



Clean Rivers Project - Potomac River Tunnel Watergate Tunnel Forums March 17 & 25, 2026



Moussa Wone, Chief Engineer and Vice President

Agenda

01 DC Clean Rivers Project **Hadiyah Jordan**

02 Potomac River Tunnel

03 Rock Creek Trail (CSO 022)
Construction Site

**Steven Wheeler &
Waleed Assaf**

04 dcwater.com/PRT

05 Sign Up for Email Updates

Hadiyah Jordan

06 Contact Information

07 Questions and Answers

Project Team

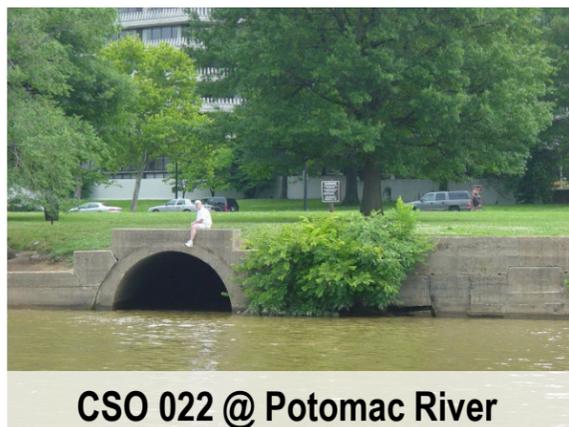
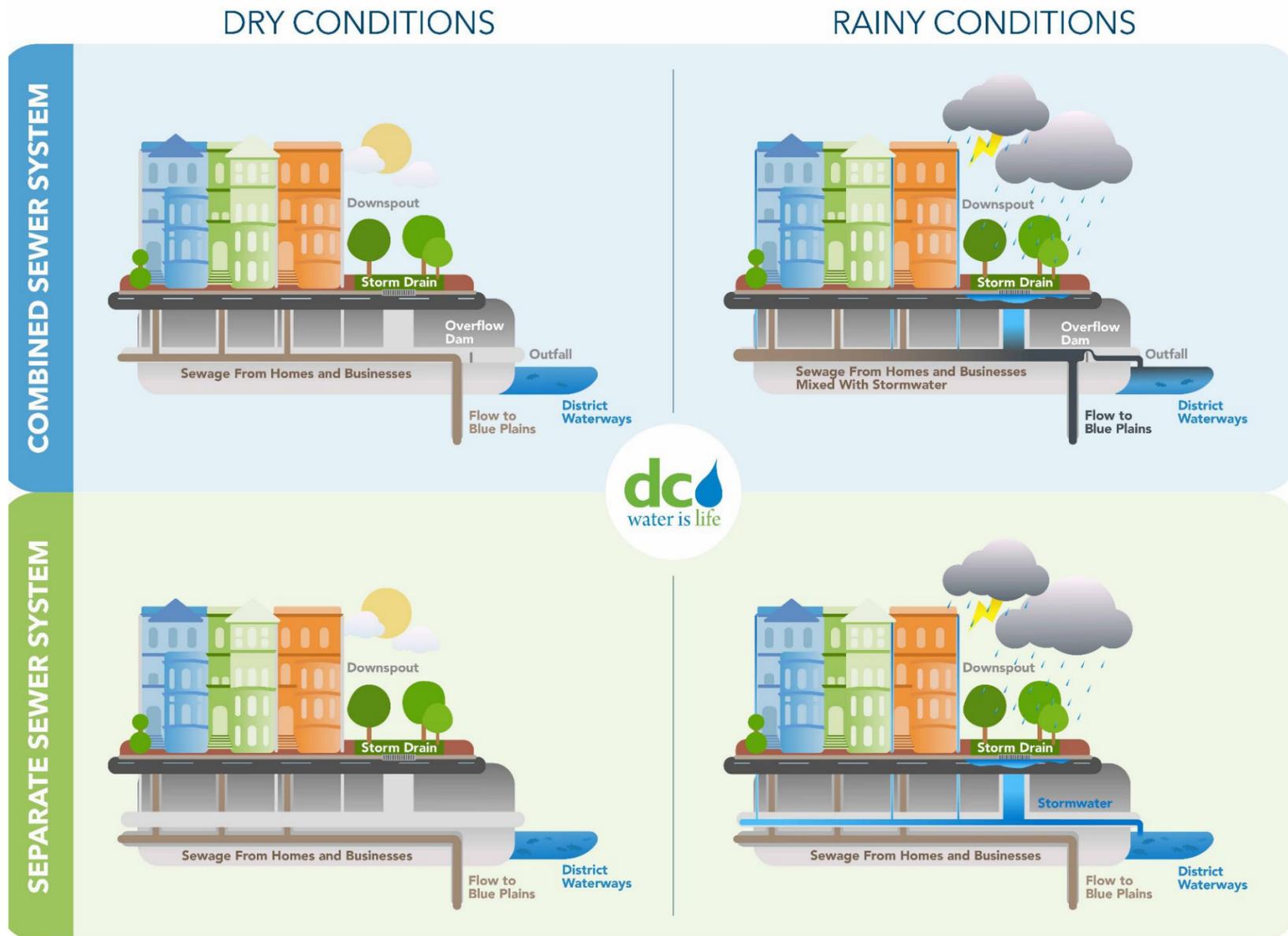
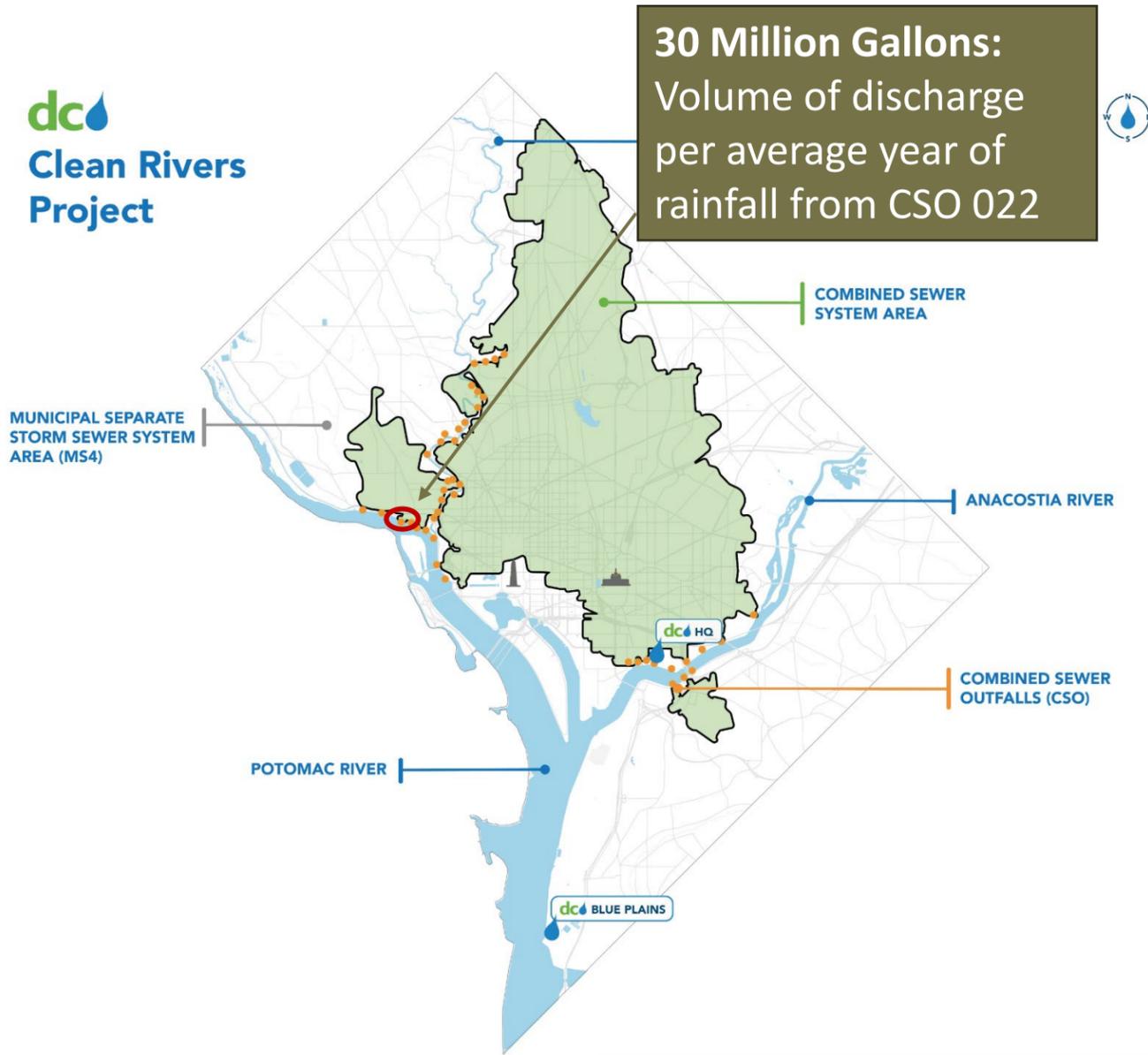
DC Clean Rivers Project

