Welcome to

The Bay Park Conveyance Project

Public Information Session

April 6, 2021

The Bay Park Conveyance Project

A Western Bays Resiliency Initiative

NEW YORK STATE Department of Environmental Conservation

NASSAU COUNTY STATE OF NEW YORK

Virtual Meeting Format

1.  **Members of the public join via URL, Zoom Meeting ID, or Phone**

2.  **Project Presentation**

3.  **Live Question & Answer Session**

To Ask a Question

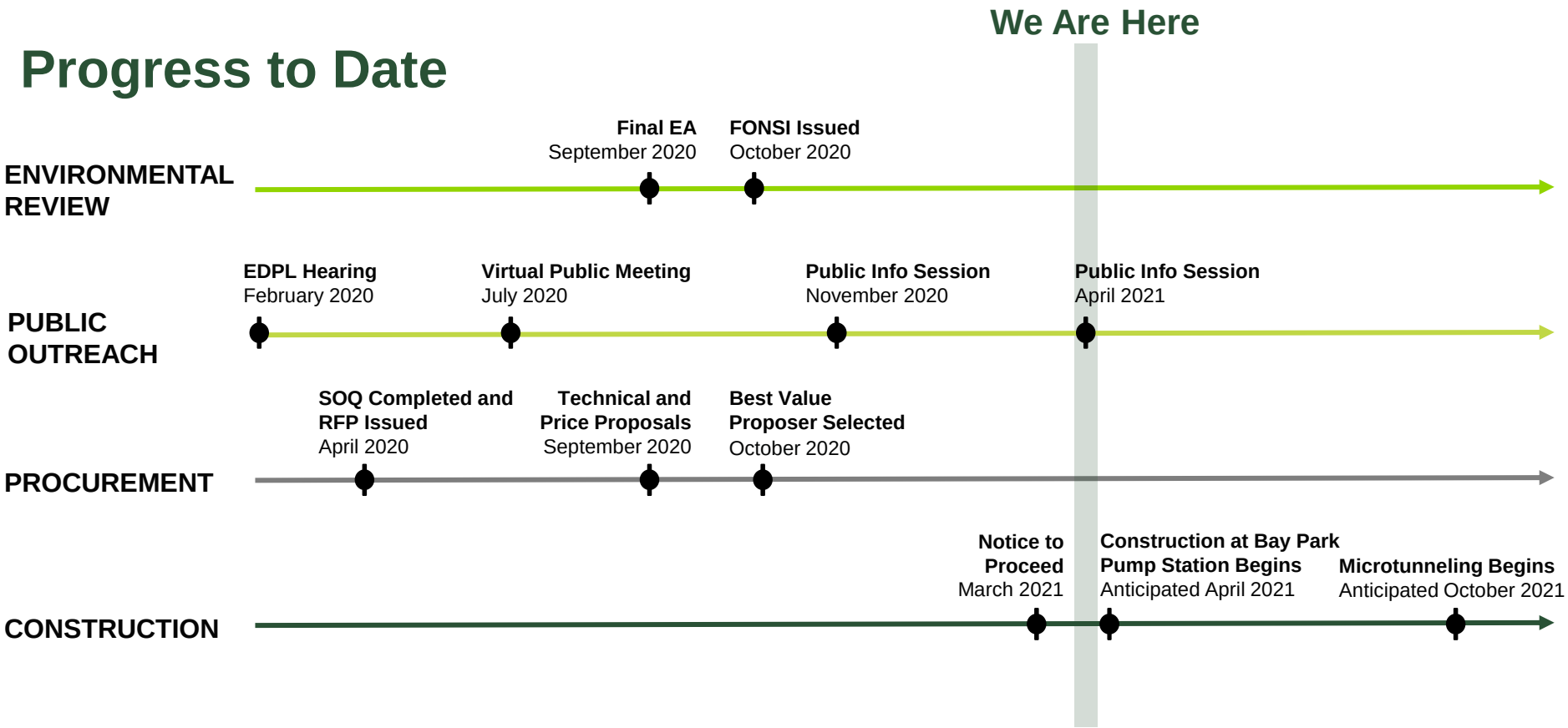
- Use the raise hand feature to indicate you have a question OR enter your question using the chat function at the bottom of the screen.
- When called upon during the live Q&A, a member of the Project Team will unmute your audio. You will then have to unmute yourself.
- State your name and affiliation prior to asking your question.

Agenda

1. Bay Park Conveyance Project
2. Construction Overview
3. Construction Look Ahead
4. Public & Stakeholder Outreach
5. Question & Answer Session

