Upper North Shore Regional Shore Protection Strategy Development and Needs Assessment

Kick-Off Meeting

January 6, 2026

Timeline

Work Task	Estimated Completion Date
Award to Consultant	December 18, 2025
Task 1: Kick-off meeting	January 6, 2026
Task 2: Review of existing data and data collection	December 18, 2025 – February 15, 2026
Task 3: Updated coastal processes modeling and analysis	December 18, 2025 – April 15, 2026
Task 4: Modeling and analysis of shoreline stabilization alternatives	January 15, 2026 – June 1, 2026
Task 5: Project Report	March 1, 2026 – June 30, 2026
Task 6: Meetings and public outreach	December 18, 2025 – June 30, 2026
Completed Project	June 30, 2026

Budget

FY26 Coastal Resilience Grant - Beach Nourishment Needs Assessment, Salisbury, Newburyport, Newbury, MA						
Project Task Description	**Deliverables**	**Deliverable Due Date**	**Invoice Due Date**	**Grant**	**Match**	**Total**
Task 1:						
Kick-Off Meeting	Meeting Minutes	January 6, 2026	January 31, 2026	$ 4,160	$ -	$ 4,160
Total Task 1 Cost				$ 4,160	$ -	$ 4,160
Task 2:						
Review of Existing Data and Data Collection	Meeting Presentation Materials to Management Team*	February 15, 2026	February 28, 2026	$ 33,550	$ -	$ 33,550
Total Task 2 Cost				$ 33,550	$ -	$ 33,550
Task 3:						
Updated Coastal Processes Modeling and Analyses	Meeting Presentation Materials to Management Team*	April 15, 2026	April 30, 2026	$ 81,040	$ -	$ 81,040
Total Task 3 Cost				$ 81,040	$ -	$ 81,040
Task 4:						
Modeling and Analyses of Shoreline Stabilization Alternatives	Meeting Presentation Materials to Management Team*	June 1, 2026	June 1, 2026	$ 53,080	$ -	$ 53,080
Total Task 4 Cost				$ 53,080	$ -	$ 53,080
Task 5:						
Project Report	Project Report*	June 30, 2026	July 1, 2026	$ 29,000	$ -	$ 29,000
Total Task 5 Cost				$ 29,000	$ -	$ 29,000
Task 6:						
Meetings and Public Outreach	Meeting Presentations and Monthly Updates*	June 30, 2026	July 1, 2026	$ 32,000	$ -	$ 32,000
Total Task 6 Cost				$ 32,000	$ -	$ 32,000
* Note interim deliverbles on these tasks						
TOTAL PROJECT COST				$ 232,830	$ -	$ 232,830

Interim Deliverables

Task 1: Kick-off Meeting

Subtasks/Deliverables:

Kick-off Meeting PowerPoint and Meeting Notes

Task 2: Review of Existing Data and Data Collection

Subtasks/Deliverables:

Compilation of existing data

Raw data files (.xlsx, .shp) where applicable:

- Grain size collection data
- Shoreline delineation
- Resource area delineation

Brief existing summary of:

- Shoreline and bathymetric surveys
- Sediment processes
- Wave processes
- Coastal infrastructure inventory
- Existing natural resource inventory
- Potential sediment sources

Interim Deliverables

Task 3: Updated Coastal Processes Modeling and Analyses

Subtasks/Deliverables:

Interim wave modeling update

Interim sediment transport modeling update

Update Memo (end of analyses)

Task 4: Modeling and Analyses of Shoreline Stabilization Alternatives

Subtasks/Deliverables:

Outline of alternatives

Interim update on alternatives assessment

Alternatives analysis report

- Three shoreline nourishment alternatives for the two open ocean stretches
- Rating matrix
- Consideration of borrow sites

Interim Deliverables

Task 5: Project Report

Subtasks/Deliverables:

Draft:

- Beach specific alternatives
- Environmental impact assessment
- Sediment sources assessment

Final draft:

- Revised draft (comments)
- Conceptual plans, as appropriate

Task 6: Meetings and Public Outreach

Subtasks/Deliverables:

Meeting power-point #1

Meeting power-point #2

Outreach materials (“flyers” in .docx or .pdf) – to be developed jointly

Meeting with management team (Towns and CZM personnel) expected monthly for status updates.

Technical Approach

Review Existing Data and Data Collection

Every site is different. Updated site-specific data is needed to inform models and designs.

› **Holistic** approach: considering observations, historical data, sea-level rise, storm effects, and more.