Combined Sewer Overflow (CSO)
Indicator Light.
Red Light Indicates Active CSO.
Amber Light Indicates CSO
Within Last 24 Hours.

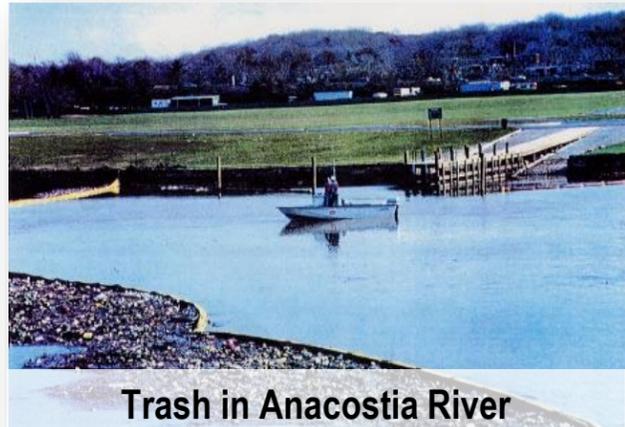


Combined Sewer System in the District

dc
Clean Rivers
Project



CSO 022 @ Potomac River



Trash in Anacostia River

- 1/3 of District is served by combined sewers (12,478 acres)
- Combined Sewer Overflow (CSO) outfalls
 - 15 to Anacostia River
 - 10 to Potomac River
 - 23 to Rock Creek