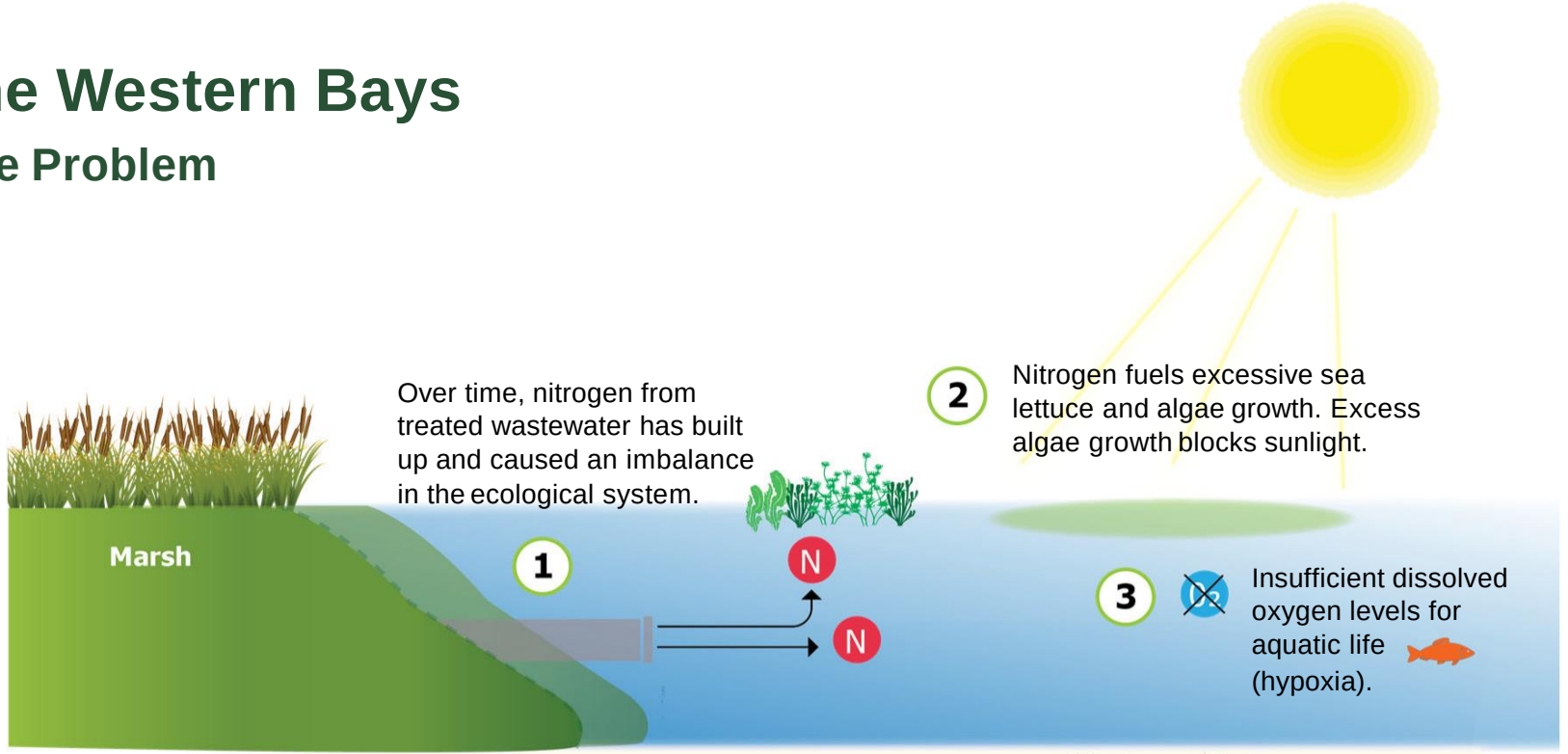
1. The Bay Park Conveyance Project

Progress to Date



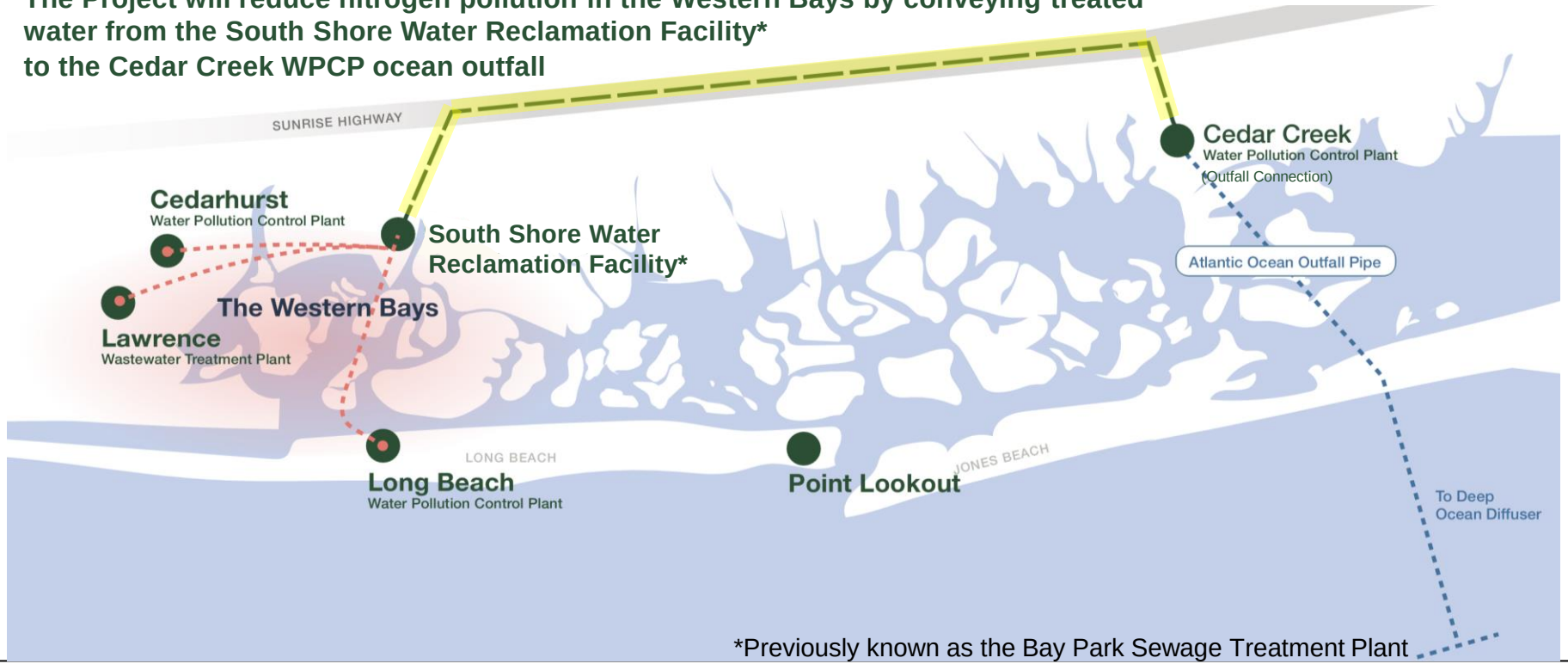
The Western Bays

The Problem



The Solution: The Bay Park Conveyance Project

The Project will reduce nitrogen pollution in the Western Bays by conveying treated water from the South Shore Water Reclamation Facility* to the Cedar Creek WPCP ocean outfall



