



# AGENDA ITEM SUMMARY

Town of Nags Head Board of Commissioners

REGULAR SESSION: November 6, 2024

## AGENDA ITEM J.1.

Presentation – Moffatt & Nichol - Time Specific 11 am

- Consideration of Update to the Town's Beach Monitoring and Maintenance Plan
- Discussion of Beach Nourishment Triggers

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### Prepared by

David Ryan, Town Engineer

### Reviewed by

David Ryan  
Carolyn Morris  
Andy Garman

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### Staff Comments/Recommendation

Staff requests Board of Commissioners consideration for adoption of the Beach Monitoring and Maintenance Plan as presented.

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### Specific Action Requested

Provided for Board consideration to adopt the presented Beach Monitoring and Maintenance Plan

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### Summary

The purpose of the Beach Monitoring and Maintenance Plan (BMMP) is to: (1) Provide a brief overview of the morphological setting of the Town of Nags Head; (2) Detail the construction of the Town of Nags Head's initial and subsequent beach nourishment projects and how those projects were funded; (3) Specify the physical beach monitoring activities; (4) Detail the beach maintenance planning guidelines; and (5) Relate a plan for periodic renourishment funding. The attached document updates the Town of Nags Head's previous Beach Monitoring and Maintenance Plan, dated August 2011.

A primary point of emphasis with the BMMP update is to maintain eligibility with Federal Emergency Management Agency (FEMA) guidelines and applicability for Public Assistance. This plan documents the eligibility of the Nags Head beaches for post-disaster assistance under the Public Assistance Program administered by FEMA via authority of the Stafford Act (FEMA, 2020). Funding from this program could be available to reimburse costs associated with replacing beach sand removed from a beach by a Federally declared disaster event.

The Town of Nags Head's nourished oceanfront qualifies as an improved beach as the initial and subsequent beach nourishment projects were designed by qualified, licensed engineers and permitted by State and Federal regulatory agencies. Additionally, a monitoring plan and maintenance program involving periodic renourishment of sand was established along with the initial project in 2011. This report provides updates to the monitoring protocols as well as the triggers to initiate subsequent nourishment events, in alignment with the Nags Head Multi-Decadal Beach Nourishment Master Plan, adopted by the Town in June 2024. The change in maintenance volumetric triggers will be discussed as part of the presentation.

This updated BMMP provides the required documentation for the Town to support eligibility of the nourished oceanfront. If adopted, the final step would include plan approval through FEMA.

Beth Sciaudone, Ph.D., PE and Ayse Karanci, PhD, PE from the consulting firm of Moffat & Nichol will present an overview of the BMMP and will be available to answer questions from the Board.

## **Attachments**

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1. 11 J1 Updated BN Monitoring and Maintenance Plan