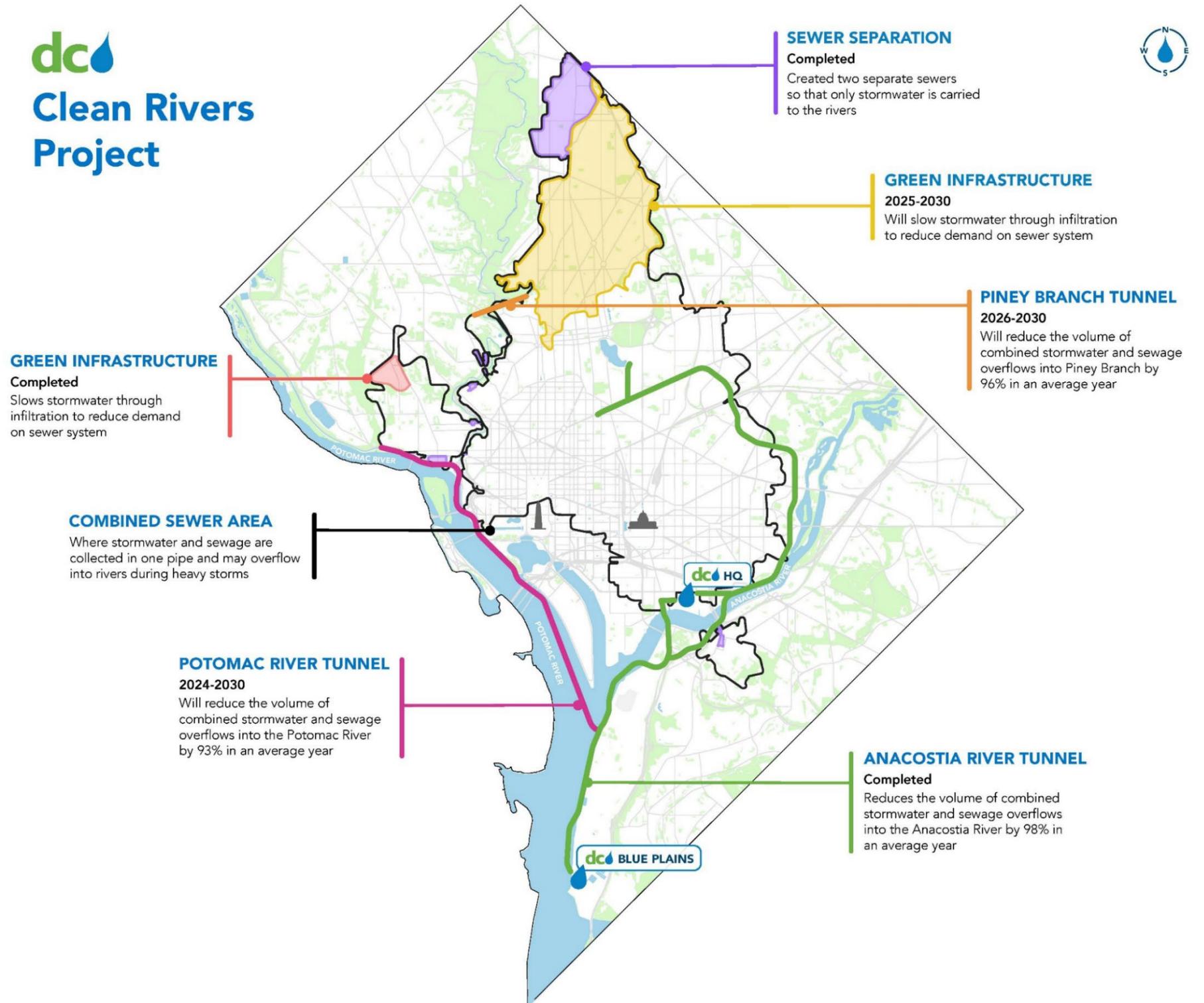
dc Clean Rivers Project

DC CLEAN RIVERS PROJECT AND NITROGEN REMOVAL PROGRAMS

- DC Clean Rivers Project: \$3.29 Billion
- Nitrogen Removal: \$950 Million
- Total > \$4.2 Billion
- 25 yr implementation (2005 – 2030)
- 96% reduction in CSOs
- Approx. 1 million lbs/yr nitrogen reduction

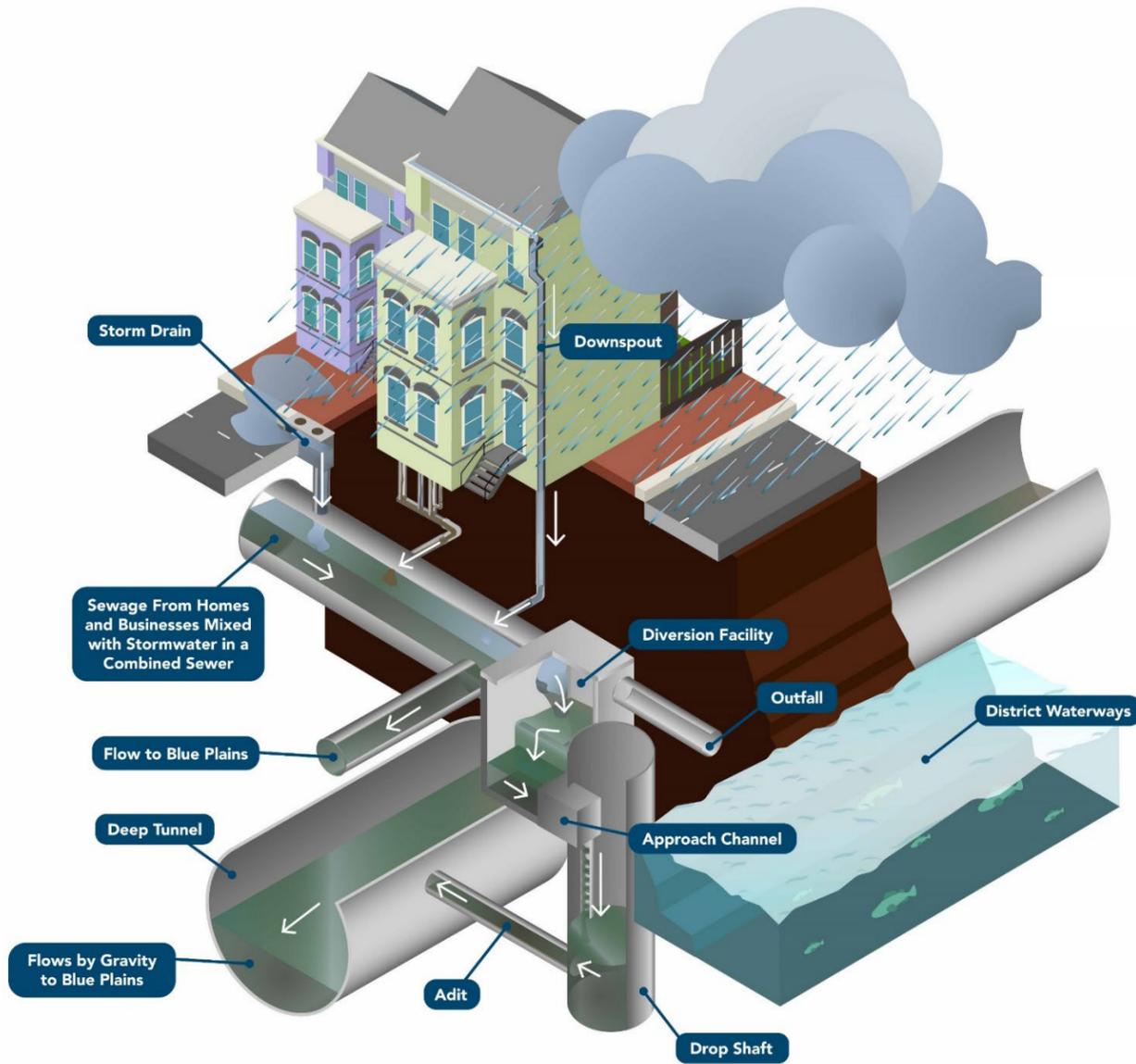
The project is required by a Consent Decree signed by the Environmental Protection Agency, Department of Justice, District of Columbia, & DC Water

