

APRIL 2024



NFWF



# DAUPHIN ISLAND EAST END BEACH AND DUNE RESTORATION PROJECT

## How Sand Moves

### Expected Project Progression (April 2024)

In the coming weeks you can expect the beach to narrow in width as the constructed project equilibrates to the tides and waves. Sand moves east to west naturally in our barrier island system. Some sand moves offshore. The change in beach width as a result of sand movement is normal and expected. The biggest changes will occur in the weeks and months immediately after construction.

The drivers of changes on the beach include typical wave climate and storm events. These events cannot be predicted. However, the good news is that the sand placed will stay in our littoral (nearshore) system for many years to come. With an engineered beach, the Town is eligible for FEMA cost-sharing program after named events to help maintain the beach. The Town is working with the USACE to also find future opportunities to renourish our island habitats.

This series of renderings shows how the beach will most likely adjust to our local tides, waves, currents, and storm events over the weeks, months, and years to come. Because storm events play an important role in shaping the beach, we cannot predict exactly when, or by how much, the shoreline will change.

The Dauphin Island East End Beach and Dune Restoration Project is funded by the National Fish and Wildlife Foundation (NFWF) Gulf Environmental Benefit Fund and National Coastal Resilience Fund. Contact: Town of Dauphin Island, 1011 Bienville Blvd, Dauphin Island, AL 36528 | Tel: 251-861-5525

