

# FOLLY BEACH, SOUTH CAROLINA COASTAL STORM RISK MANAGEMENT PROJECT FEASIBILITY STUDY PUBLIC SCOPING MEETING

**Presented by:**  
**Wilmington District**  
**U.S. Army Corps of Engineers**  
**February 19, 2019**



*"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."*



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# INTRODUCTORY REMARKS

US Army Corps of Engineers  
Charleston District Commander  
Lt. Col. Jeffrey Palazzini

City of Folly Beach  
Mayor Tim Goodwin



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# AGENDA

- Welcome
- Purpose of Meeting
- Project Overview
- Study Scope
- Environmental Considerations
- Study Cost
- Study Schedule
- Summary
- Questions





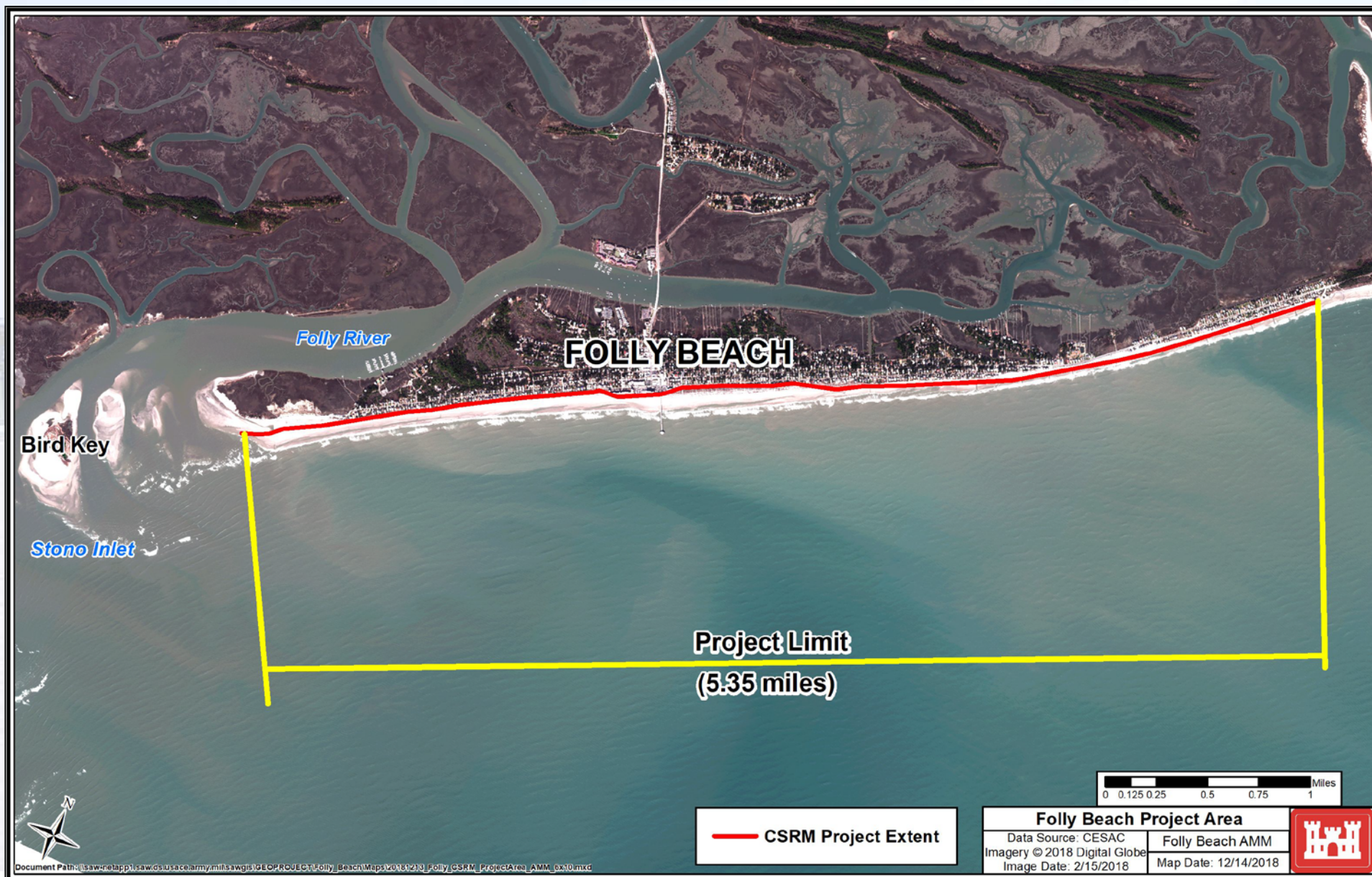
## PURPOSE OF MEETING

- Describe Potential Federal Action
- 30-day Scoping Comment Period Ends March 8, 2019