dc Clean Rivers Project



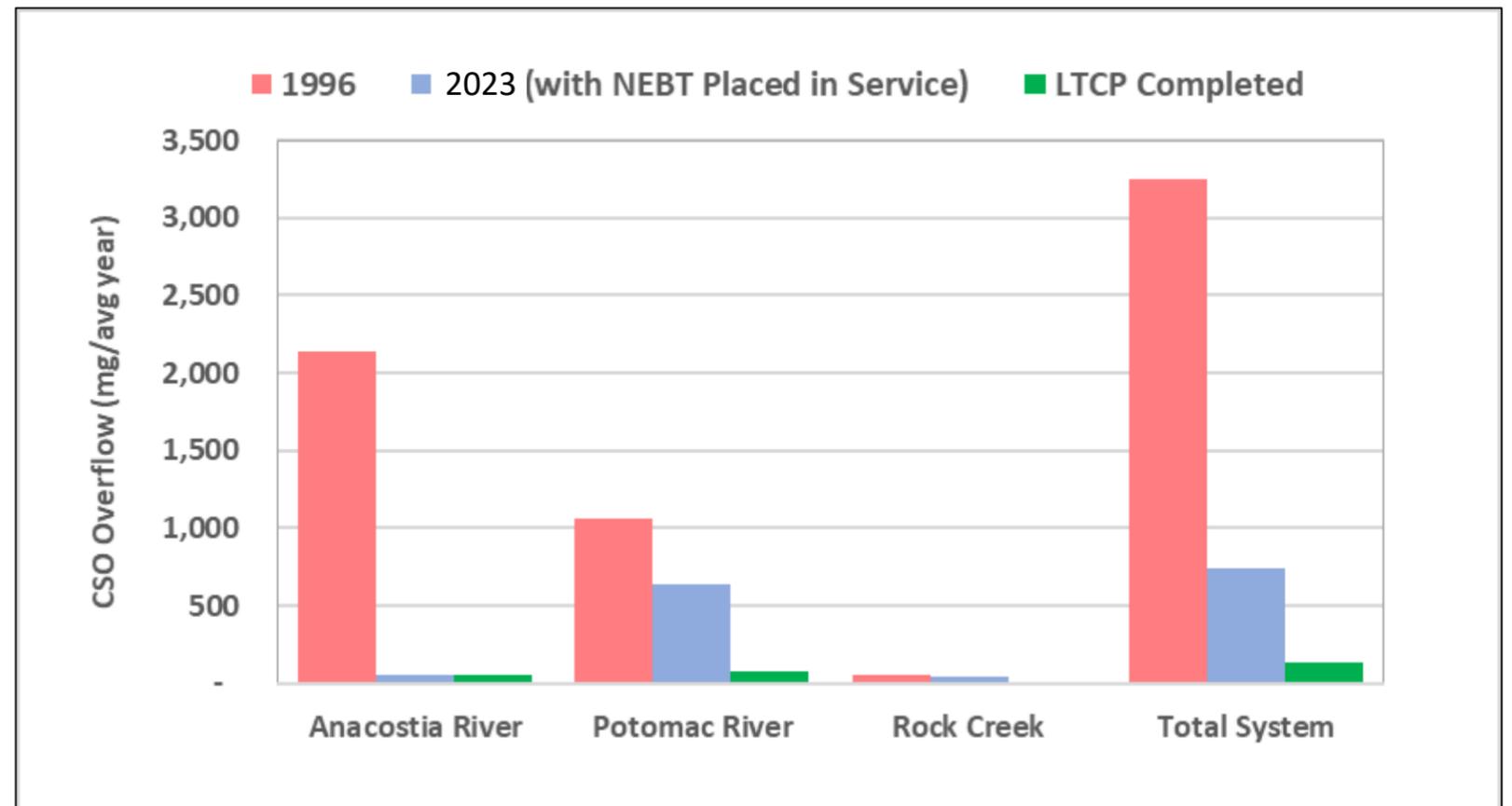


Clean Rivers Project Performance



Parameter	Phase	Anacostia River	Potomac River	Rock Creek	Total
CSO Volume (mg/avg year)	DC Water created (1996)	2,142	1,063	49	3,254
	Clean Rivers complete	54	79	5	138
	% reduction	98%	93%	90%	96%
CSO Frequency (#/avg yr)	DC Water created (1996)	82	74	30	186
	Clean Rivers complete	2	4	1 / 4 ¹	

