The Bay Park Conveyance Project Protecting Our Community for the Euture

Public Meeting

and the state of the

July 15, 2020













Logistics Virtual Meeting Setup



One-on-One Q&A with our Subject Matter Experts!

Also check out <u>bayparkconveyance.org</u> and contact us anytime

JULY 15, 2020







Presentation Topics



1. Purpose and Need







The Western Bays

A sub-region of the South Shore Estuary Reserve that includes Hempstead Bay and South Oyster Bay, located on Nassau County's south shore

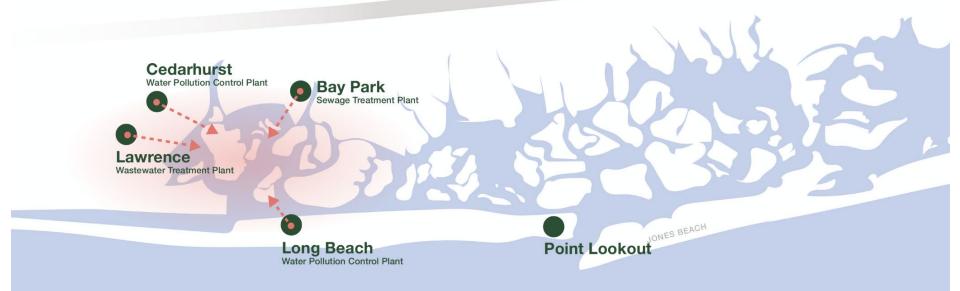
- Largest concentration of salt marshes
- Critical habitat for birds and marine species
- Recreational opportunities (swimming, boating, fishing)
- Productive fishing and shell fishing grounds







The Western Bays



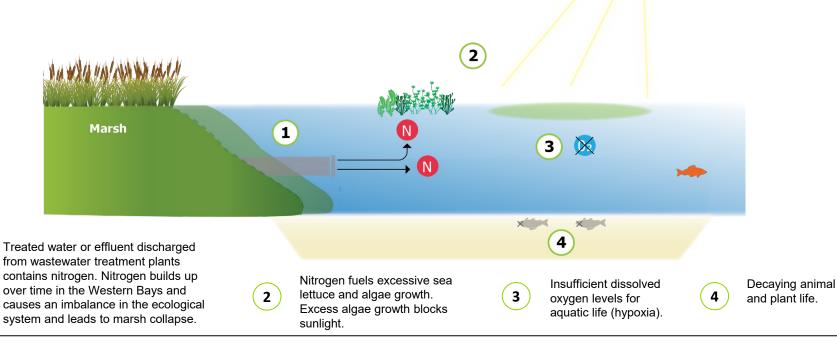
JULY 15, 2020







The Western Bays The Problem: Before



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Impacts of the Problem

The Current condition of the Western Bays have led to the following impacts on Nassau County communities:

1

Fewer marine-based jobs, i.e. shellfish industry Limited enjoyment of natural resources and recreational opportunities

2





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Reduced coastal protection to storm surge











The Nassau County Department of Public Works (NCDPW) is leading a series of region-wide resiliency and sustainability projects that will improve the water quality of the degraded Western Bays.

Completed projects include:

Conversion and Consolidation of Cedarhurst Water Pollution Control Plant and Lawrence Water Reclamation Facility to Bay Park STP for treatment.





















Benefits



Storm Protection

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



Quality of Life Factors

Maximize quality of life by providing residents a place to work and play



Economic Benefits

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

2. The Bay Park Conveyance Project







Team Partnership



In partnership with



In Communication with Towns, Villages, State, and Federal Agencies



In Communication with Environmental Partners







Sludge Stoppers Task Force



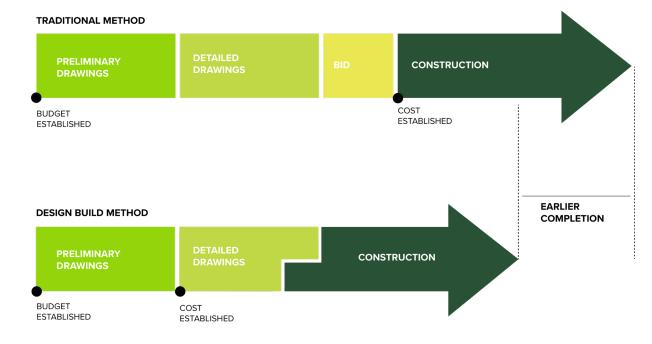




Accelerating Construction

Efficiently implement the project by utilizing NYSDEC's design-build authority

- Two-step process with a Request for Qualifications (RFQ) and Request for Proposals (RFP)
- Ensures use of qualified engineers and contractors
- Ensures the selected Design-Builder designs and builds what the County needs









