



US Army Corps
of Engineers
Wilmington District

Carolina Beach & Vicinity, NC (Coastal Storm Risk Management)

Carolina Beach Portion:

- **Sponsor: Carolina Beach**
- **Initial project constructed in 1965**
- **Project covers 2.7 miles of shoreline**
- **Nourishment scheduled every 3 years**
- **Authorization to re-nourish project expires in December 2020**
- **Last nourishment cycle completed in March 2019. Next nourishment cycle scheduled for FY 2022, subject to receipt of a new project authorization to extend Federal participation in nourishment thru 2036**
- **Project authorization extension study underway**



Area South Portion:

- **Sponsor: Kure Beach**
- **Initial project constructed in 1998**
- **Project covers 3.4 miles of shoreline**
- **Nourishment scheduled every 3 years**
- **Last nourishment cycle to be completed in April 2019. Next nourishment cycle scheduled for FY 2022**



CONGRESSIONAL DISTRICT: NC 7

DATE: 25 March 2019

1. **AUTHORIZATION:** Flood Control Act of 1962; Water Resources Reform and Development Act of 2014 (WRRDA-2014) Section 1037; Water Resources Development Act of 2016 (WRDA-2016).

2. **LOCATION AND DESCRIPTION:** The project is located in New Hanover County, about 15 miles southeast of Wilmington, NC, on the peninsula which separates the lower Cape Fear River from the Atlantic Ocean.

PROJECT INFORMATION - Carolina Beach & Vicinity, NC - Carolina Beach and Area South Portions (Coastal Storm Risk Management) – Continued

Carolina Beach Portion

This portion of the project includes a dune with a base generally bordering at or near the building line with a crown width of 25 feet at an elevation of 13.5 feet national geodetic vertical datum (NGVD) together with an integral shoreline berm with a crown width of 50 feet at elevation 10.5 NGVD and beach fill extending about 14,000 feet from the northern to the southern limits of Carolina Beach, and Federal participation in the periodic cost of coastal storm risk management nourishment for a period not to exceed 56 years from the year of initial placement (FY 1965 to 2020). Along the northern 2,050 feet, this portion of the project includes a rock revetment at elevation 10.5 NGVD fronted by 130-foot-wide berm at elevation 6.5 NGVD.

Area South Portion

The portion of the project includes a dune with a base generally bordering at or near the building line with a crown width of 25 feet at an elevation of 13.5 feet national geodetic vertical datum (NGVD), together with integral construction of a shoreline berm with a crown width of 50 feet at elevation 9.5 feet NGVD extending about 18,000 feet from the southern limits of Carolina Beach to the northern limits of Fort Fisher, and Federal participation in the cost of coastal storm risk management nourishment for a period not to exceed 50 years from the year of initial placement (FY 1998 to 2047).

3. **COST ESTIMATE:**

Carolina Beach Portion:

Initial Construction:

\$7,325,000	(Federal – 65%)
\$3,944,000	(Non-Federal – 35%)
(\$3,936,000)	(Non-Federal Cash Contribution)
<u>(\$8,000)</u>	(Non-Federal Lands and Damages)
\$11,269,000	

Periodic Nourishment:

\$32,454,000	(Federal – 65%)
<u>\$17,476,000</u>	(Non-Federal – 35%)
\$49,930,000	

Total Estimated Project Cost:

\$39,779,000	Federal
<u>\$21,420,000</u>	Non-Federal
\$61,199,000	Total

PROJECT INFORMATION - Carolina Beach & Vicinity, NC - Carolina Beach and Area South Portions (Coastal Storm Risk Management) – Continued

Area South Portion:

Initial Construction:

\$9,603,000	(Federal – 65%)
\$5,171,000	(Non-Federal – 35%)
(\$4,770,000)	(Non-Federal Cash Contribution)
<u>(\$401,000)</u>	(Non-Federal Lands and Damages)
\$14,774,000	

Periodic Nourishment:

\$99,353,000	(Federal – 65%)
<u>\$53,498,000</u>	(Non-Federal – 35%)
\$152,851,000	

Total Estimated Project Cost:

\$108,956,000	Federal
<u>\$58,669,000</u>	Non-Federal
\$167,625,000	Total

4. **FEDERAL FUNDING ALLOCATION THRU FY 2018:** \$68,736,000.
5. **FY 2019 FUNDING ALLOCATION:** \$0. Flood Control and Coastal Emergency funds in the amount of \$7 million and other carry-in Federal and non-Federal funds are being used to complete a periodic nourishment contract at both the Carolina Beach and Area South portions. Carry-in funds are also being used to continue a Beach Renourishment Evaluation Report for the Carolina Beach Portion, under section 1037 of the Water Resources Reform and Development Act of 2014, as amended. A tentatively selected plan milestone meeting is scheduled for May 2019.
6. **FY 2020 BUDGET AMOUNT:** \$0. Complete the Beach Renourishment Evaluation Report for the Carolina Beach Portion using carry-in funding and issue a Chief’s Report, scheduled for June 2020, for authorization to continue Federal participation in periodic nourishment thru FY 2036. No additional funds are estimated to be needed at this time.
7. **KEY DATES:** Federal authority to nourish the Carolina Beach portion expires in FY 2021 (December 2020). The periodic nourishment completed in March 2019 will be the last nourishment event on Carolina Beach until the Beach Renourishment Evaluation Report has been approved, a Chief’s Report has been issued and authorization received to continue Federal participation in periodic nourishment thru FY 2036.

PROJECT INFORMATION - Carolina Beach & Vicinity, NC - Carolina Beach and Area South Portions (Coastal Storm Risk Management) – Continued

9. **OTHER INFORMATION:** A local hotel occupancy tax has been collected since November 1983 for New Hanover County. Seventy-five percent of these tax revenues are dedicated to meet the non-Federal sponsor's share of periodic nourishment for projects located in New Hanover County.

Carolina Beach Portion

Federal participation in coastal storm risk management nourishment for an initial period of 50 years from the initiation of construction was approved in FY 1994 through December 2014. Federal participation in the periodic nourishment costs is currently authorized not to exceed 56 years, from FY 1965 to FY 2020 in WRDA-2016. In December 2017, the Corps and the non-Federal sponsor completed an amendment to the project cost sharing agreement and extended the project life through December 2020.

Section 1037 of WRRDA-2014, as amended, established a process to perform a study to determine the economic feasibility and environmental acceptability of extending Federal participation in periodic nourishment at a project like Carolina Beach. This study, culminating with a Beach Re-nourishment Evaluation Report, would ultimately require construction authorization to extend periodic nourishment an additional 15 years past the date of initiation of construction of congressionally authorized nourishment, estimated from FY 2022 to FY 2036. The Corps and the town of Carolina Beach, along with New Hanover County, initiated a Beach Re-nourishment Evaluation Report upon execution of a study cost sharing agreement with the town of Carolina Beach in May 2017. This study is being cost-shared at 50% Federal and 50% non-Federal.