*Previously known as the Bay Park Sewage Treatment Plant

Project 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

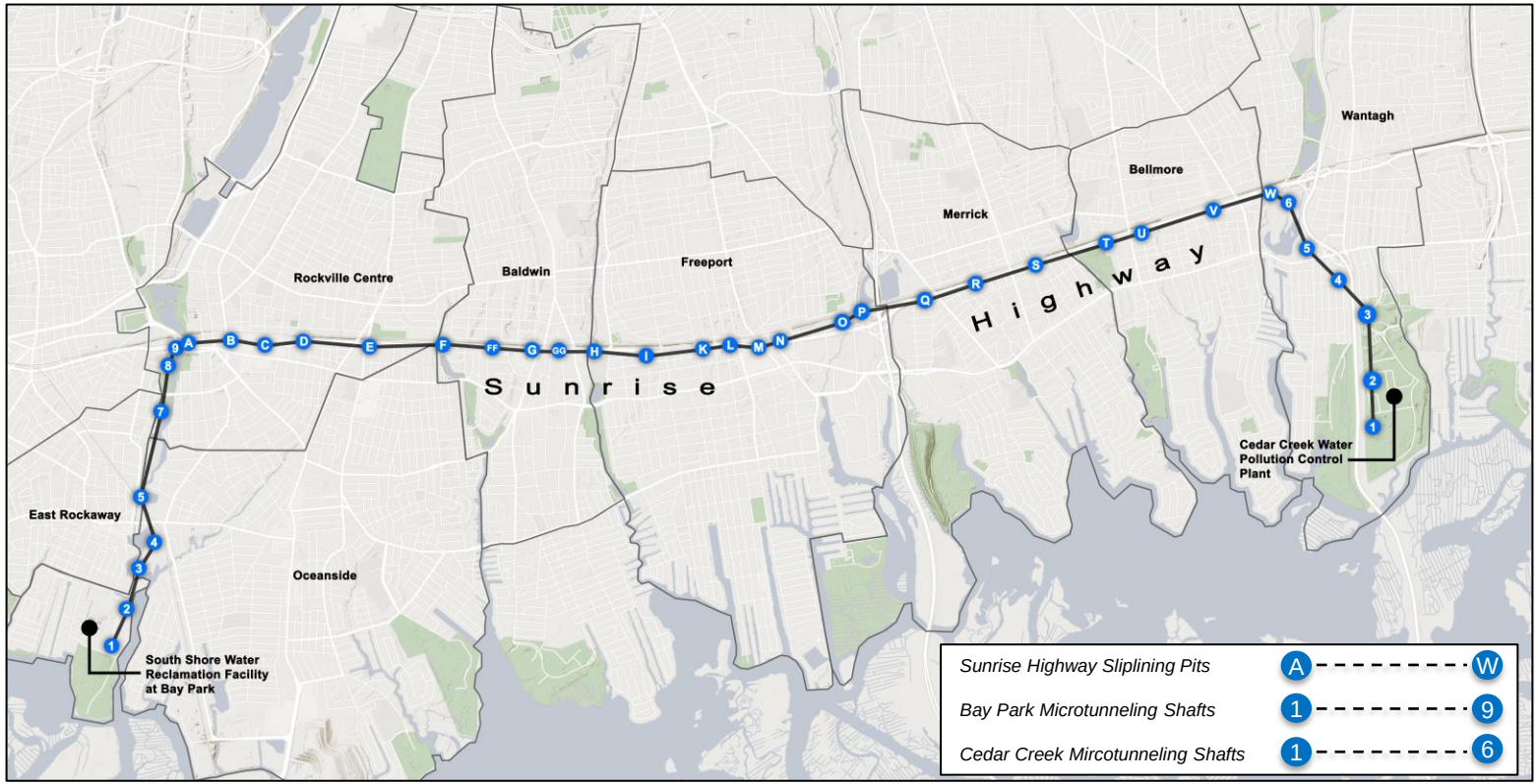
Quality of Life Factors

Maximize quality of life by providing residents a place to 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

Project Elements



Project Elements

Force Main Features

- **Bay Park Microtunneling** – 2-mile force main from Bay Park to Sunrise Highway
- **Existing Sunrise Highway Aqueduct** – Repurposing 7.3-miles using sliplining
- **Cedar Creek Microtunneling** – 1.6-mile force main from Sunrise Highway to Cedar Creek

Pump Station and Outfall Work

- **New Pump Station at the South Shore Water Reclamation Facility at Bay Park**
- **Cedar Creek Water Pollution Control Plant (WPCP)**
  - Replace 5 existing outfall pumps
  - Connect new pipe (wet tapping) into existing outfall conduit
  - Construct new receiving tank
- **Existing Cedar Creek WPCP Ocean Outfall**
  - Treated water travels 7mi from Cedar Creek WPCP to existing ocean outfall (~3mi offshore)
  - Treated discharge disperses quickly into the surrounding ocean water

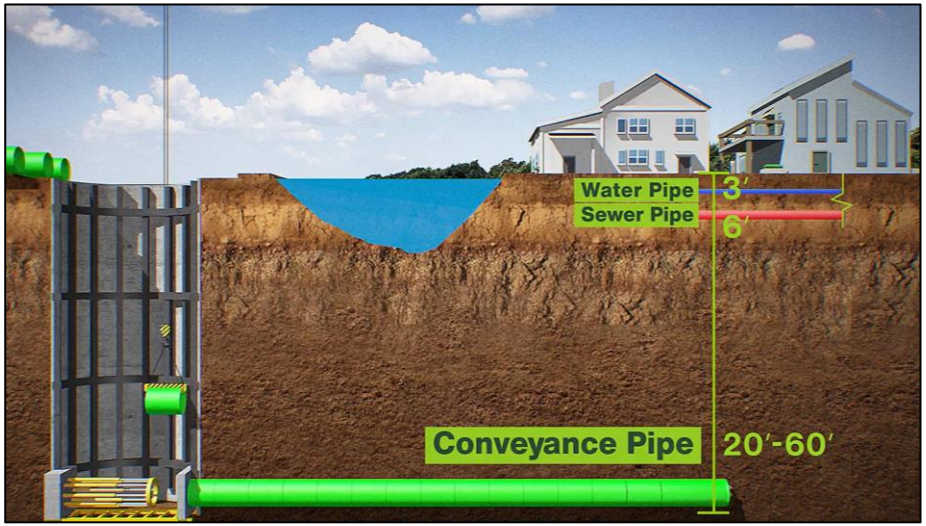
By the Numbers

- **8 Bay Park Microtunneling Shafts**
  - 6 feet diameter pipe
- **24 Work Pits along Sunrise Highway Aqueduct**
  - 7.2 Miles of Existing Aqueduct
    - 5 feet diameter pipe
- **6 Cedar Creek Microtunneling Shafts**
  - 6 feet diameter pipe
- **57,024 Total Linear Feet of Pipe**
- **42 Months of Construction**

