



**US Army Corps
of Engineers®**
New York District

Atlantic Coast of New York City Rockaway Inlet to Norton Point (Coney Island Area) Shore Protection Project

FACT SHEET

DESCRIPTION: The project area is located on the south shore of Long Island in the Borough of Brooklyn, Kings County, New York, and consists of approximately 3 miles of beachfront. The project provides storm damage protection to the densely populated urban communities and infrastructure located along the shoreline of Coney Island. Shore protection was provided by constructing a 100-foot wide beach berm at an elevation of 13 feet above sea level. The project included the construction of an 850-foot long terminal groin on the westernmost end of the project at West 37th Street. A fillet of sand was placed in the private community of Sea Gate to protect the groin against flanking and to prevent downdrift conditions from deteriorating beyond those that existed before construction of the project. The project also includes periodic nourishment of the restored beaches on 10-year cycle for a period of 50 years. The non-Federal sponsor for the project is the New York State Department of Environmental Conservation.

AUTHORIZATION: Project Construction was authorized by the Water Resources Development Act of 1986, as modified by Section 1076 of the Intermodal Surface Transportation and Efficiency Act of 1991. Public Law 99-662 of the 1986 act called for Federal participation in beach restoration 250 feet beyond the historic shoreline at Coney Island with the construction and maintenance of the additional beach width to be cost shared between Federal and non-Federal interests. The project was further modified by the Water Resources Development Act of 2000 (Public Law 106-541) to include the construction of T-groins in the area west of the West 37th Street terminal groin.

STATUS: The initial construction contract was completed in January 1995. The total cost of the initial construction contract was approximately 9 million dollars, 65 percent of which was paid with Federal funds. Due to the rapid rate of beach erosion downdrift of the West 37th Street groin in the community of Sea Gate, approximately 600 tons of stone were placed adjacent to the groin in April 1996 to prevent a possible flanking condition. In June 1996, approximately 35,000 cubic yards of sand was placed adjacent to the groin to provide additional protection from potential flanking. In 2001, a stone revetment was constructed in this area to protect the groin and the west end of the project area from the continued threat of flanking caused by storm induced waves. A study was completed in March 1998 that determined the specific causes of the accelerated erosion and identified three potential long-term solutions to this problem. The Corps of Engineers prepared a reevaluation report to determine the most effective alternative. The report recommended the construction of a series of T-groins to the west of the West 37th Street groin as a long-term solution to the beach erosion and sand accumulation problems that have occurred in this area. The final report is scheduled to be completed in October 2004. The detailed design effort is underway and is scheduled to be completed in February 2005.

A contract to remove accumulated sand along Gravesend Bay was awarded in February 2004 to provide temporary relief to the area from wind blown sand while the long-term solution is being developed. Sand removal operations were completed in May 2004.

The entire project continues to be monitored by the Corps of Engineers and the State of New York to measure deviations in post-construction beach conditions. Monitoring will continue for a period of 50 years from the completion of initial construction.

PROJECT COST (Includes Periodic Nourishment):

Estimated Federal Cost	\$71,500,000
Estimated Non-Federal Cost	\$38,500,000
Total	\$110,000,000

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Please visit project web page: <http://www.nan.usace.army.mil/business/prjlinks/coastal/norton/index.htm>