

An aerial photograph of the Nags Head coastline, showing a mix of residential areas, greenery, and sandy areas along the shore. The ocean is visible on the left and right sides of the image.

The Town of Nags Head
Estuarine Shoreline Management Plan

Meeting Outcomes and Agenda

- Shoreline Science
 - Reide Corbett overview on shoreline changes and stabilization
- Project Overview & Schedule
 - ToNH planning context
 - Schedule review
 - Discussion: Keys to success
 - Amanda Zullo on Outreach Plan
- Goal Setting & Priorities
 - Discussion: Plan elements & notable sites
 - Project Goals discussion

Technical Considerations

System Parameters

- Erosion history
- Sea level rise
- Accretion/sedimentation

Hydrodynamic Parameters

- Wind waves
- Wakes
- Currents
- Storm surge

Ecological Parameters

- Water quality
- Soil type
- Sunlight exposure
- Proximity to natural marsh

Terrestrial Parameters

- Upland & shoreline slope
- Nearshore slope
- Offshore depth
- Soil bearing capacity (stability)

Property Parameters

- Ownership
- Local flooding
- Infrastructure
- Viewsheds
- Water access

after Miller et al 2016 for NJ DEP

Project Elements and Schedule

SCHEDULE	2021			2022												
	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Task 1: Project Management																
Task 2: Kick off	█															
Regular Check-ins	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Task 3: Outreach Plan & Materials	█	█	█													
Advisory Committee Meetings			●		●			●		●		●				
Task 4: Science + Data Review	█	█	█													
Task 5: Initial Site Tour & Stakeholder Meetings	█	█														
Task 6: Engineering Assessment of Energy and Erosion																
Shoreline Energy					█	█	█	█	█	█	█					
Erosion Rate		█	█	█	█											
Monitoring Requirements								█	█	█	█					
Task 7: Legal and Land Use Analysis				█	█	█	█	█								
Task 8: Typologies and Project Selection								█	█	█	█	█	█	█	█	█
Concept Designs for Select Sites												█	█	█	█	█
Public Review Meetings											●					
Client Review Meeting										●						
Task 9: Estuarine Management Plan														█		

Project Elements and Schedule

- Public Input
- Public Education
- Engineering & Modeling
- Legal & Permitting Analysis
- Site Selection
- Site-specific Design Solutions
- Visualization & Final Plan
- Implementation



Outreach Plan Participants

COMMUNITY/ ORGANIZATION

ROLE / PARTICIPANTS

Town of Nags Head

Holly White, Project Manager (Co-PM)
Kate Jones, Senior Environmental Planner (Co-PM)

Biohabitats

Jessica Norris, Consultant Team Lead (PM)

Moffatt & Nichol

Amanda Zullo, Outreach Plan Lead

Advisory Committee

Advisory Group comprised of ten (10) community volunteers selected by the BOC, and three ex officio land-owner members from the Nature Conservancy, Jockey’s Ridge State Park, Nags Head Golf Links, NCDOT, DCM

Technical Experts

NC Coastal Federation, Coastal Studies Institute

Stakeholders & Intended Audiences

Estuarine Shoreline property owners (estimated +200), recreation users, Outer Banks community, NC SeaGrant, Town’s social media followers and email subscribers

Advisory Committee Roles/Responsibilities

- Key, knowledgeable stakeholders to work actively with Town of Nags Head, Biohabitats, and M&N
- Convene during the planning process to shape the goals, policies, and recommendations of the plan
- Help identify and engage stakeholders
- Attend a minimum of five (5) Advisory Committee (AC) meetings
- Attend Public Workshop Meeting (optional)
- Provide targeted input

Outreach & Community Engagement Process

TASK #	TASK ITEM	SCHEDULE	KEY OUTREACH MILESTONES
1-5	Project Kick-Off, Visit, Planning	October – December 2021	<ul style="list-style-type: none"> • Develop Outreach Plan • Develop and Publish Project Webpage • Advisory Committee Meeting #1 – Goals and Outreach Plan • Develop and Public Project Information Fact Sheet
6 & 7	Engineering, Legal and Land Use Analysis	January – March 2022	<ul style="list-style-type: none"> • Advisory Committee Meeting #2 – Land use findings, spring outreach efforts and survey review
8	Typologies and Project Selection	March – June 2022	<ul style="list-style-type: none"> • Public Survey #1 • Advisory Committee Meeting #3 – Typology & Project Selection • Advisory Committee Meeting #4 – Top 10 Project selection • Public Survey #2 & Public Workshop Meeting
9	Draft Management Plan	July – November 2022	<ul style="list-style-type: none"> • Advisory Committee Meeting #5 – Draft Presentation



Advisory Committee (AC) Meeting Schedule

AC #	SCHEDULE	FORMAT	TASKS
1	Dec 15	Virtual	<ul style="list-style-type: none"> • Education/Communication themes • Feedback on Outreach Plan • Finalize project goals
2	February 2021	In Person	<ul style="list-style-type: none"> • Town staff-led advisory committee meeting to present topics and decision-points from the legal and land use analysis as related to Comprehensive Planning
3	April 2022	Virtual	<ul style="list-style-type: none"> • Typology & Project Selection Criteria review
4	June 2022	Hybrid	<ul style="list-style-type: none"> • Findings and updates for the Estuarine Shoreline Management Plan • Select and review top 10 projects • Collect feedback that will help inform the draft Plan
5	September 2022	Hybrid	<ul style="list-style-type: none"> • Present findings of three (3) concepts, report and gather necessary input for Draft Presentation

**Public Workshop scheduled for August/September 2022, AC attendance is optional but appreciated!*

Outreach Tools, Techniques & Strategies

Collaboration on efforts from Town of Nags Head and Consultant Team:

- Advisory Committee (*5 Meetings*)
- Project Webpage
- Public Workshop Meeting (*1 Meeting*)
- Project Information Fact Sheet
- Public Participation Surveys (*2 Surveys*)
- Social Media and Email Announcements
- Local Newspaper, Press Releases, etc.
- Printed Outreach Material
- In-Person Outreach Events

Outreach Plan Discussion



Draft Goals – amended in meeting & afterwards

- Identify priority sites and strategies to protect the Nags Head estuarine shoreline at risk due to sea level rise and flooding
- Build public awareness of estuarine shoreline loss and its causes and consequences
- Describe legal and permitting barriers and pathways to implementation
- Preserve recreational access to the sound