2. Construction Overview

Microtunneling Technique

- Excavate deep into the ground to avoid water table and existing facilities
- Microtunnel Boring Machine (MTBM) and hydraulic jacks are used to push new pipe into place
  - No trenching necessary
  - Work is confined to shaft site
  - No activity in roadway



Microtunneling Technique

- Microtunneling shaft depth:
  - 39 – 62 feet deep along Bay Park alignment
  - 26 – 40 feet deep along Cedar Creek alignment
- Shafts will be approximately 24-26 feet in diameter
- Size of each work site around the shaft will vary based on location

Illustrative Graphic of Bay Park Shaft 3

Microtunneling Technique

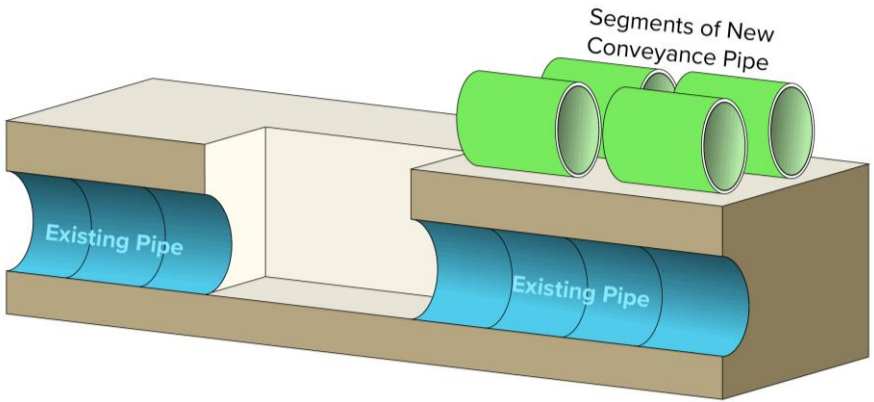
Microtunnel Boring Machine

Microtunneling shaft

Microtunnel Boring Machine

Sliplining Technique

- Excavate to the existing aqueduct level (approximately 15-18 feet deep)
- Place hydraulic jacking machine at base of pit
- Slide new conveyance pipe into existing aqueduct using hydraulic jacks
  - No open trenching necessary
  - Work is confined to pit site



Sliplining Technique

- Pits needed along Sunrise Highway to access the existing aqueduct
- Sunrise Highway Aqueduct pits will be approximately
  22-51feet L x 13 feet W x 15-18 feet D
- Size of each work site around the pit will vary based on location and can extend up to 200 feet in length
- Repurposing abandoned infrastructure avoids the need for more invasive construction

Sliplining Pipe and Pit

Project Design

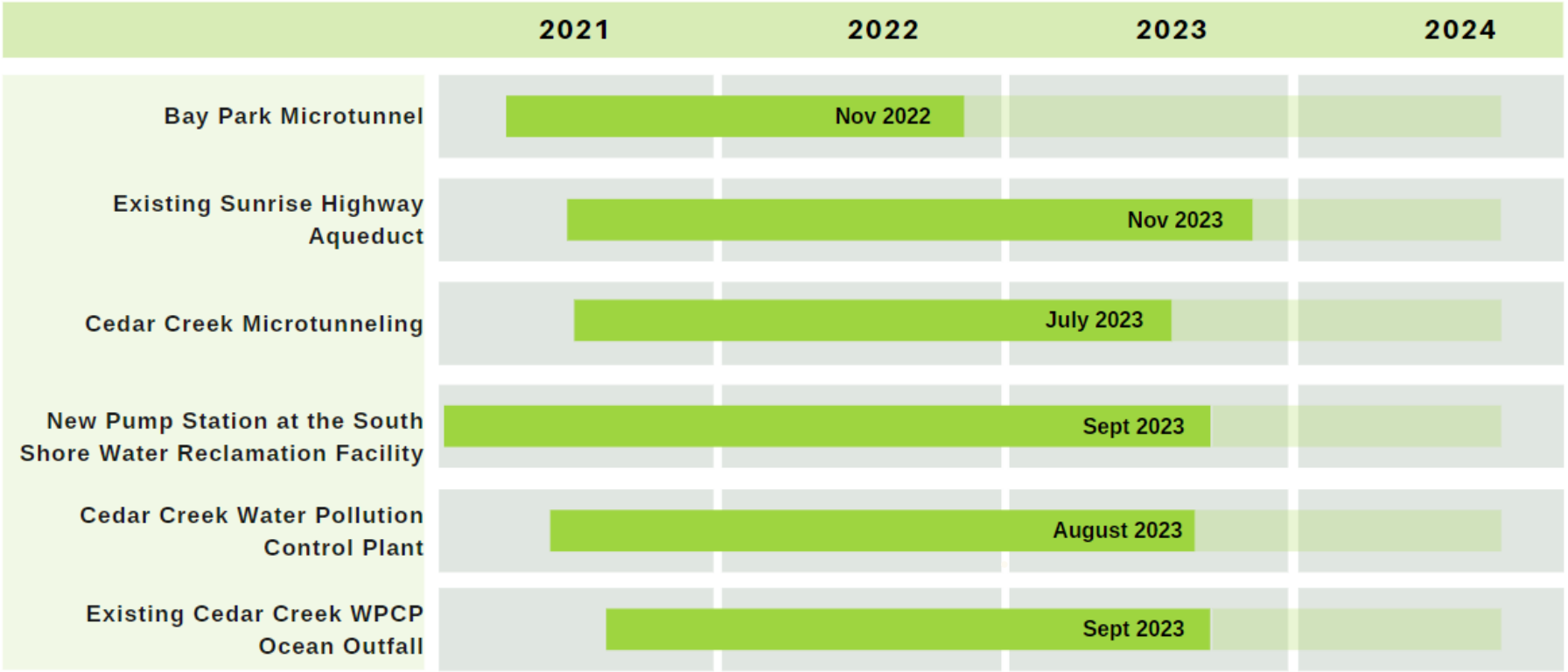
- Design-Build approach allows for:
  - Reduced community impacts
  - Shorter construction duration
  - Ability to reprioritize project activities
- Engineering for a 100-year design life
- Temporary inconveniences to facilitate a greater goal

Western Bays Constructors (WBC)

WBC, the design-build contractor, has assembled a team with an unparalleled track record in complex projects featuring companies with world class experience in microtunneling, mechanical systems, sewage treatment, and a broad range of other capabilities.