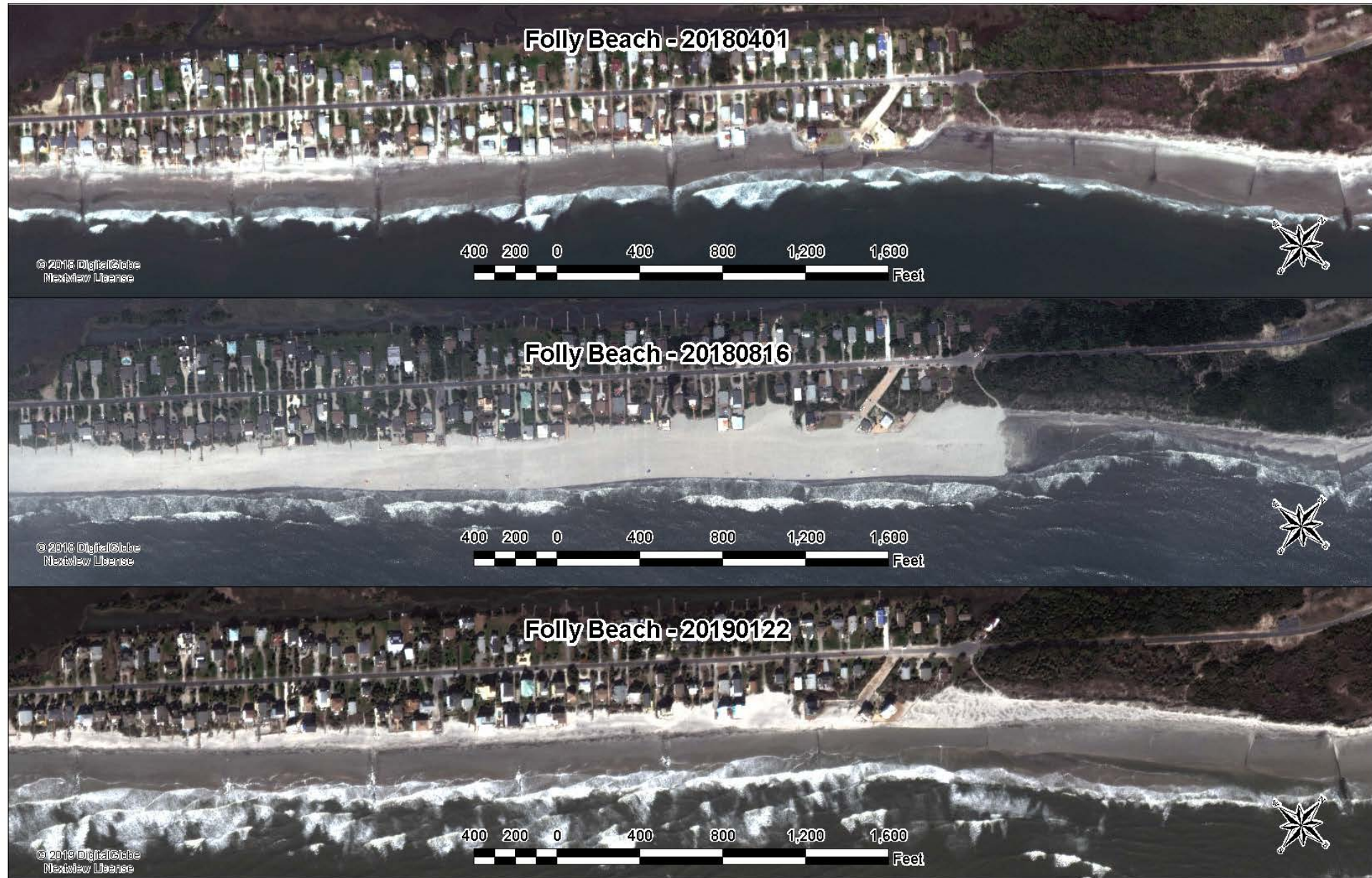
# PROJECT OVERVIEW





# PROJECT OVERVIEW

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## PROJECT OVERVIEW (CONTINUED)