› Staff experienced in data collection and analyses

› Stream-lined process due to our past local experience

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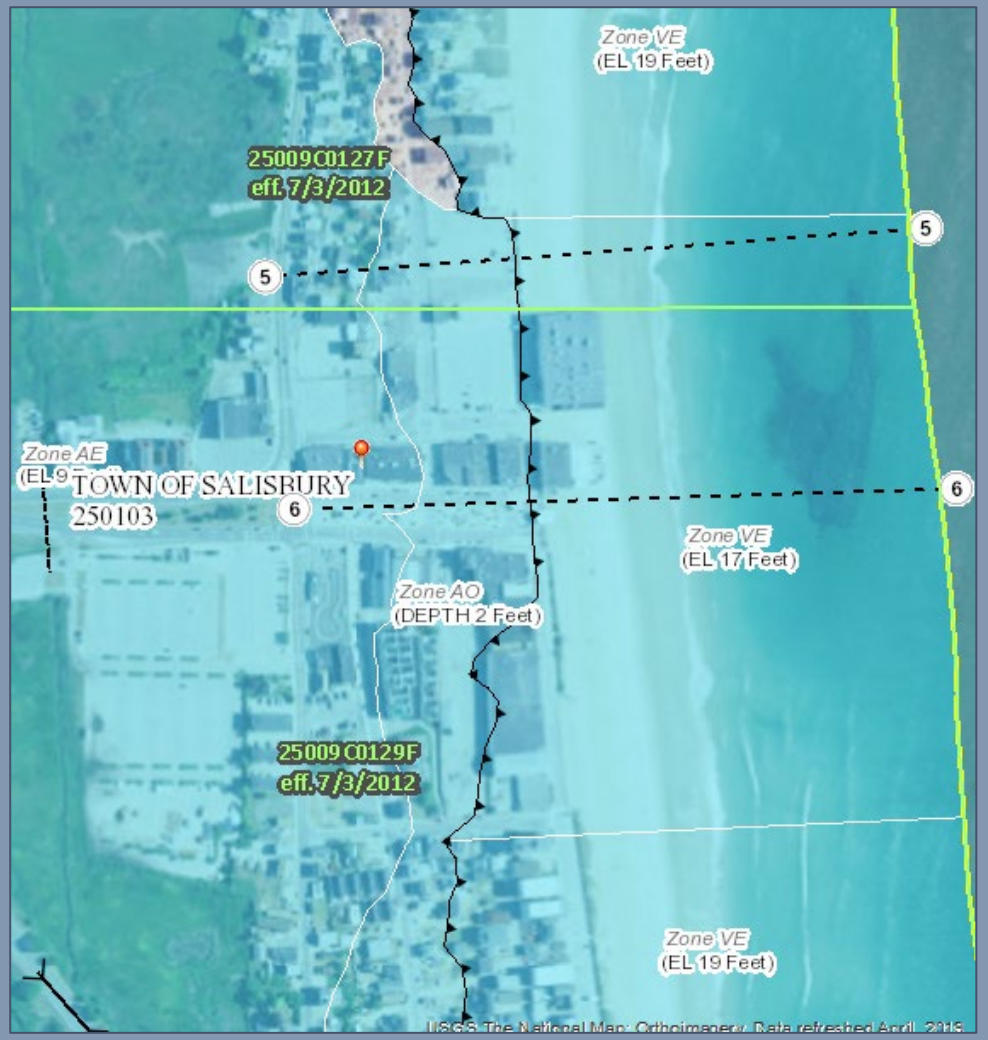