3. Construction Look Ahead

Project Timeline



Final Acceptance Aug 2024

Upcoming Construction Activities at a Glance

Construction Activity	Municipality	Anticipated Start Date
Early Activities	Across the alignment	Spring 2021
Bay Park Shaft 1	Hamlet of Bay Park	April 2021
Bay Park Effluent Pump Station	Hamlet of Bay Park	April 2021
Bay Park Shaft 2	Hamlet of Bay Park	May 2021
Bay Park Shaft 3	Hamlet of Oceanside	June 2021
Bay Park Shaft 7	Village of Rockville Centre	July 2021
Cedar Creek Shaft 2	Hamlet of Wantagh	July 2021

Upcoming Construction Activities at a Glance

Construction Activity	Municipality	Anticipated Start Date
Cedar Creek Shaft 3	Hamlet of Wantagh	August 2021
Sunrise Highway Pit O	Village of Freeport	August 2021
Bay Park Shaft 5	Village of East Rockaway	August 2021
Bay Park Shaft 4	Hamlet of Oceanside	August 2021
Bay Park Shaft 8	Village of Rockville Centre	September 2021
Bay Park Shaft 9	Village of Rockville Centre	September 2021
Sunrise Highway Pit P	Village of Freeport	September 2021
Sunrise Highway Pit Q	Hamlet of Merrick	September 2021

Early Work Activities

Prior to microtunneling and sliplining activities, early work activities will occur at each work site along the Project alignment in Spring 2021

These activities will have limited impact to the public and depending on the activity, will occur during the day or overnight:

1. Preconstruction Surveying
2. Environmental Testing
3. Utility Test Pits

Preconstruction Survey

Preconstruction surveying is conducted to determine existing conditions of the area surrounding a work site.

On Sunrise Highway, crews will examine the existing aqueduct to determine condition

- Involves entering the aqueduct via manholes along Sunrise Highway
- Occurs overnight and will require lane closures

Surrounding each microtunneling shaft location, crews will take photographs and measurements

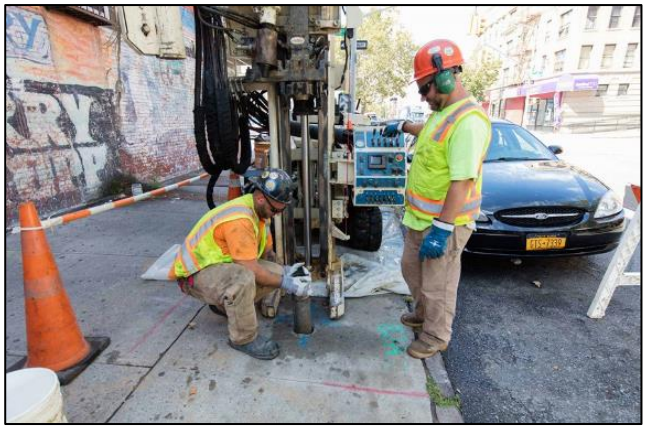
- No traffic impacts or lane closures are expected

Properties within close proximity of the work zone will be offered an opportunity to have their home or business surveyed prior to the start of construction.

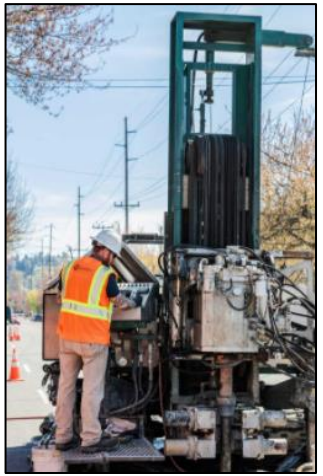
Environmental Testing

Environmental testing to determine soil classification

- Takes place during the day along the alignment
- Occurs along the shoulder or median of the roadway
- No traffic impacts are expected to occur during this activity



