

The Bay Park Conveyance Project

A Western Bays Resiliency Initiative



Department of
Environmental
Conservation



WESTERN BAYS CONSTRUCTORS
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PROTECTING OUR COMMUNITY FOR THE FUTURE

The Bay Park Conveyance Project is a partnership between the New York State Department of Environmental Conservation (NYSDEC) and the Nassau County Department of Public Works (NCDPW). Together, NYSDEC and NCDPW are improving water quality and storm resiliency in Long Island's Western Bays by upgrading its existing wastewater management infrastructure.

The Western Bays are the waters between the neighborhoods of East Rockaway, Oceanside, Island Park, Baldwin, Rockville Centre, Freeport, and Long Beach Barrier Island. The Western Bays were once a productive fishing area. Much of the excess nitrogen in the Bays is attributed to wastewater treatment facilities that discharge directly into the Bays. Together with the low mixing capabilities of the Bays, over time this discharge has led to a loss of fishing capacity and degradation of water quality and the marsh ecosystem. Degraded marshlands contributed to diminished storm resiliency as experienced during Hurricane Sandy.

WESTERN BAYS CONSTRUCTORS JOINT VENTURE

The method of delivery for this Project is called Design-Build. Under the Design-Build process, the designer and contractor work together as a team under one contract. This approach shortens the procurement phase, and ensures that qualified engineers and contractors are used. Design-Build also allows for innovative approaches that save time leading to a successful conclusion of the Project.

Western Bays Constructors Joint-Venture is the design-builder for the Bay Park Conveyance Project. Project work began in March 2021, and it is expected to be complete in 2024.

BENEFITS



Storm Protection

Spur the rapid ecological recovery of the Western Bays marshlands which will protect coastal communities from storm surge and sea level rise



Quality of Life Factors

Maximize quality of life by providing an improved environment for residents to live, work, and play



Economic Benefits

The ecological recovery of the Western Bays and improved water quality will enhance and expand water-based recreational and commercial opportunities

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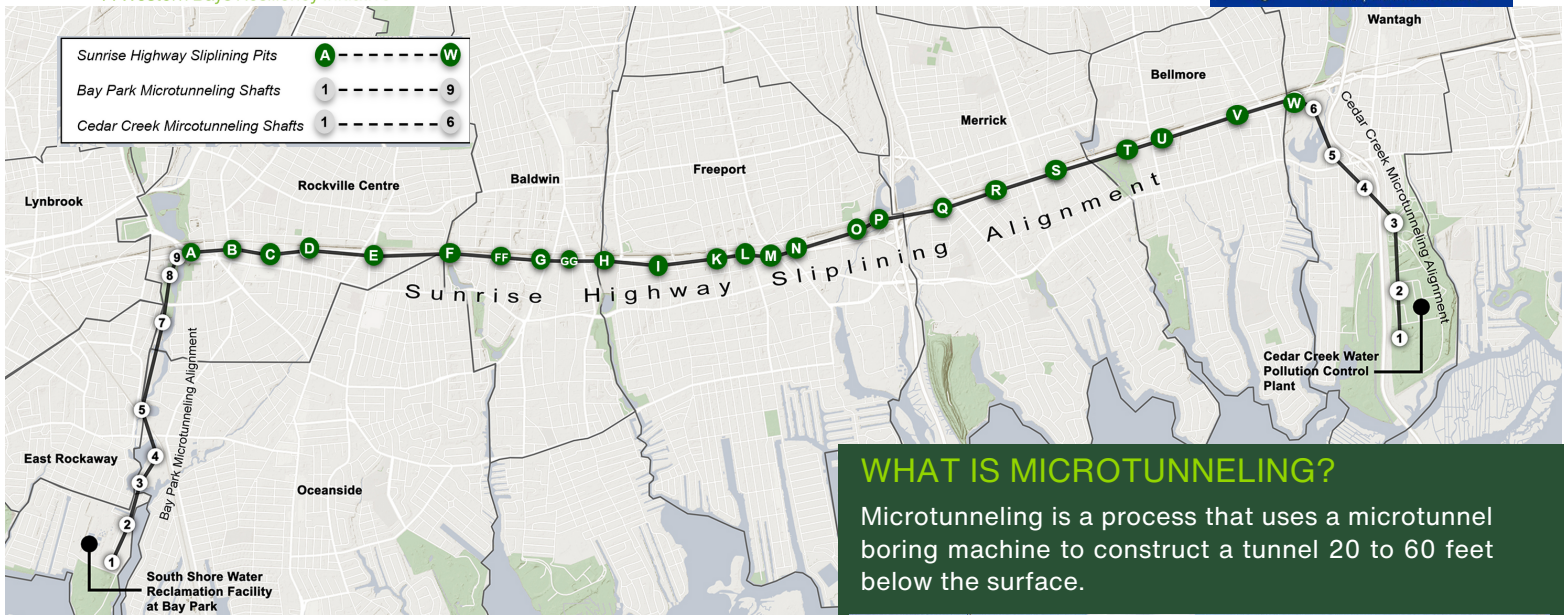
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ABOUT THE PROJECT

The Bay Park Conveyance Project will reduce nitrogen pollution in the Western Bays by redirecting treated water from the South Shore Water Reclamation Facility to the Cedar Creek Water Pollution Control Plant (WPCP). From Cedar Creek, the treated water will be discharged approximately three miles offshore in the Atlantic Ocean via an ocean outfall pipe to a one-mile-long diffuser array with 120 diffuser ports. These diffusers mix treated water with ocean water, where it quickly disperses.

A new pump station will be constructed at the existing South Shore Water Reclamation Facility. The Project includes two microtunneling segments - one extending two miles on the west side from the South Shore Water Reclamation Facility to Sunrise Highway, and another extending 1.6 miles on the east side, from Sunrise Highway to the Cedar Creek WPCP. The Project is also repurposing an existing aqueduct beneath Sunrise Highway, using a technique known as sliplining. In addition, new pumps and a receiving connection will be built at the Cedar Creek WPCP.

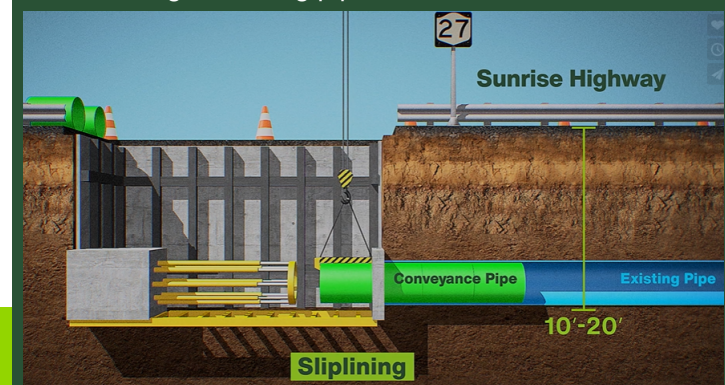
WHAT IS MICROTUNNELING?

Microtunneling is a process that uses a microtunnel boring machine to construct a tunnel 20 to 60 feet below the surface.



WHAT IS SLIPLINING?

Sliplining is the process of installing a smaller pipe inside a larger existing pipe.



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