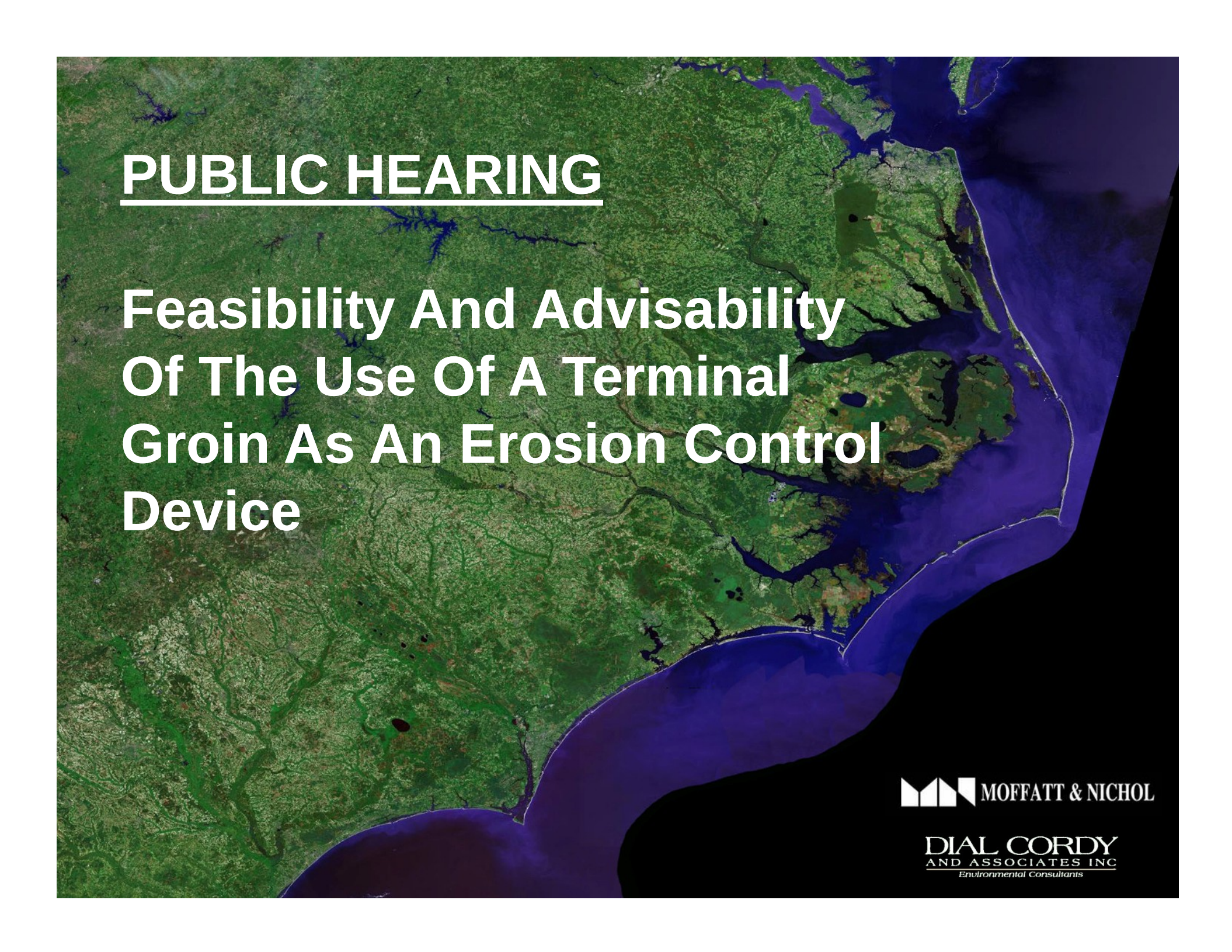


An aerial photograph of a coastal region, likely a river delta or estuary. The land is covered in dense green vegetation, with a network of dark, winding water channels and smaller streams. The land meets a large body of blue water on the right side of the image. The overall scene is captured from a high angle, showing the intricate patterns of the landscape.