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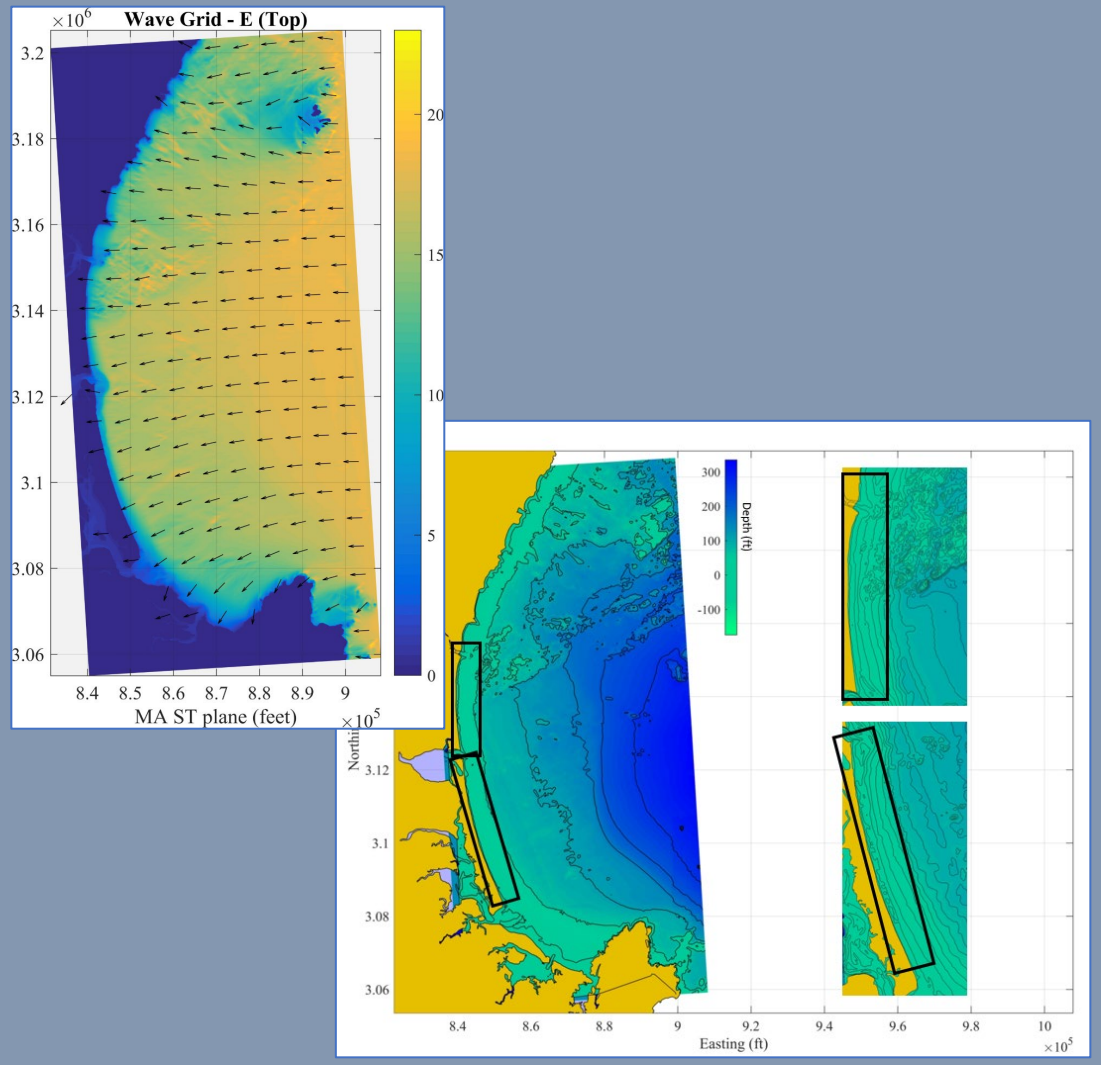
Technical Approach

Coastal Processes Modeling

Updated modeling based upon recent changes resulting from storm activity and more recent management

