



US Army Corps
of Engineers®
Norfolk District

Continuing Authorities Program, Section 204, Beneficial Uses of Dredged Material, Cedar Island, Virginia



Measures Considered in this Study

- Thin-layer spraying of dredged material for wetland enhancement
- Dredged material reuse to create (restore) wetland
- Reef habitat creation
- Dredged material reuse for beach nourishment

What is a Planning Measure?
A measure is an action that achieves a planning objective.

Thin-Layer Spraying of Dredged Material for Wetland Enhancement

- Spray dredged material onto existing cordgrass (*Spartina alterniflora*) dominated tidal wetlands.
- Serves as a wetland enhancement to maintain existing native, tidal wetland communities
- Helps to maintain subsiding tidal marsh elevations facing sea level rise threats



Tidal Wetland Creation

- Create tidal wetland habitat with dredged material in open water areas that were historically tidal wetlands
- Would be planted with native, tidal plant species
- Temporary containment will be used during construction and initial wetland acclimation
- Helps to maintain subsiding tidal marsh elevations facing sea level rise threats



Reef Habitat Creation

- Construct subtidal to tidal reef habitat with shell and/or alternative substrate materials.
- Location has adequate salinity and dissolved oxygen conditions for oyster reefs
- Would help to “contain” dredged material naturally



Beach Nourishment

- Spray dredged material onto existing Atlantic-facing beach habitat on Cedar Island
- Dredged material is not suitable for beach nourishment (not suitable sand content) so this measure was not carried forward in plan formulation