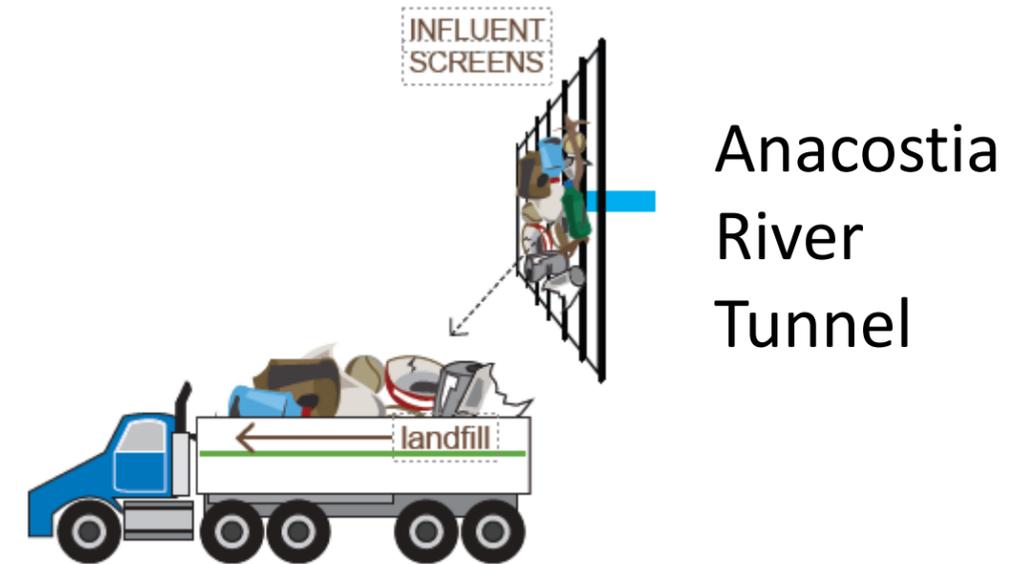
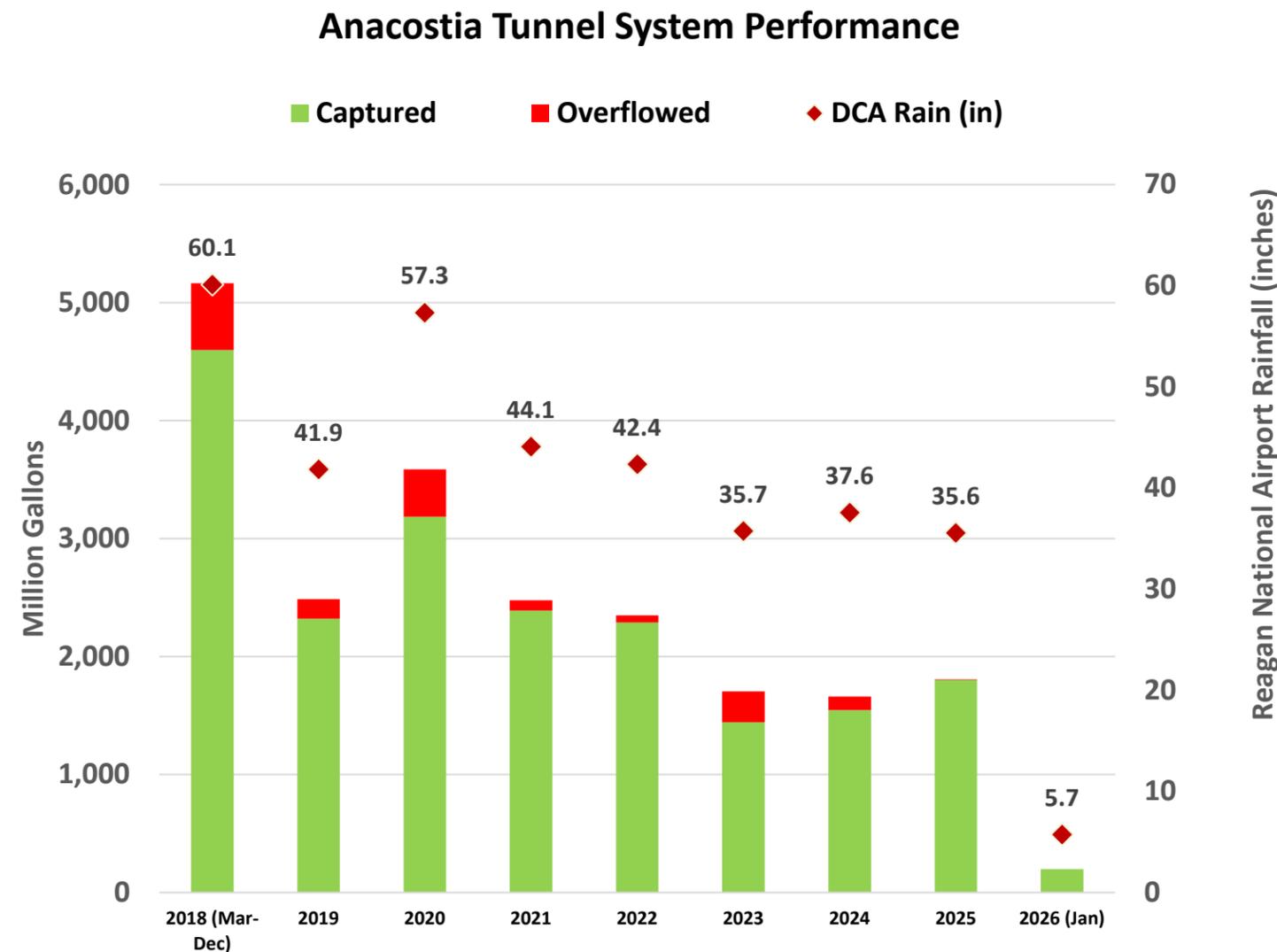
¹One at Piney Branch, four at the other Rock Creek CSOs





Anacostia River Tunnel System Performance to Date

- Over **19.79 billion gallons** captured March 2018 – April 2026
- Over **12,555 tons of trash**, debris, and other solids captured



Trash, Debris and Solids Removed at Blue Plains from Anacostia Tunnel System

Potomac River Tunnel





Potomac River Tunnel

Project

- Approx 5.5 miles of 18 feet finished tunnel
 - 2.4 miles in rock (north)
 - 3.1 miles in soil (south)
- 7 shafts
- Connection to existing Tunnel System