- Initial construction was completed in 1993 with:
  - 1<sup>st</sup> renourishment completed in 2005 (with partial in 2007)
  - 2<sup>nd</sup> in 2014
  - 3<sup>rd</sup> in 2018
- The berm width is 15 feet at an elevation of 9.0 feet (above the national geodetic vertical datum)
- Approximately 1.4 - 2.1 MCY of sand placed during renourishments
- The current 50-year project extends until 2042
- Periodic nourishment required approximately every 8 years



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## FEASIBILITY STUDY

- Authorization:
  - Water Resources Reform and Development Act of 1986
  - Energy and Water Development Appropriations Act of 1992
  - Bipartisan Budget Act of 2018
- Key Potential Action:
  - Determine scope and justify a plan for reauthorization of the project for an additional 50 years and continue Federal participation in cost-shared nourishments
  - Authorization which would allow continuance of cost-shared periodic nourishments, subject to the availability of Federal and non-Federal funding





## FEASIBILITY STUDY

- Must be technically feasible, economically justified and environmentally acceptable
- Cooperating Agency:
  - Bureau of Ocean Energy Management (BOEM)
    - Execution of a negotiated lease agreement for use of sand resources located in Federal waters
    - Assist in developing NEPA documentation and associated consultations
- Cost-share Sponsor and Stakeholders:
  - City of Folly Beach
  - State of South Carolina



## FEASIBILITY STUDY SCOPE

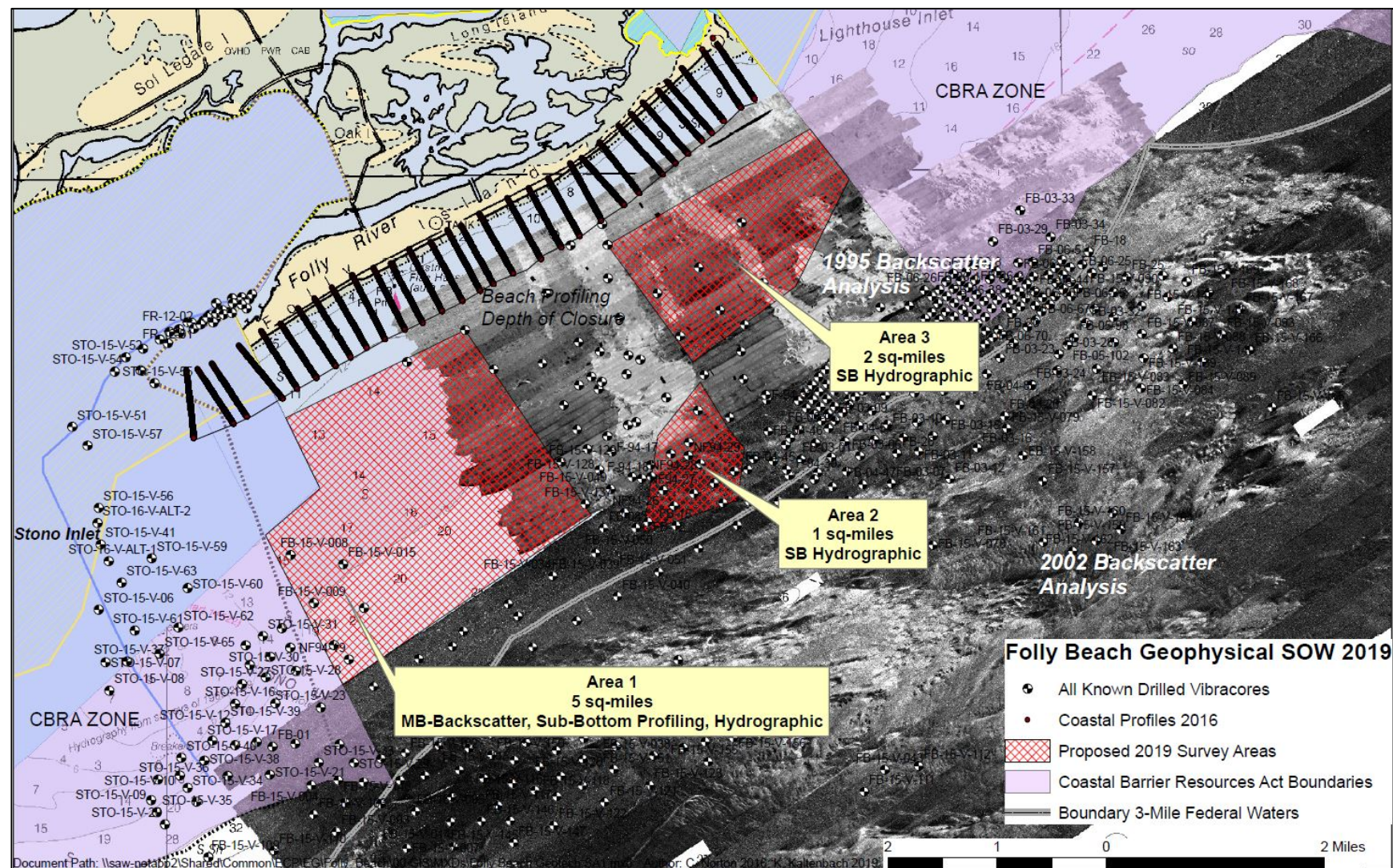
- Reformulation of alternatives from a previously completed Feasibility Study
- Validate required project parking and access
- Ensure sufficient beach quality sand available for renourishments for the 50-year period of analysis
- Evaluate potential sea level rise over 50-year period
- Update environmental compliance





