



Agenda Item: Update on Beach Nourishment Projects

Background:

The 2022-2023 fiscal year will prove to be busy for beach nourishment in Galveston. This document is to provide an update on the projects that will have some type of construction activity in the next fiscal year. These projects are made possible in part due to our relationship with the Texas General Land Office (GLO) Coastal Erosion Planning & Response Act (CEPRA) team who assist with project management & funding. The Federal Emergency Management Agency (FEMA), the City of Galveston Industrial Development Corporation (IDC) and the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies (RESTORE) Act also provide funding assistance.

Dellanera Beach/Dune Harvey FEMA Repair – This project is in partnership with the GLO CEPRA team. In 2015 a beach and dune project were completed from the end of Seawall to the west property of Dellanera RV Park with Hurricane Ike funds. Hurricane Harvey once again impacted the area in August 2017 resulting in the loss of **118,668 CY** of beach quality sand. This project will restore the impacted beach area to its pre-disaster condition.

Funding Partners:

- Park Board FEMA
- GLO CEPRA/GOMESA

Current project schedule:

- Construction award/contract – in process at the GLO
- Construction window – September 29, 2022 to February 28, 2023 (per City of Galveston)

Engineering and Design from Dellanera’s West Boundary to 13 Mile Road Beach Nourishment -- A project was identified in the Texas Coastal Resiliency Master Plan as a priority project (I.D. #R1-22) and proposed to develop a set of engineering and design documents to undertake a beach nourishment project between the area west of Dellanera RV Park to 8-Mile Road. After the storms of 2020, additional nourishment activities were identified as important on the west end of Galveston, therefore an additional CEPRA application was made to extend the engineering project to 13 Mile Road. This extended area includes multiple heavily populated subdivisions and public beach access points. Once completed, these design documents would be used to construct a beach nourishment project funded by the State.

Funding Partners:

- GLO CEPRA
- City IDC

Current project schedule:

- Contract with design Engineer – in process at the GLO
- Surveying -- ~ 45 days
- Engineering & design -- ~ 145 days

Babe’s Beach Galveston Beneficial Use of Dredge Material (BUDM) -- This project is in partnership with the United States Army Corps of Engineers (USACE), RESTORE, the GLO and the IDC. The project will fund BUDM to

the Babe's Beach area as a piece of a larger project for USACE with maintenance dredging of the federal navigation channel. Previously successful BUDM projects were completed in the Babe's Beach area in 2015, 2019 and 2021. The project footprint will most likely begin west of 89th St. and head west. Cubic yardage (CY) for the project will depend on the amount of beach quality material dredged from the Houston-Galveston ship channel. The project lead will be USACE.

Funding partners:

- GLO CEPRA/ GOMESA
- City IDC
- RESTORE

Current project schedule:

- Draft Plans and Specs – 9/28/22
- Bid Advertisement – 12/14/2022
- Bid Opening – 1/17/2023
- Award – 2/15/2023

Babe's Beach Repair Harvey FEMA – Much like the other beaches in Galveston, Hurricane Harvey impacted Babe's Beach as well. Due to the ongoing projects in that area with USACE and GLO the Park Board has been working to find alternate ways to tie in a FEMA funded effort for a fairly small quantity of material to be placed on the beachfront between 61st and 75th Streets. This project is important because the Park Board garnered a FEMA project obligation for a previous BUDM beach construction. The Park Board currently does not have a project schedule for this repair project.

Funding partners:

- FEMA
- GLO CEPRA

Historic Stretch -- This project will be led by the GLO CEPRA team. The Park Board and the City of Galveston are not funding partners for the project. This project is a direct result of Hurricane Harvey (2017), which impacted the Seawall Beaches from 12th to 61st St with a loss of 216,342 CY of beach quality sand. This project will restore the impacted beach area to its pre-disaster condition. The Park Board currently does not have a project schedule for this repair project.

Funding partners:

- FEMA
- GLO CEPRA/GOMESA