



US Army Corps
of Engineers
Wilmington District

Brunswick County Beaches, NC (Coastal Storm Damage Reduction)

Ocean Isle Beach Portion:

- **Sponsor: Ocean Isle Beach**
- **Initial project constructed in 2001**
- **Project covers 3.2 miles of shoreline**
- **Estimated Nourishment cycle is 3 years**
- **Last nourishment cycle completed in April 2010**
- **Next nourishment cycle was scheduled for contract award in FY 2013, but has not received funding to date**



Oak Island/Caswell Beach and Holden Beach Portions:

- **Sponsors: Oak Island, Caswell Beach and Holden Beach**
- **General Reevaluation Report underway but currently suspended due to Federal funding shortfalls**
- **Potential project portions cover a cumulative 24 miles of shoreline**



CONGRESSIONAL DISTRICT: NC 7

DATE: 8 April 2013

1. **AUTHORIZATION:** Flood Control Act of 1966 (H. Doc 511/89/2)
2. **LOCATION AND DESCRIPTION :** The project is located in Brunswick County, North Carolina. The project includes the Ocean Isle Beach, Oak Island/Caswell Beach and Holden Beach portions. The authorized project would reduce flood damages along these coastline areas due to hurricane and storm action and shoreline erosion.

Ocean Isle Beach Portion

This first segment of this portion of the project consists of a dune with a base generally bordering at or near the building line with a crown width of 25 feet at an elevation of 9.5 feet national geodetic vertical datum (NGVD) together with an integral shoreline berm with a crown width of 50 feet at elevation 7 feet NGVD for a distance of 5,150 feet. The second segment is a berm-only having a crown width of 50 feet at elevation 7 feet NGVD for a distance of 2,600 feet.

PROJECT INFORMATION – Brunswick County Beaches, Ocean Isle Beach and Oak Island/
Caswell Beach and Holden Beach Portions (Coastal Storm Damage Reduction) – Continued

The third segment is also a berm-only with a crown width of 25 feet at elevation 7 feet NGVD for a distance of 2,400 feet. The transition on the eastern end is 4,200 feet and 2,800 feet on the western end. This portion of the project totals 17,150 feet in length. Federal participation in the periodic nourishment of coastal storm damage reduction for this portion of the project is currently authorized for a period not to exceed 50 years from the year of initial construction (FY 2001 to 2050).

Oak Island/Caswell Beach and Holden Beach Portions

These portions of the project would provide for eventual construction of a dune with a base generally bordering at or near the building line and an adjacent shoreline berm. The original authorized plan for these portions of the project would help reduce the total average annual damages of about \$25 million due to hurricane and storm action and coastal storm damage erosion. Total property value within these portions of the project is about \$500 million.

3. **COST ESTIMATE:** All activities on the Ocean Isle Beach portion of this project are cost-shared at 65% Federal and 35% non-Federal. Normal operation and maintenance activities between nourishment cycles are the responsibility of the town of Ocean Isle Beach. All ongoing activities on the Oak Island/Caswell Beach and Holden Beach General Reevaluation Report are currently not cost-shared until a revised project is recommended for implementation and authorized for construction.

Ocean Isle Beach Portion

\$66,300,000 (Federal)
(5,600,000) Initial Construction
(60,700,000) Future Nourishment
\$34,700,000 (Non-Federal Cash Contribution)
(2,900,000) Initial Construction
(31,800,000) Future Nourishment
\$ 1,000,000 (Non-Federal Lands & Damages)
(500,000) Initial Construction
(500,000) Future Nourishment
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\$ 102,000,000 TOTAL

Oak Island/Caswell Beach and Holden Beach Portions

Estimated costs to complete the general reevaluation report thru the Chief's report:
\$8,500,000

4. **TOTAL FEDERAL PROJECT FUNDING ALLOCATION THRU FY 2012:** \$20,428,000.

PROJECT INFORMATION – Brunswick County Beaches, Ocean Isle Beach and Oak Island/
Caswell Beach and Holden Beach Portions (Coastal Storm Damage Reduction) – Continued

5. **FY 2013 BUDGET REQUEST:** \$0. The general reevaluation report (GRR) was being continued using previously appropriated carry-in funds. No substantive work is currently scheduled for Ocean Isle Beach in FY 2013.

6. **FY 2014 BUDGET REQUEST:** \$0. Funds in the amount of \$6,000,000 could be used to develop the coastal storm damage reduction design documentation report and plans and specifications for the periodic nourishment of the Ocean Isle Beach portion and nourish Ocean Isle Beach (\$5,450,000) and continue the general reevaluation report for the Oak Island/Caswell Beach and Holden Beach portions of the project (\$550,000).

7. **KEY DATES:** For the Ocean Isle Beach portion of this project, the previous periodic coastal storm damage reduction nourishment contract was completed in April 2010. The next nourishment cycle was scheduled for FY 2013 but is now delayed until at least FY 2014, subject to the availability of funds. For the Oak Island/Caswell Beach and Holden Beach portions of this project, the general reevaluation report is scheduled for completion in FY 2015, subject to the availability of funds.

8. **OTHER INFORMATION:**

Ocean Isle Beach Portion

The results of the latest monitoring report completed in 2009 has verified that the impact of deepening of Shallotte Inlet, the borrow source, has no negative impacts on adjacent shorelines.

Oak Island/Caswell Beach and Holden Beach Portions

The general reevaluation report for Oak Island and Caswell Beach was initiated in November 1996 and for Holden Beach in October 1997. All of these portions of the project are now combined into one report effort. The report will also identify if there is sufficient borrow material to construct and nourish these portions of the project for 50 years without causing significant environmental impacts. The GRR is currently suspended until additional funds are made available for this purpose.