Project Overview Purpose

To convey treated water from the Bay Park STP to Cedar Creek WPCP ocean outfall









Project Overview Bay Park to Sunrise Highway Microtunnel

Main Project Elements

- At Bay Park Construction of a new pump station
- Bay Park to Sunrise Highway – 2-mile force main via microtunneling

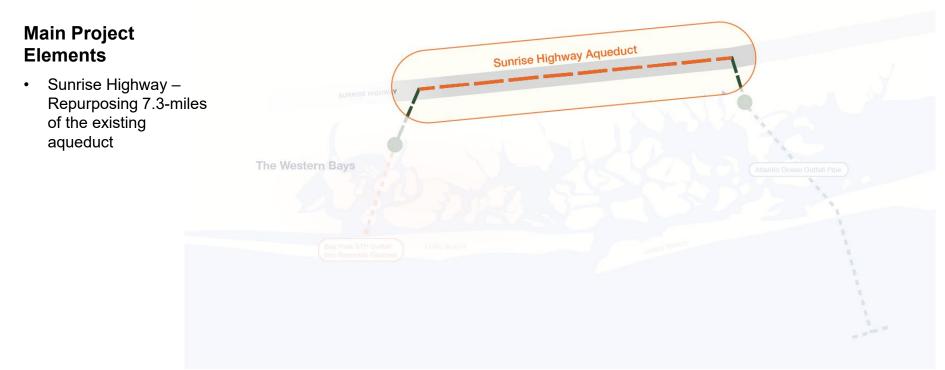








Project Overview Sunrise Highway Aqueduct









Project Overview Cedar Creek to Sunrise Highway Microtunnel

Main Project Elements

- Sunrise Highway to Cedar Creek – 1.6-mile force main via microtunneling
- At Cedar Creek Upgrade tide pumps, connect force main to ocean outfall
- Cedar Creek to Ocean Outfall – Discharge treated water seven miles (three miles are offshore) from Cedar Creek to ocean outfall diffusion structure



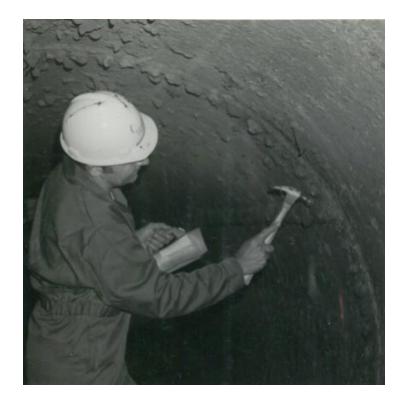






Innovative Approach Sunrise Highway Aqueduct

- Repurpose an existing pipe previously used for water conveyance and abandoned since 1966
- Inspections in 2017 show pipe can be repurposed
- Minimize disruption to traffic, businesses, and communities



