

FY13 RSM IPR

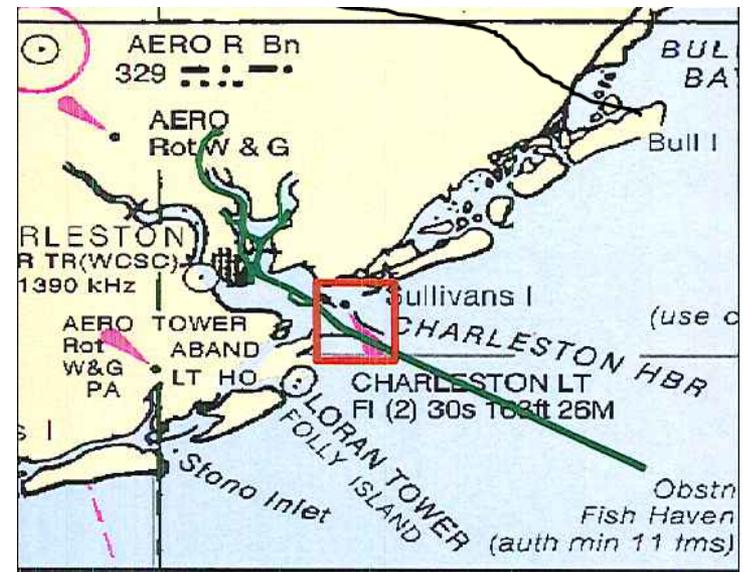
Charleston District, Vibracore Collection, Sara Brown

Description/Challenges

- Obtain vibracores of the depositional area inside the jetties and have analysis performed for composition and grain size.
- Charleston Harbor Post 45 study performing vibracore data collection of entrance channel - add onto that contract and save mobilization and demobilization costs.
- Challenge: Wait on POST 45 Contract
- Wait on and 3-3-3 guidance

Objectives

Determine composition and compatibility for beach placement along adjacent southern shorelines or possible nearshore placement to the south.



.BLUF: Building block for system analyses

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Approach

(including Tools/Models/Data Used)

- Anamar Environmental Consulting Inc contract as part of Post 45 Harbor Deepening Study
- Cores equally spaced through subject area.
- Five cores were split into 18 samples.

Deliverables

- Field Data and analysis complete Dec 2012
- Final Report of Sediment Analysis, March 2013



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Accomplishments/Benefits/Lessons Learned

- Percent sand ranged from 37.5 % to 91.3 percent
- All samples were predominantly sand (> 50%) except DEP12-3-C and DEP12-4-C which were clay and silt.



Opportunities to take action

- Incorporate into CMS modeling – funded by O&M
- Built on offshore Bathymetric data collection funded by 204 and Post 45 study.
- Wave and current data collection offshore in conjunction with ODMS funded by Post 45 study.
- Determine benefits to southern island (Folly, Morris)



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District PDT Members

- Sara Brown – RSM Coordinator.
- Mark Messersmith – Biologist
- Alan Shirey - Environmental Engineer
- Brian Williams – Post 45 PM
- Greg Dreaper – GIS Administrator
- Caleb Brewer – GIS Specialist
- Phil Wolf – GIS Coordinator
- David Warren _ PM Navigation
- Brandan Scully – Chief, Navigation
- Carole Works – Chief Engineering

Stakeholders and Partners

- South Carolina State Port Authority
- Environmental Agencies (SCDHEC-OCRM, NMFS, USFW)
- South coast Communities (Folly Beach)
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Leveraging/Collaborative Opportunities

- Post 45 Data Collection/Study
- Charleston Harbor Offshore Modeling
- Post 45 Coastal Modeling – PED phase
- Possible RSM study
- (Possible) Section 204 Study
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