

ENGINEERING SOLUTIONS FOR CONEY ISLAND

The **U.S. Army Corps of Engineers**, **New York State Department of Environmental Conservation**, and **New York City Department of Parks and Recreation** are committed to providing coastal storm risk management solutions for Coney Island.

The Sea Gate project will improve the functioning of the existing Coney Island coastal storm damage risk management project, which was constructed to reduce property damages due to storm surges and waves from the Atlantic Ocean.



THE PROBLEM AT SEA GATE

The Coney Island Project was completed in 1995. Soon after, the related problems of rapid sand erosion in Sea Gate west of the W 37th Street Terminal Groin and accretion of sand along Gravesend Bay were observed.

With continued erosion, there is a major risk of flanking the W 37th Street Terminal Groin, which may lead to groin failure and significant impact to the Coney Island Public Beach.

Repeated beachfill events were needed to mitigate the erosion at Sea Gate.

PROJECT FEATURES

Construction of 4 T-groins and one T-head spur

Reinforcement of the existing W 37th Street Terminal Groin and Norton Point Dike

Beachfill between the Norton Point Dike and the W 37th Street Terminal Groin

Sand will be sourced from the Jamaica Bay Federal Navigation Channel and the Gravesend Bay shoreline of Sea Gate

AUTHORIZATION

The Disaster Relief Appropriations Act of 2013, the Sandy Relief Bill (Public Law 113-2)

PROJECT COST

\$35 million at full Federal expense

SCHEDULE

Fall 2014	Contract Award
Fall 2014 - Winter 2016	T-groin Construct.
Spring 2016	Sand Placement
Spring/Summer 2016	Completion

PROJECT HISTORY

1986: Project authorized for construction by the Water Resources Development Act of 1986

1995: Initial construction of the Coney Island Project. The project included widening and elevating the beach from Corbin Place to W 37th Street, extension of the Terminal Groin, and placement of sand west of the W 37th Street Terminal Groin. Downdrift erosion observed soon after construction.

2000: USACE obtained authorization for the Sea Gate Project

2004: USACE completes Limited Reevaluation Report for the Sea Gate Project and designs project

2012: Hurricane Sandy significantly impacts Coney Island.

2013: The Disaster Relief Appropriations Act of 2013 (Public Law 113-2) is signed into law. It provides funding (100% Federal) to construct the Sea Gate Project.

2014: USACE completes Limited Reevaluation Report for the Sea Gate Project by updating it to post-Sandy conditions.



Rendering of Sea Gate Project one year post construction.

CONTACT US

For more information about this and other Hurricane Sandy projects please contact us.

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Improvement of the Atlantic Coast of New York City, Rockaway Inlet to Norton Point Project at Sea Gate

Coney Island, NY



NYC Parks



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