
	WASTEWATER LIFT STATIONS LONG-RANGE CIP TOTAL:	6,500,000	8,500,000	6,500,000	1,500,000	1,500,000	1,500,000	1,500,000	27,500,000
		WASTE	WATER SYSTE	M MAINTENANC	E				
LR 10	Allison Basin Trunk Main Replacement	1,000,000	10,000,000						11,000,000
This proj	ect will replace the trunk main at Allison basin that reached its use	eful life.				•			
LR 11	Capacity Improvement and Collection System Upgrade Group		10,000,000	15,000,000	20,000,000				45,000,000
This proj	ect will provide city-wide capacity improvements and collection sy	stem upgrades	,,	, ,					13,000,000
LR 12	Capacity Improvement and Collection System Upgrade Group								
	2 ect will provide city-wide capacity improvements and collection sy	stem upgrades		10,000,000	15,000,000	20,000,000			45,000,000
	Capacity Improvement and Collection System Upgrade Group	, 93				ı			
LR 13	3				15,000,000	20,000,000	20,000,000		55,000,000
This proj	ect will provide city-wide capacity improvements and collection sy	stem upgrades			-				
LR 14	City-Wide Collection Capacity Remediation	5,000,000	16,000,000	16,000,000	16,000,000	16,000,000	16,000,000	16,000,000	101,000,000
Continua	tion of short range project 22125	1			-	•			
LR 15	City-Wide Wastewater IDIQ	15,000,000	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000	135,000,000
Continua	tion of short range project 22110				-				
LR 16	Hewitt / Santa Fe Street WW Line Upsizing	5,000,000		5,000,000		5,000,000			15,000,000
Continua	tion of short range project 23007								