Schedule

- NTP: Nov 2023
- Construction Start: 2024
- Consent Decree Deadline: 2030

LEGEND

- Potomac River Tunnel
- Anacostia River Tunnel System
- Construction Site With Diversion Facility
- West Potomac Park Site
- X Connection to Blue Plains Tunnel and JBAB Overflow Site



SITE LOCATIONS

- CSO 029**
Georgetown University: West of Canal Road Entrance
- CSO 028**
Georgetown: Capital Crescent Trail west of Aqueduct
- CSO 027**
Georgetown: Georgetown Waterfront Park
- CSO 024**
Georgetown: K St NW and 30th St NW
- CSO 022**
Rock Creek Trail west of the Watergate Complex
- CSO 021**
Victura Park at Kennedy Center
- CSO 020**
West side of the Park at Lincoln Memorial
- West Potomac Park**
West Potomac Park Field #7
- Tunnel Connection to JBAB**
Riverfront location at Joint Base Anacostia-Bolling

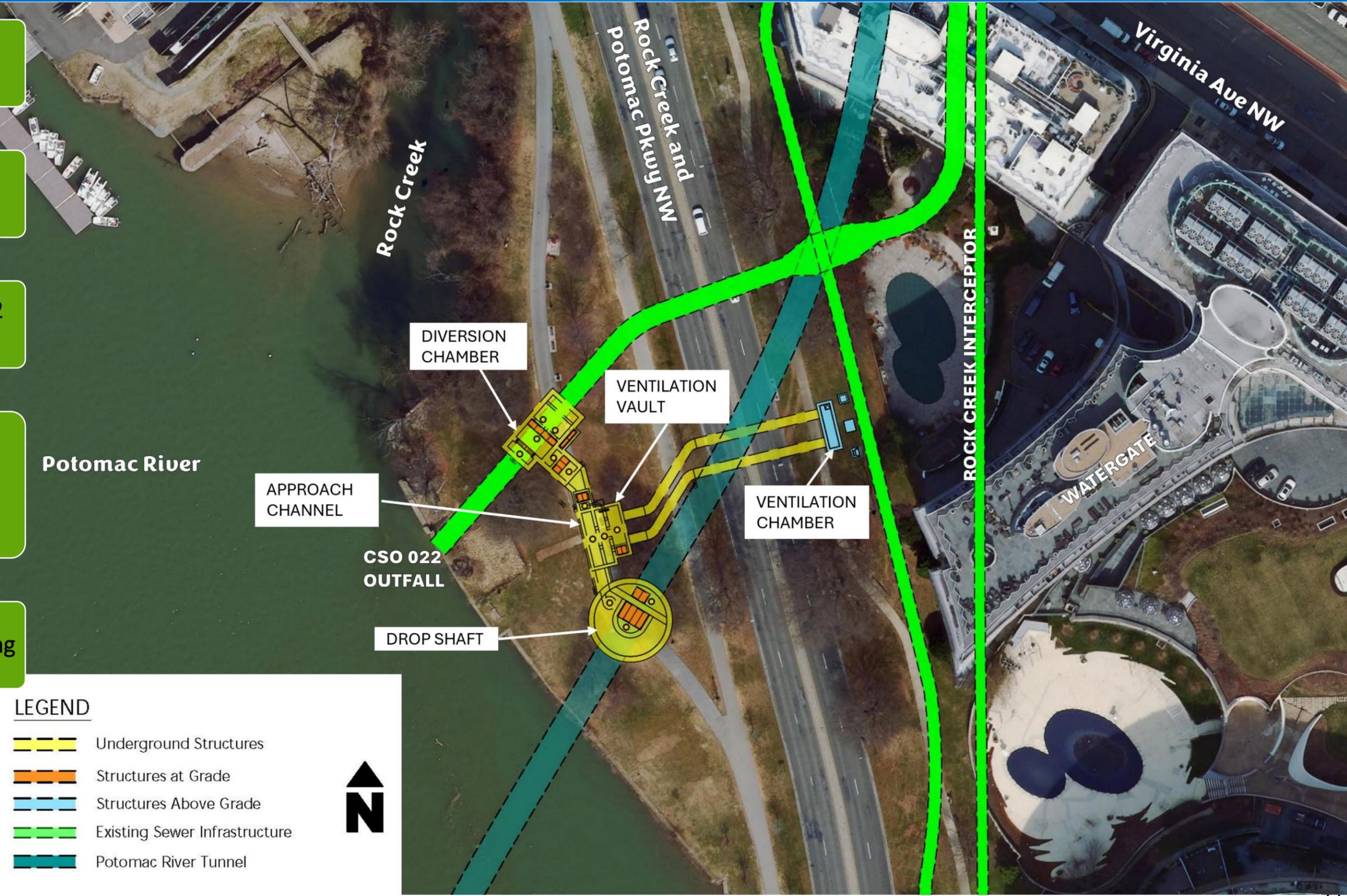


Rock Creek Trail (CSO 022) Construction Site

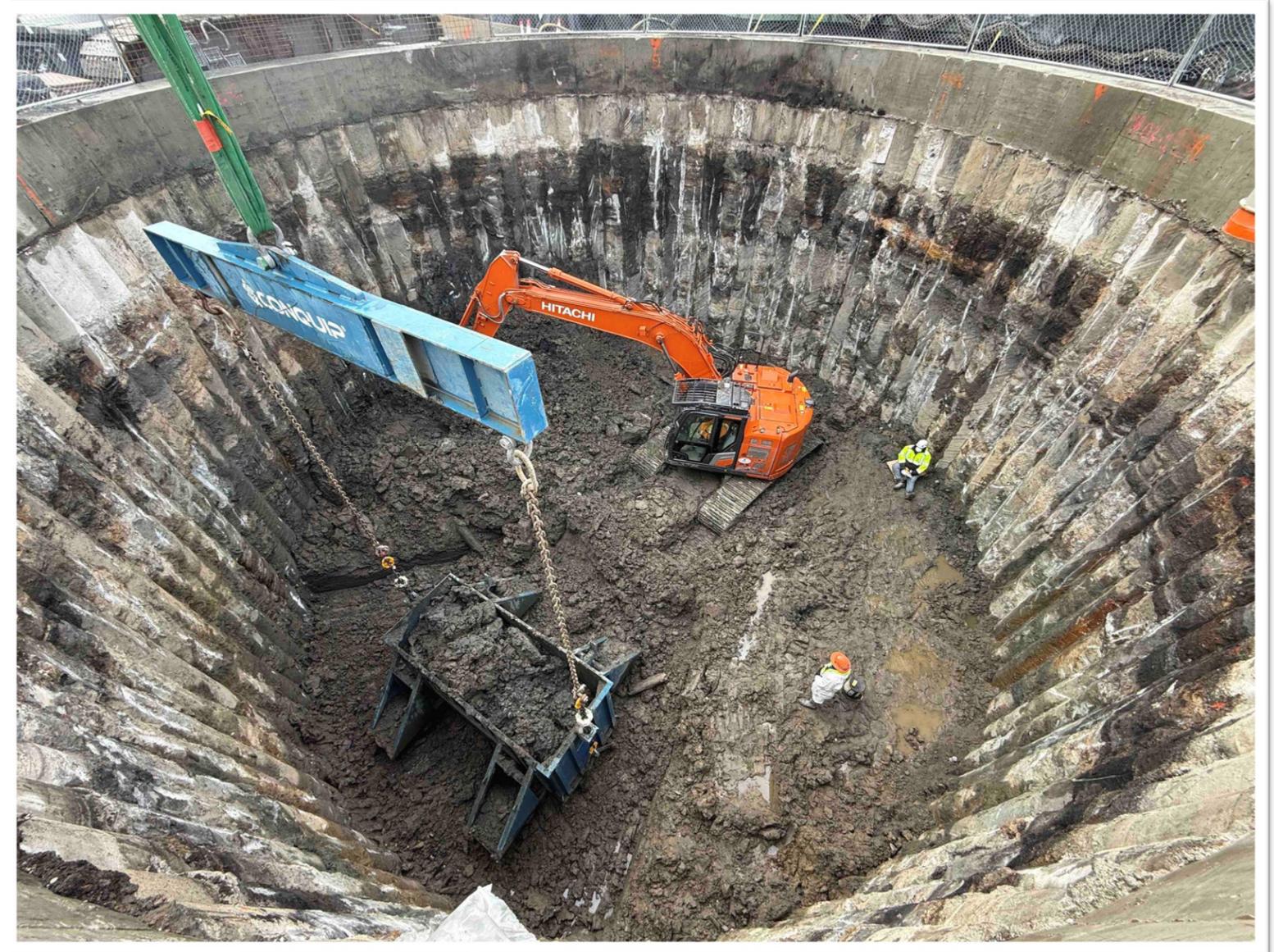
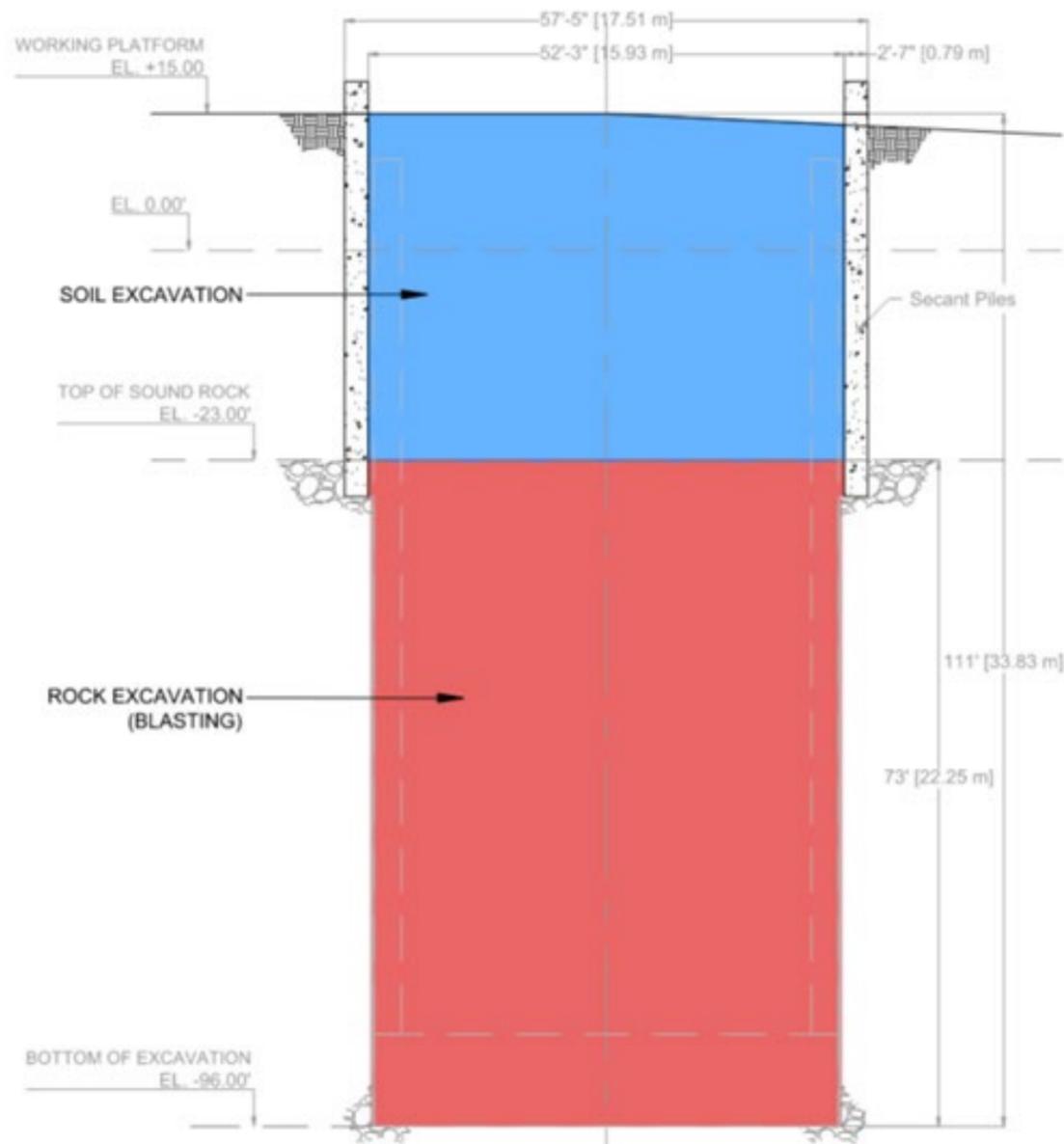