Environmental Drilling & Sampling
**Source: Cascade Environmental*



Geotechnical Drilling
**Source: Cascade Environmental*

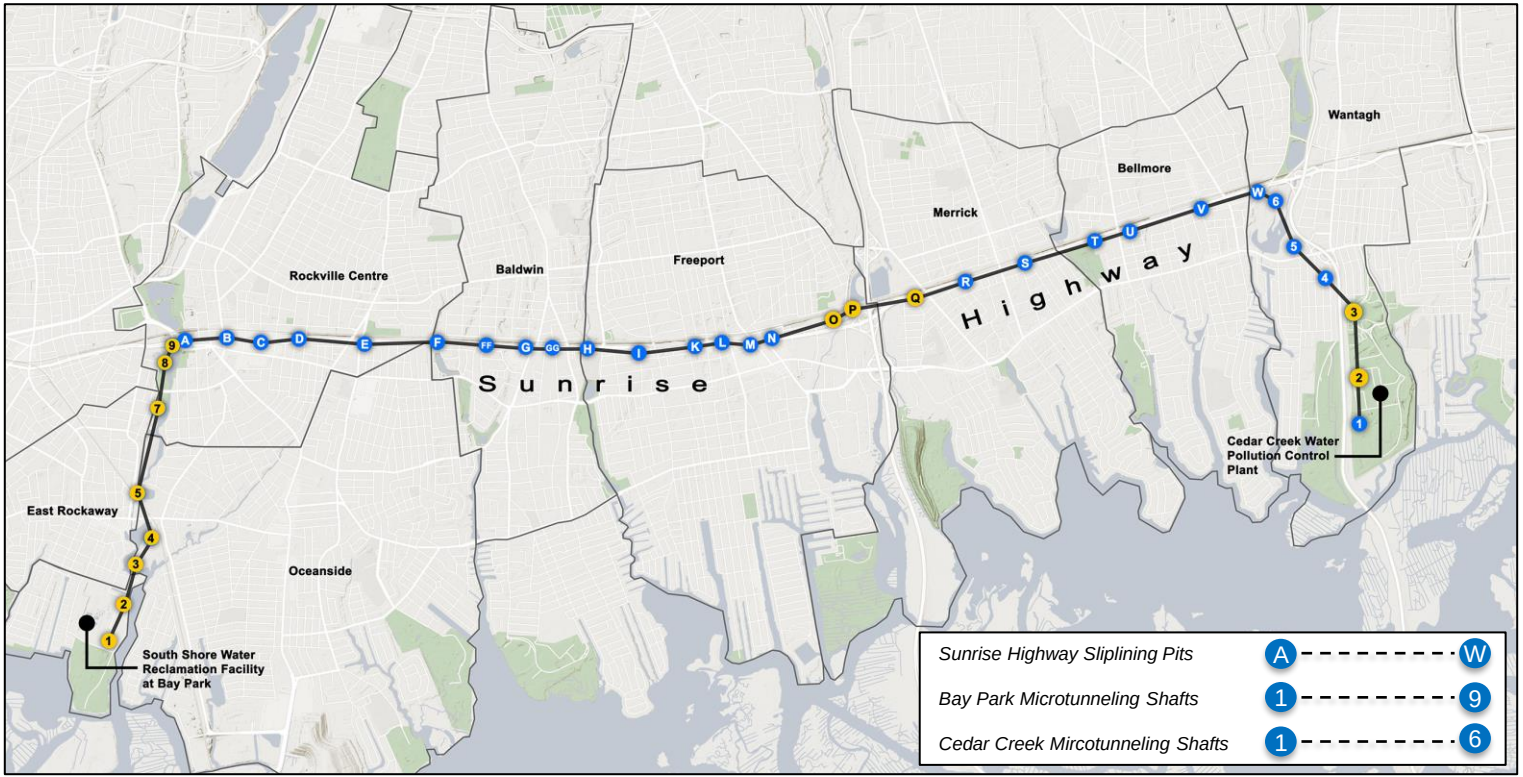
Utility Test Pits

Utility test pits are used to determine where underground utilities exist

- Approximately 4 feet L x 4 feet W x 5 feet D
- Requires an excavator and hand tools
- Occurs overnight and requires lane closures to facilitate

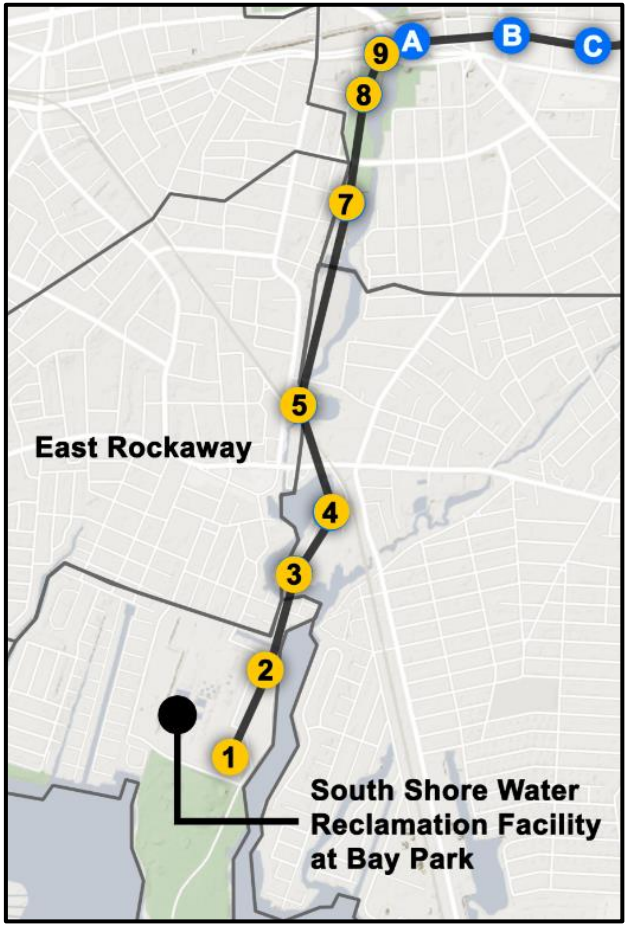
Test Pits

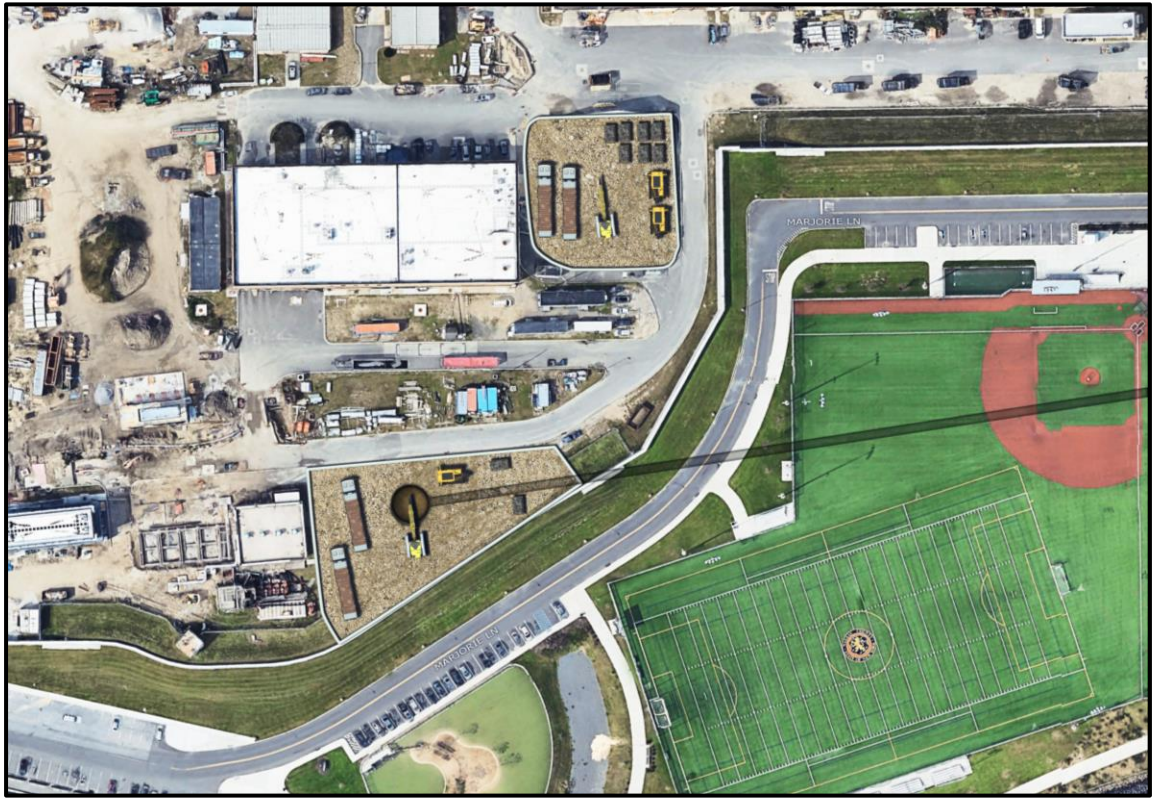
Upcoming Construction Activities 2Q2021 & 3Q2021



