

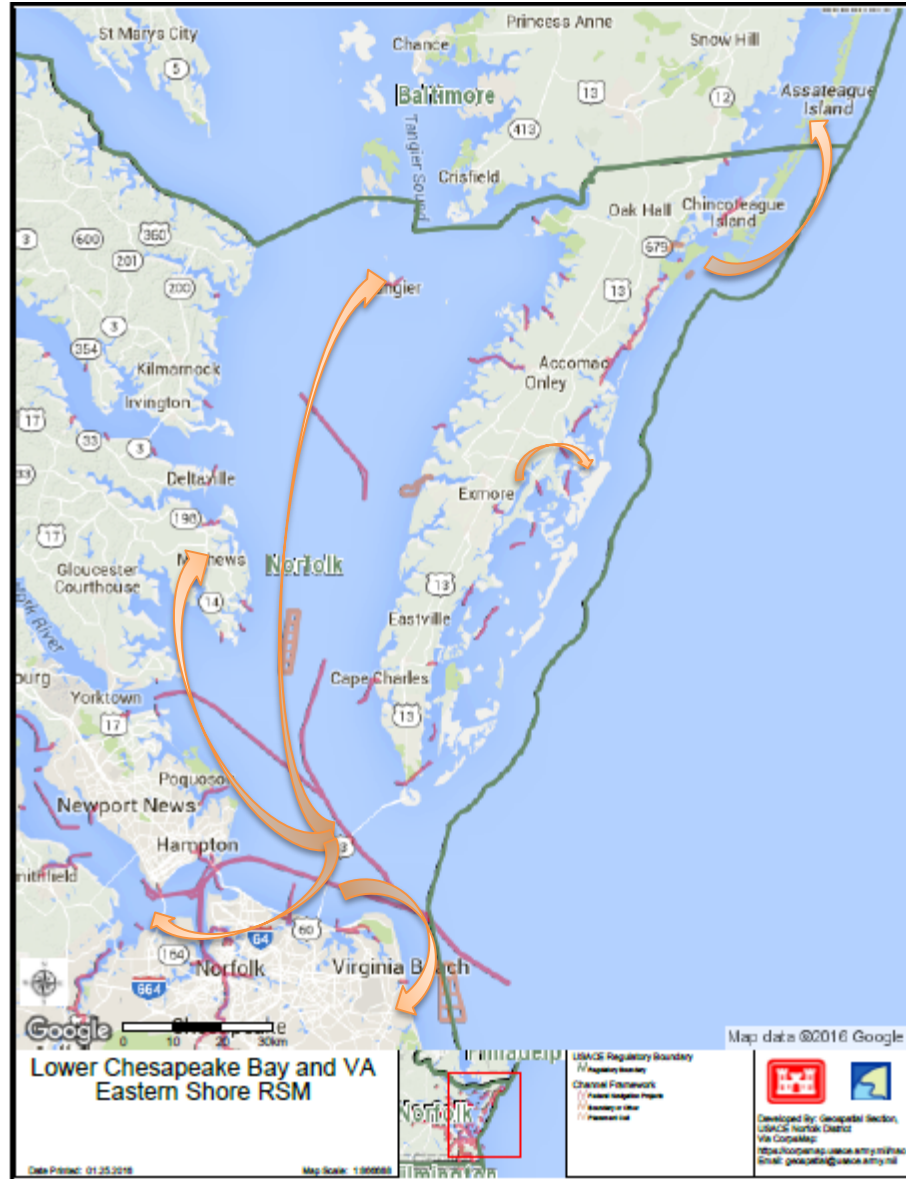


# Regional Sediment Management Program Norfolk District (NAO): Lower Chesapeake Bay and Eastern Shore Regional Cost Analysis RSM



## Description

The US Army Corps of Engineers (USACE), Norfolk District (NAO), will identify combinations of sediment sources and needs of recent interest in the lower Chesapeake Bay and Virginia Eastern Shore and develop rough orders of magnitude cost estimates to construct paired projects, including considerations of prior Regional Sediment Management and Section 22 Planning Assistance to States efforts. The cost estimates will include a listing of risks and unknowns, and will serve as a catalogue of current projects that could have potential to be successful as combined projects.



Possible Chesapeake Bay and Eastern Shore Sediment Source and Receiver Site Combinations



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## Issue/Challenge To Address

The Norfolk District is examining combinations of USACE and others' navigation and shoreline projects to determine if the cost of an overall managed program is less than the total of individual stand-alone projects.

## Successes Lessons Learned

Lessons learned will be compiled during the duration of this study.

## Expected Products

- Mapping to demonstrate project pairs,
- Rough order of magnitude quantity estimates, assumptions and unknowns
- Matrix of Alternatives and combinations
- Addition of costs into matrix
- Quarterly reports, letter report, travel, final Technical Note

## Stakeholders/Users

Stakeholders will be identified during the RSM effort. In the past the following have express interest in RSM efforts:

Partnering Program/Initiative	Leveraging Potential
O&M General	Beneficial uses of dredged material
O&M, CAP, GI	Island Restoration, Crane Island Eastward Expansion Conversion of Habitat Chincoteague Inlet
Corps, Community, and local sponsor concerns	Willoughby Shoreline Anoxic Trough Habitat Shoreline changes Lynnhaven River Basin Chesapeake Bay Bridge Tunnel Replacement Assateague Island
Prior work efforts	Western Shore Section 22 Studies 933 Studies Shallow Draft Navigation Pilot Projects Beneficial Use Strategies Analyze historic mapping to identify whether lower bay islands have vanished over time
Superstorm Sandy Recovery	Opportunities at several existing O&M navigation projects
Corps Regulatory Program	Data availability of current and prior shoreline projects

## Projected Benefits

- Documentation of potential project pairings
- Cost estimates of individual project combinations
- Cost estimates of potential combinations of combinations to determine if a basket of projects managed as a program is more efficient than individual projects.

## Leveraging Opportunities

Potential project partners that could leverage with Corps efforts include: Virginia Port Authority, NASA, National Park Service, Cities of Norfolk and Virginia Beach, the Chesapeake Bay Bridge and Tunnel District

## Points of Contact

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## Participating Partners

None Identified, potentially Public Private Partnership (P3)