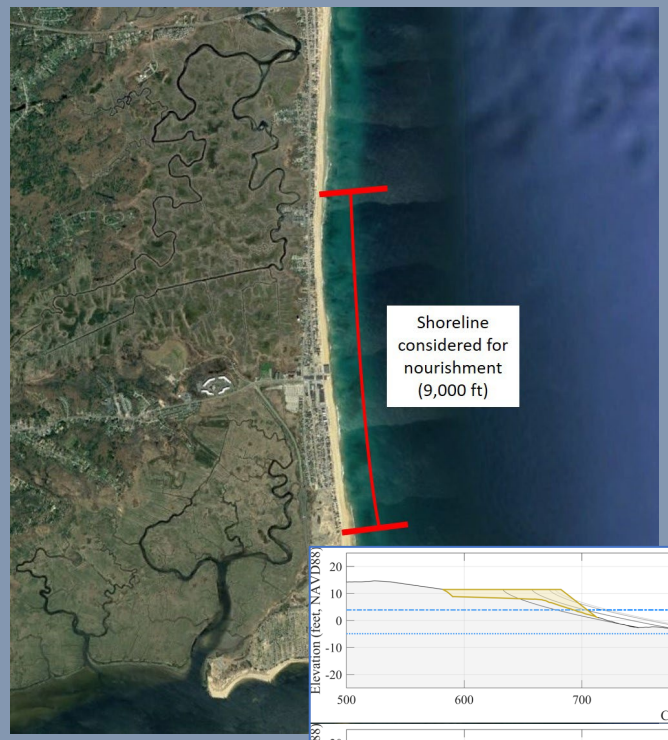


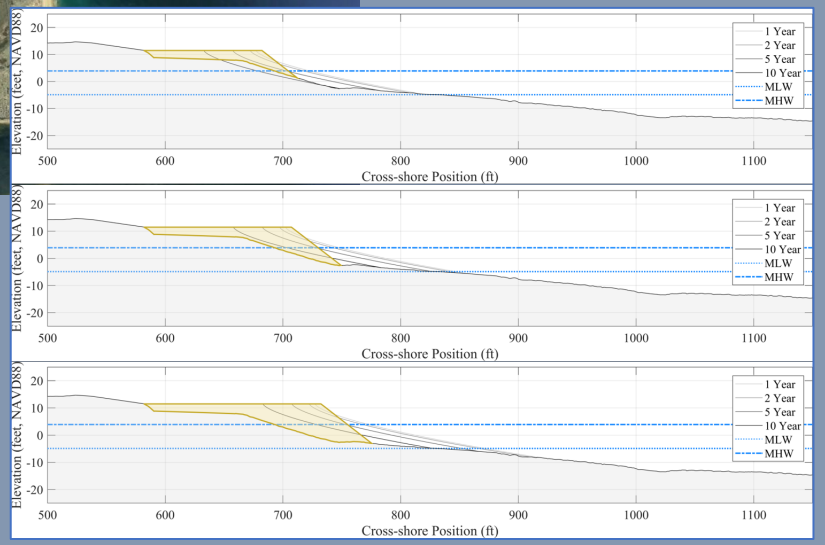
› **State-of-the-Science Modeling**: utilizing updated techniques for wave and sediment transport model simulations

› Models validated against local data

Technical Approach

Analysis of Shore Protection Alternatives





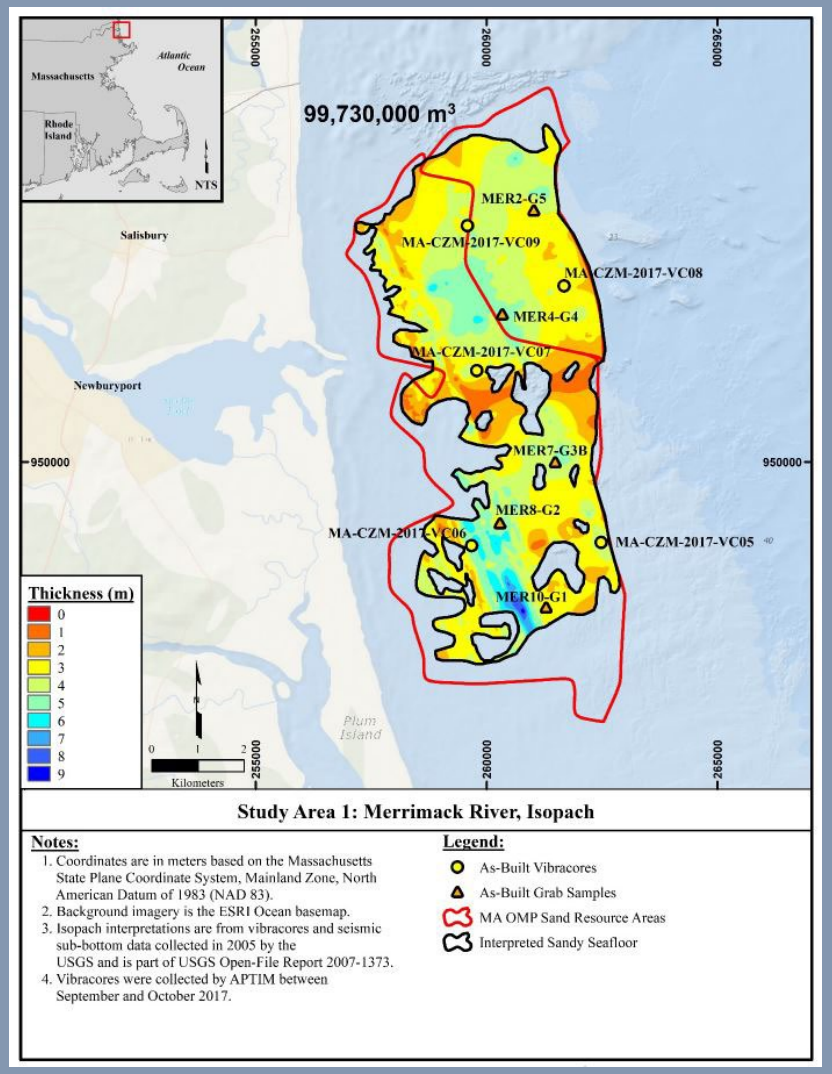
› **Broad Alternatives Analysis**: evaluation of full range of potential options for mitigating both coastal erosion and flood risk

› Recommendations for prioritizing flood and erosion mitigation alternatives

› Consideration of environmental regulatory concerns associated with various options

Technical Approach

Analysis of Shore Protection Alternatives



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SCS

Public Engagement

Explaining complex issues to the public

INTRO | WHAT WE HEARD | CONSIDERATIONS

Construction + 50-year Maintenance Costs for 2016 Study Recommendations

- < $30M
- $30-60M
- $60-90M
- > $90M

INTRO | WHAT WE HEARD | CONSIDERATIONS | BREA

Key themes in the emerging

Beaches: Several distinct beaches that a accessible

The Harbor: A gathering place for the c destination, businesses out of harm's way.

Coastal Development: Mix of built and natural, with built areas being safe and natural areas connected to each other.

Community Character: Classic New England small town feel year-round and a summer destination.


Q&A