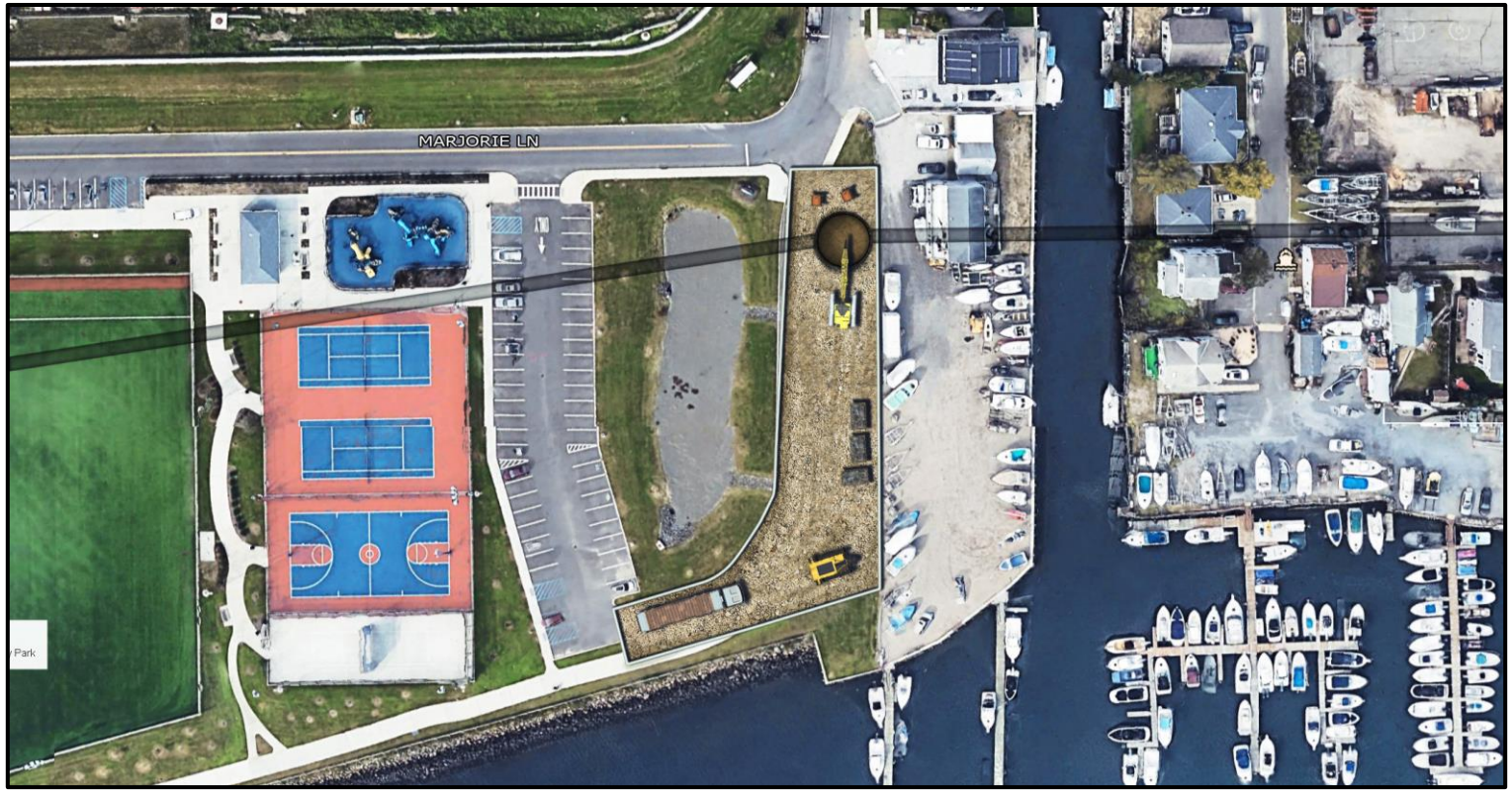
Bay Park Microtunneling

- Shafts 1, 2, 3: Spring 2021
- Shafts 4, 5, 7: Summer 2021
- Shafts 8 & 9: Fall 2021
- Sites will be fenced and secured
- Trucks will transport materials to and from shaft sites





Illustrative Graphic of Bay Park Shaft 1



Illustrative Graphic of Bay Park Shaft 2

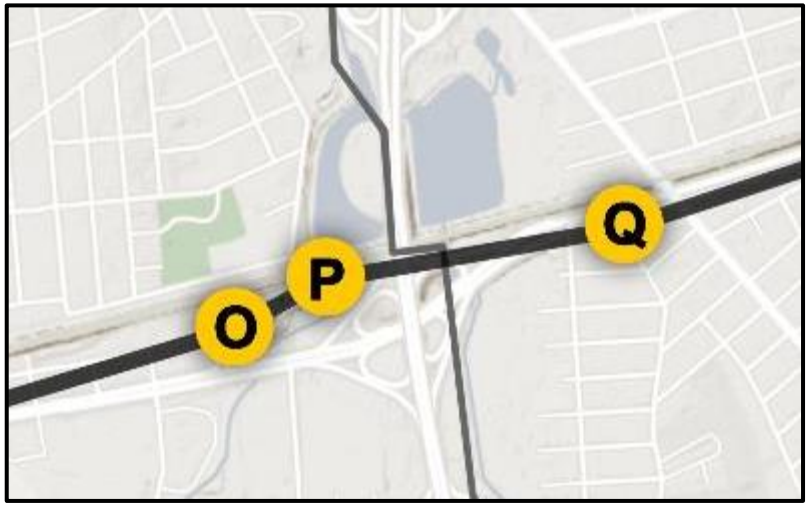
Illustrative Graphic of Bay Park Shaft 3