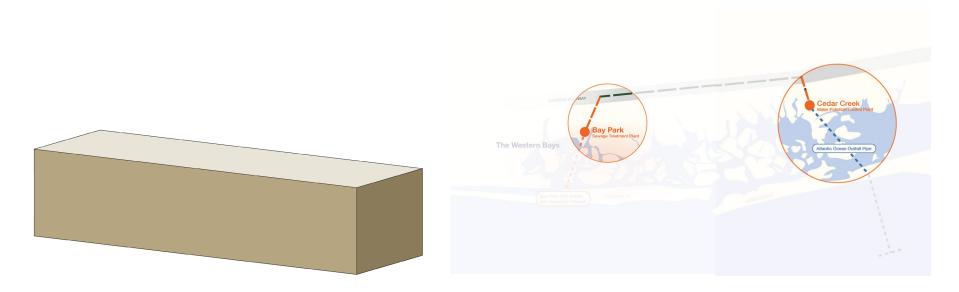






Innovative Approach Innovative Technology to Minimize Disruption

Microtunneling



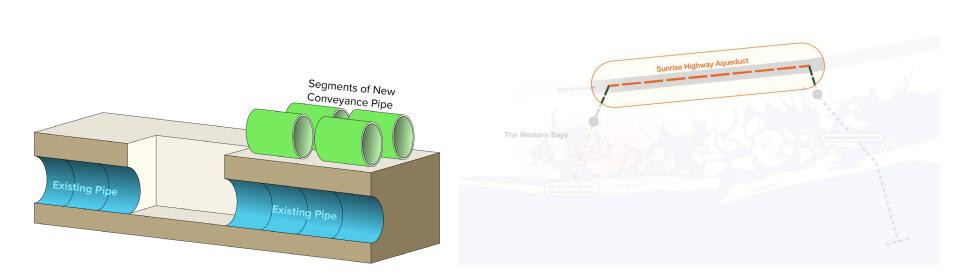






Innovative Approach Innovative Technology to Minimize Disruption

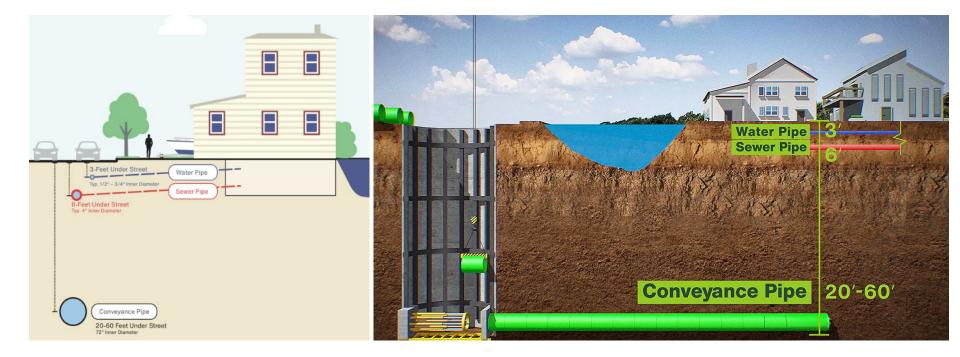
Sliplining







How Deep is Microtunneling?







Construction Activities - Sliplining



Sliplining

Epoxy Lining

Work Pits constructed along Sunrise Highway





Construction Activities - Microtunneling



3. Public and Stakeholder Outreach





Communicating with the Public

Public Outreach and Communication are Cornerstones of the Bay Park Conveyance Project.



EDPL Public Hearing held on February 25, 2020

- DEC is currently having one-onone conversation with property owners
- Easement FAQ is available for download at bayparkconveyance.org/faqeasement



Communication Tools / Goals

- Website: bayparkconveyance.org
- Public Information brochure available for download at bayparkconveyance.org/about and the project feedback station
- Business outreach planned
- Stakeholder meetings throughout project life







Where We Are Now & Next Steps











Preliminary Design

Preferred microtunnel alignments identified

Environmental Review

Public review period started July 3, 2020

Procurement

RFP released April 29, 2020.

Best Value Proposer to be selected Fall 2020

Notice to Proceed to be issued early Spring 2021

Real Estate (EDPL)

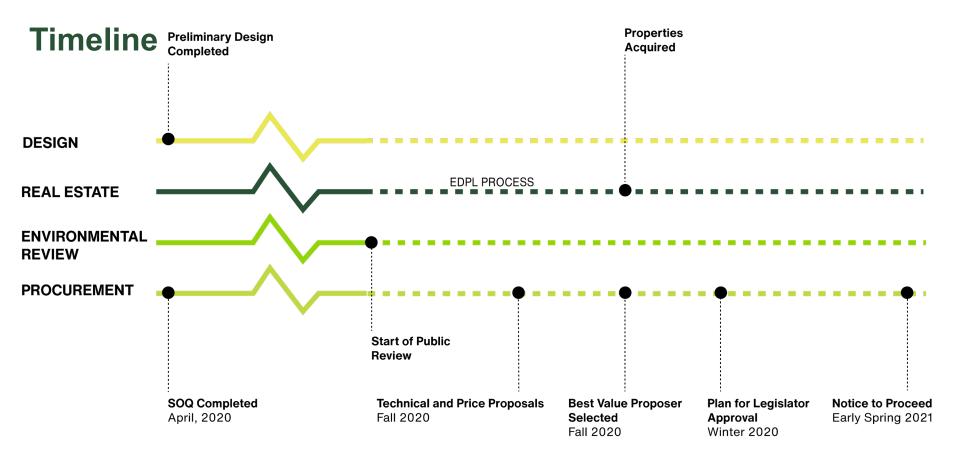
Easements to be acquired by Fall 2020

Public and Stakeholder Outreach

Virtual public meeting today. See Project website for announcements of additional outreach.











Thank You!

bayparkconveyance.org/contact-us