

FY16 RSM IPR

New England District, Saco Bay Regional Sediment Management, John Winkelman

BLUF: The Saco Bay system contains two maintained navigation channels and a nearly completed Section 111 project at the up drift end of the system. The effort is to optimize the use the dredged maintenance sand within the system to meet the needs of the Section 111 project and the other coastal needs.

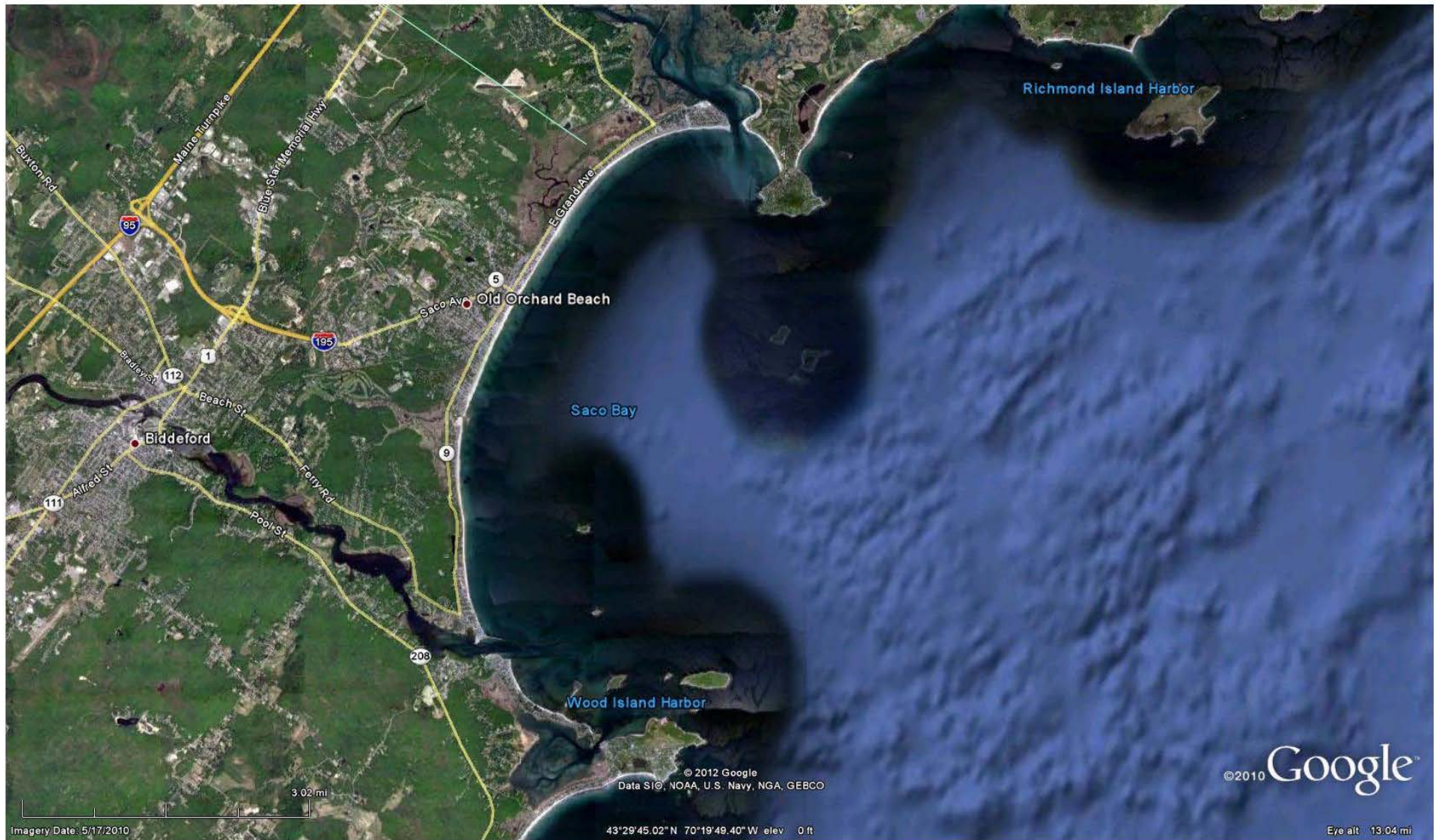
Description/Challenges

- Pushing (dragging) Section 111 across the finish line
- Un-classifying sand as waste management

Objectives

- Develop RSM Strategy
- Stake holder meetings summer 2016
- Achieve stake holder and agency buy in
- Be ready to roll when Section 111 project moves to construction and maintenance