Bay Park Effluent Pump Station

- Construction is expected to begin April 2021
- Work will occur within the footprint of the South Shore Water Reclamation Facility
- Work may occur during the day or overnight
- No impact to public use of Bay Park is expected

Sunrise Highway Sliplining

- Pit O – Summer 2021
- Pits P & Q – Fall 2021
- Pit Q construction to occur overnight
  - Will require Maintenance and Protection of Traffic (MPT) & Work Zone Traffic Control (WZTC)
- Sites will be fenced and secured
- Trucks will transport materials to and from the pit sites



Illustrative Graphic of Sunrise Highway Pit O

Illustrative Graphic of Sunrise Highway Pit P

Illustrative Graphic of Sunrise Highway Pit Q

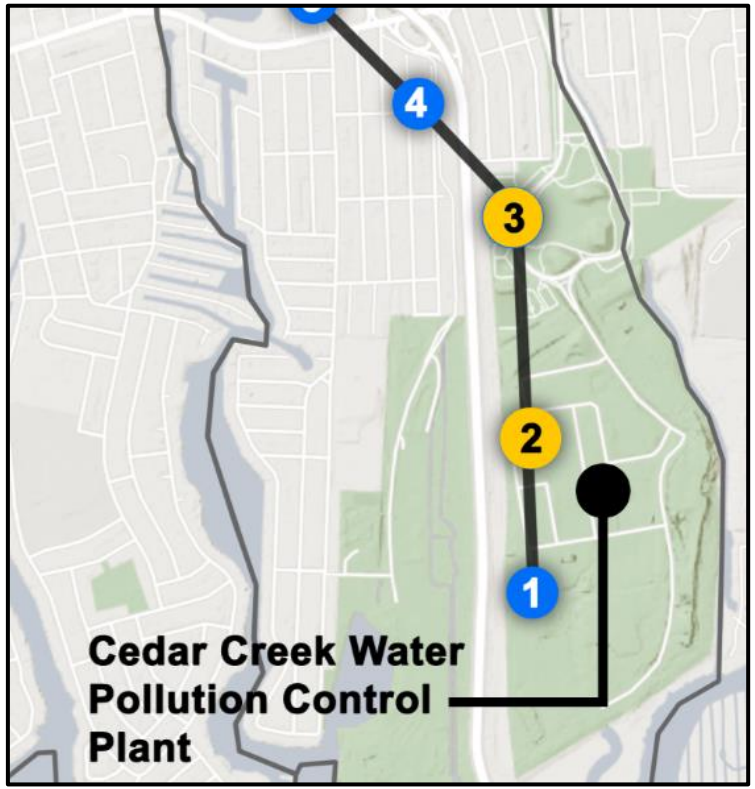
Addressing Sunrise Highway Construction Impacts

- Work along Sunrise Highway is anticipated to occur overnight
- Three active work sites on Sunrise Highway at one time
- WZTC will assist motorists and pedestrians around lane closures
- Advance signage will be in place
- Lane closures may be necessary to facilitate early work activities

Illustrative Graphic of WZTC along Sunrise Highway

Cedar Creek Microtunneling

- Shaft 2 & 3: Summer 2021
- Sites will be fenced and secured
- Trucks will transport materials to and from the shaft sites
- Construction of shafts 1, 4, 5, 6 to follow



Illustrative Graphic of Cedar Creek Shaft 2

Illustrative Graphic of Cedar Creek Shaft 3

Spotlight on Safety & Construction Site Tidiness

- All work pits and shafts will be enclosed and protected with fencing, inaccessible to the public
- Following all OSHA guidelines
- Community Air Monitoring Program (CAMP) active during construction
  - Monitoring for air quality, dust and vibrations
- Quality control team will be present during each operation

4. Public & Stakeholder Outreach

Community Outreach

The WBC Community Outreach Team will:

- Serve as stakeholder's direct point of contact for project information
- Deliver accurate information in a timely fashion
- Conduct door-to-door canvassing with leave-behind notices describing specific project activity
- Respond to 24/7 hotline and email inquiries
- Identify specific community concerns about construction

Travis Brennan
Project Information Officer

Ginger Conforti
Outreach Manager

Margo Cargill
Community Ambassador

Gary Lewi
Senior Consultant

Addressing Construction Impacts

Using innovative outreach methods, the WBC Outreach Team will:

- Provide regular construction updates (e.g. monthly construction lookaheads and e-blasts)
- Provide regular meetings with project stakeholders
- Provide advance notification of any disruptive work or road closures
- Maintain a 24/7 hotline for the community to communicate with the WBC
- Monitor conformance to Work Zone Traffic Control Plans
- Maintain access to existing businesses
- Monitor compliance of a dust management plan, and a community noise and vibration monitoring program

Outreach Materials

- Monthly Construction Updates
- Quarterly Newsletters
- E-Newsletters
- Social Media
- Dedicated Project Website
- Factsheets
- Canvassing Notifications

Contact Us

24/7 Project Hotline
(516) 252-6121

Community Information Center
265 Sunrise Highway,
Rockville Centre New York, 11570
**Currently open by appointment only*

Email
BayParkConveyance@gmail.com

Facebook
@BayParkConveyance

Website
www.BayParkConveyance.org

5. Question and Answer Session

Speaker Instructions

Use the raise hand feature to indicate you have a comment.
If you are joining by phone, press *9 to raise your hand.

When called upon, a member of the Project Team will unmute your audio.
You will then have to unmute yourself.
If you are joining by phone, press *6 to unmute yourself.

State and spell your name and affiliation (e.g. resident, press, etc.) prior to providing your comment. Please limit your comments to three minutes.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Thank You!