# PUBLIC HEARING

## Feasibility And Advisability Of The Use Of A Terminal Groyne As An Erosion Control Device

 MOFFATT & NICHOL

**DIAL CORDY**  
AND ASSOCIATES INC  
Environmental Consultants

# House Bill 709

## Two Sections:

**“An Act To Impose A Moratorium On Certain Actions Of The Coastal Resources Commission Related To Temporary Erosion Control Structures And To Direct The Coastal Resources Commission To Study The Feasibility And Advisability Of The Use Of A Terminal Groin As An Erosion Control Device.”**

# Items Identified In House Bill 709

Shall consider:

- (1) Scientific data regarding the **effectiveness of terminal groins** constructed in North Carolina and other states in controlling erosion. Such data will include consideration of the effect of terminal groins on adjacent areas of the coastline.
- (2) Scientific data regarding the **impact of terminal groins on the environment** and natural wildlife habitats.
- (3) Information regarding the **engineering techniques used to construct terminal groins**, including technological advances and techniques that minimize the impact on adjacent shorelines.

# Items Identified In House Bill 709

Shall consider:

- (4) Information regarding the current and projected **economic impact** to the State, local governments, and the private sector from erosion caused by shifting inlets, including loss of property, public infrastructure, and tax base.
- (5) Information regarding the public and private monetary **costs of the construction and maintenance** of terminal groins.
- (6) Whether the potential use of terminal groins should be **limited to navigable, dredged inlet channels**.

# Items Identified In House Bill 709

## Public Input

- In conducting the study, the Commission shall hold at least **three public hearings** where interested parties and members of the general public will have the opportunity to present views and written material regarding the feasibility and advisability of the use of a terminal groin as an erosion control device at the end of a littoral cell or the side of an inlet to limit or control sediment passage into the inlet channel.

## Report

- No later than **April 1, 2010**, the Commission shall report its findings and recommendations to the Environmental Review Commission and the General Assembly.

# Project Team Members

## Project Team Members

- Moffatt & Nichol – Coastal Engineering
- Dial Cordy and Associates, Inc. - Environmental
- Dr. Duncan FitzGerald (Boston University) – Coastal Geology
- Dr. Chris Dumas (UNCW) – Economics

# Overall Project Work Plan

Task 1 – Coastal Engineering Analyses of Effectiveness and Impacts of Terminal Groins

Task 2 – Environmental Resource Analyses of Potential Effects of Terminal Groins

Task 3 – Construction Techniques to Limit Impacts

Task 4 – Economic Study of Impacts of Shifting Inlets

Task 5 – Initial Construction and Maintenance Costs

Task 6 – Potential Locations Study

Task 7 – Public Input

Task 8 – Draft and Final Report



# Roles of CRC/CRAC, Science Panel

## CRC/CRAC

- Will Provide Guidance to M&N During the Study
- Will Be Responsible for Developing the Policy Conclusions and Recommendations to Be Supplied to the ERC and Ultimately the General Assembly

## Science Panel

- Science Panel Will Be Involved in the Scoping Meeting and Peer Review of Interim Documents and Draft and Final Report Review
- M&N Will Provide Memos Describing Methodologies and Analyses for Review and Comment

# Selected Sites Based on September 29<sup>th</sup> Science Panel Meeting

## North Carolina

- Oregon Inlet
- Fort Macon

## Florida

- Amelia Island
- Captiva Island
- John's Pass



# Project Work Plan

## Public Input

- Five Public Meetings
  - Sheraton Atlantic Beach – October 29<sup>th</sup>, 2009
  - Kill Devil Hills Town Hall – December 16<sup>th</sup>, 2009
  - Hilton Raleigh North – January 13<sup>th</sup>, 2010
  - NH County Complex – February 17<sup>th</sup>, 2010
  - Sea Trail Plantation - March 25<sup>th</sup>, 2010
- State Web Site
  - <http://www.nccoastalmanagement.net>
  - Under What's New Section
- Email – [jim.gregson@ncdenr.gov](mailto:jim.gregson@ncdenr.gov)



# Project Work Plan

## Task 8 – Draft and Final Report

- Working Draft Report (February 1, 2010)
- Final Report (March 1, 2010)



# Next Steps

- Science Panel Meeting for Preliminary Analysis & Results Review and Discussion (January 19, 2010) - Raleigh
- Working Draft Report – February 1, 2010
- Science Panel Meeting – February 8, 2010  
Raleigh
- Steering Committee Meeting – February 15, 2010  
New Bern
- Next CRC Meeting and Public Hearing –  
Wilmington (February 17<sup>th</sup>, 2010)