## Borrow Areas

- Original offshore borrow areas; A,B,C & D depleted.
- LRR identified at least 5 x potential sand deposits offshore & within CBRA Zone.
- Thick deposits of suitable sand present near Stono Inlet & within shoals (> 3 miles offshore).
- Thinner deposits of marginal sand located near shore; sand deposit extent and quality not fully delineated.
- Near shore exploration planned; geophysical survey & vibracoring
- Potential sand resources outside of 3 nautical miles boundary would require a BOEM lease





## PRELIMINARY IDENTIFIED POTENTIAL MEASURES

### STRUCTURAL

- Berm Fill
- Dune Fill
- Seawalls
- Groins
- Geotubes
- Armor Stone
- Increased Length of Project

### NON-STRUCTURAL

- Update Land Use Regulations/  
Floodplain Management Plan
- Acquisitions (buyouts)
- Change Construction Requirements
- Change Set Back Requirements
- Elevating Structures
- Update Evacuation Plan
- Enhance Evacuation Signage
- Relocation
- Flood Proofing





# STATUS OF ENVIRONMENTAL COMPLIANCE ACTIVITIES



**A new Environmental Assessment will be integrated with the Main Report.**

## **Existing Approvals:**

- Folly Beach Shore Protection Project: Folly River Borrow Area EA/FONSI December 2017.
- Folly Beach Renourishment and Groin Rehabilitation Project USFWS Biological Opinion dated January 19, 2018.
- NMFS BO dated September 25, 1997 (SARBO).
- SCDHEC BOW No longer issue WQC for beach nourishment projects.
- SCDHEC CZM dated February 16, 2018.



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## NEPA SCOPING

- All scoping comments will be considered in plan formulation, technical, economics and environmental analyses, and alternatives analysis.
- The plan formulator and team will consider all potential, technically, economically and environmentally-sound alternatives, subject to funding and time constraints.



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## FEASIBILITY STUDY COSTS

|             | <b>Costs</b> |
|-------------|--------------|
| Federal     | \$3,000,000  |
| Non-Federal | \$0          |



## FEASIBILITY STUDY SCHEDULE

|                                                                                                 |                  |
|-------------------------------------------------------------------------------------------------|------------------|
| Study Initiated                                                                                 | October 12, 2018 |
| 30-day Scoping Comment Period Ends                                                              | March 8, 2019    |
| 30-day Public and Agency Review of Draft Report and Environmental Assessment                    | December 2019    |
| Submit Report to SAD                                                                            | April 2021       |
| Signed Chief of Engineers' Report                                                               | October 2021     |
| Project Construction Authorization                                                              | Next WRDA Bill   |
| Next Scheduled Periodic Nourishment<br>(If authorized, and receives construction appropriation) | 2026-2028        |





# SUMMARY AND STATION LOCATIONS



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# POINT OF CONTACT FOR SCOPING COMMENTS DUE BY MARCH 8, 2019

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Mr. Eric Gasch

[Eric.K.Gasch@usace.army.mil](mailto:Eric.K.Gasch@usace.army.mil)

Wilmington District  
U.S. Army Corps of Engineers  
69 Darlington Avenue  
Wilmington, NC 28403





# THE END



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