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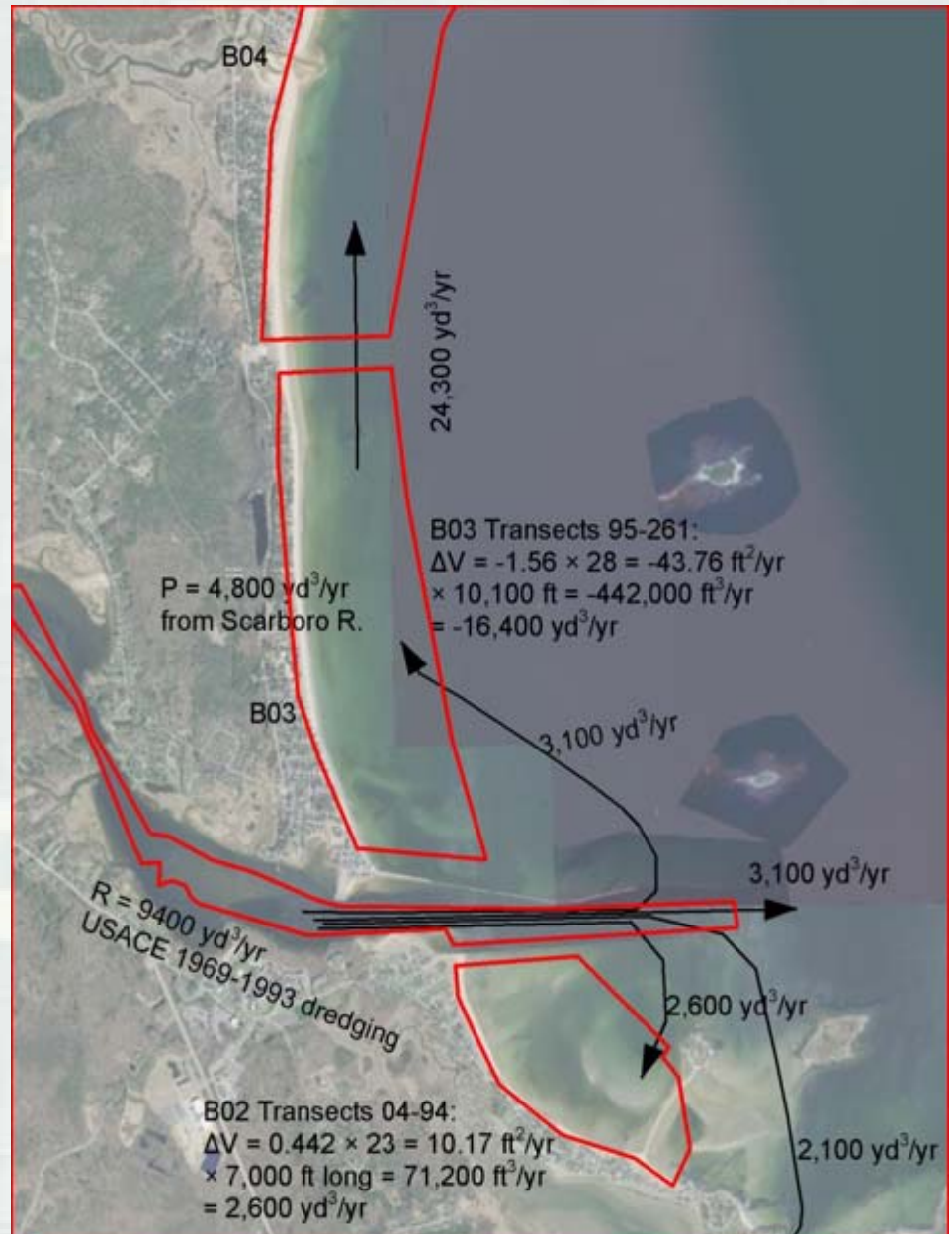
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Approach

- Shoreline change mapping
- STWAVE, CGWAVE, Bouss 2D
- Sediment transport rate (potential)
- Maintenance dredge records
- Large efforts by Woods Hole Group
- Significant efforts completed by Maine and Universities
- **Sediment Budget (SBAS)**

Deliverables

- Sediment Budget is the big product 2014
- CHETN - Saco Bay, Maine: Sediment Budget for Late-20th Century to Present 2015

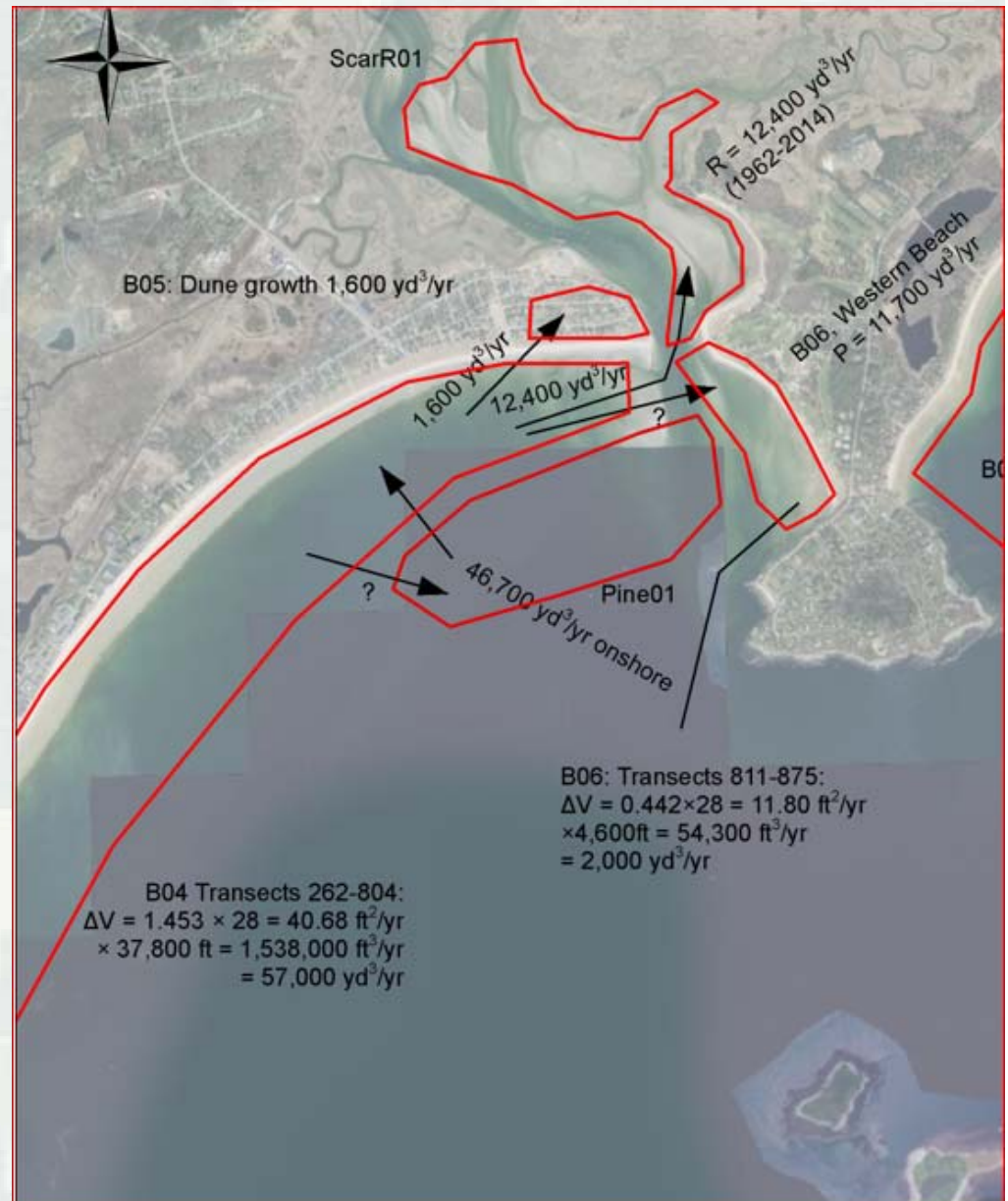


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Accomplishments/Benefits/Lessons Learned/Actions-construction

- We have quantified the sediment need
- We have quantified the sediment available from the Saco River Channel and the Scarborough River Channel
- Sediment budget showing adequate sand to meet all needs



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District, Title

What is working? Ups? Success?

- Technical work has been successfully developed and used
- Identified a need and identified sources
- Showed the volumes available through a sediment budget

What is not working? Downs? Issues?

- The Corps project implementation process



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District/Other USACE PDT Members

John Winkelman – Coastal Engineering
Mark Habel – Navigation Planning
Craig Martin – Navigation
Ed O'Donnell – Navigation
Todd Randall - Environmental

Stakeholders and Partners

- City of Camp Ellis, Maine
- Pete Slovinsky – ME Geological Survey
- Steve Dickson – ME Geological Survey
- Save our Shores (SOS) – Camp Ellis and Ferry Beach
- Kirk Bosma – Woods Hole Group

Leveraging/Collaborative Opportunities



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Value to the Nation

- Time and funding spent to locate beneficial placement areas.
- Maintaining sandy shoreline habitat (piping plover).
- Initial Fill 400,000 cyds
- Annual need of Section 111 16,000 cyds
- Minimum direct savings to USACE of \$320,000/year (\$20/yard savings for 16,000 cyds)
- Likely direct savings to USACE of \$480,000/year (\$30/yard savings for 16,000 cyds)
- Law suit avoidance