Rock Creek Trail (CSO 022) Construction Site

- Site Set-Up
- Construction of Drop Shaft (preparing for tunnel)
- Tunnel Passes Through CSO 022 Site
- Construction of supporting infrastructure (Diversion Chamber, Approach Channel, Ventilation Facility)
- Site Restoration and Landscaping



dc Excavating the Shaft



LEGEND

-  Soil Excavation
-  Rock Excavation (Blasting)



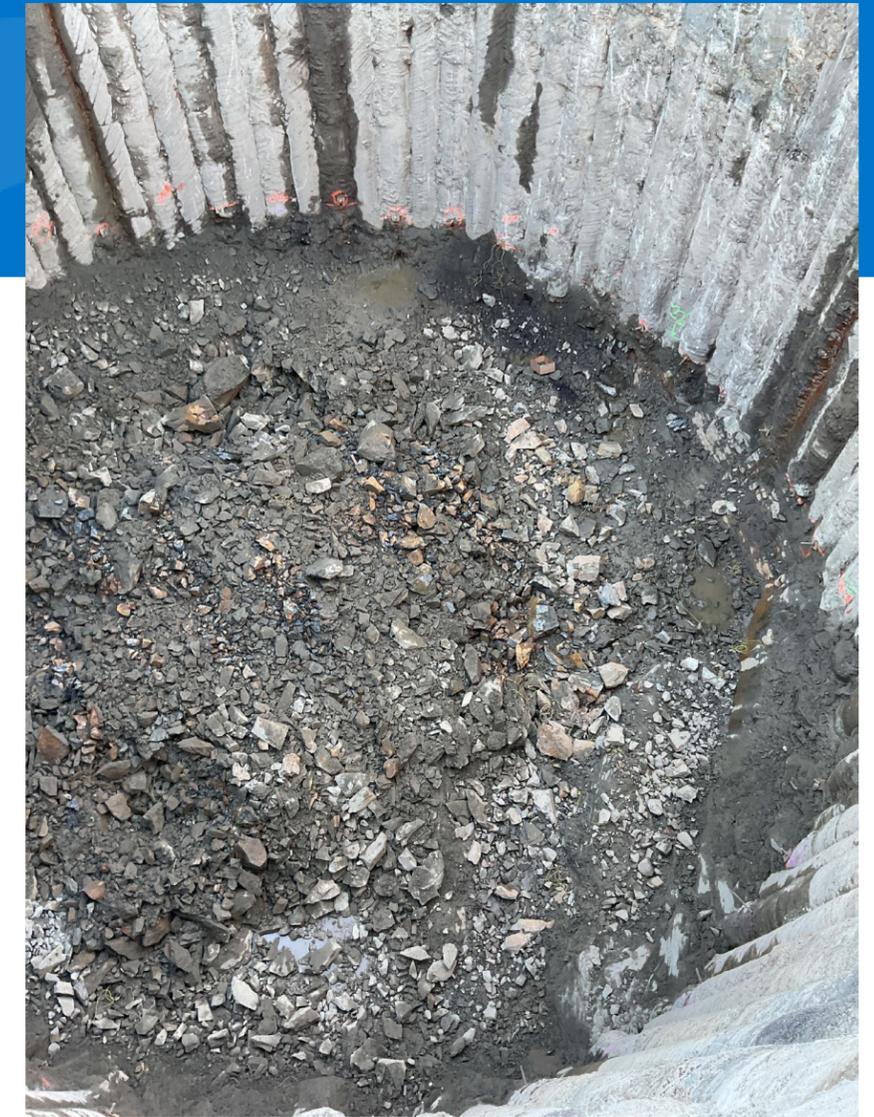
Controlled Underground Blasting

Details

- Scheduled approximately every two weeks between March and August 2026
- Monday through Friday, between 9 a.m. and 3 p.m.
- Carefully managed by experienced safety professionals, with oversight from local and federal agencies.
- Noise and ground vibrations are closely monitored to ensure safety and compliance.

What to Expect

- Before each blast, you'll hear an air horn signal and see flaggers temporarily close the nearby trail and, for about five minutes, briefly stop traffic on the parkway.
- After the blast, another air horn will let everyone know it's safe to resume normal activities.



Test Blast Schedule (UPDATED)

While we aim to keep the schedule as consistent as possible, test blast dates may shift as field conditions or coordination needs arise.

- Test Blast #1: March 16, 2026
- Test Blast #2: March 20, 2026
- Test Blast #3: April 3, 2026



Monitoring Noise & Vibration

- A monitoring program will measure and document movements.
- Instrumentation data is routinely reviewed by engineers from the Contractor and DC Water.
- A Right of Entry between DC Water and the Owner is required for survey targets to be installed and monitored on private property.
 - Survey targets will only be placed on the exterior of structures.
 - Survey targets will be measured daily when excavation occurs nearby.



- Noise and Vibration Specialist
 - Conducts daily monitoring
 - Implements mitigation measures
- Contractor held to DCMR limit of 80 dBA during weekday days
 - Nighttime limit 55 dBA
 - Weekend limit 60 dBA

dc Noise Mitigations





Rock Creek Trail (CSO 022) Construction Site Renderings

Project Completed

Existing





Rock Creek Trail (CSO 022) Construction Site Renderings

Project Completed

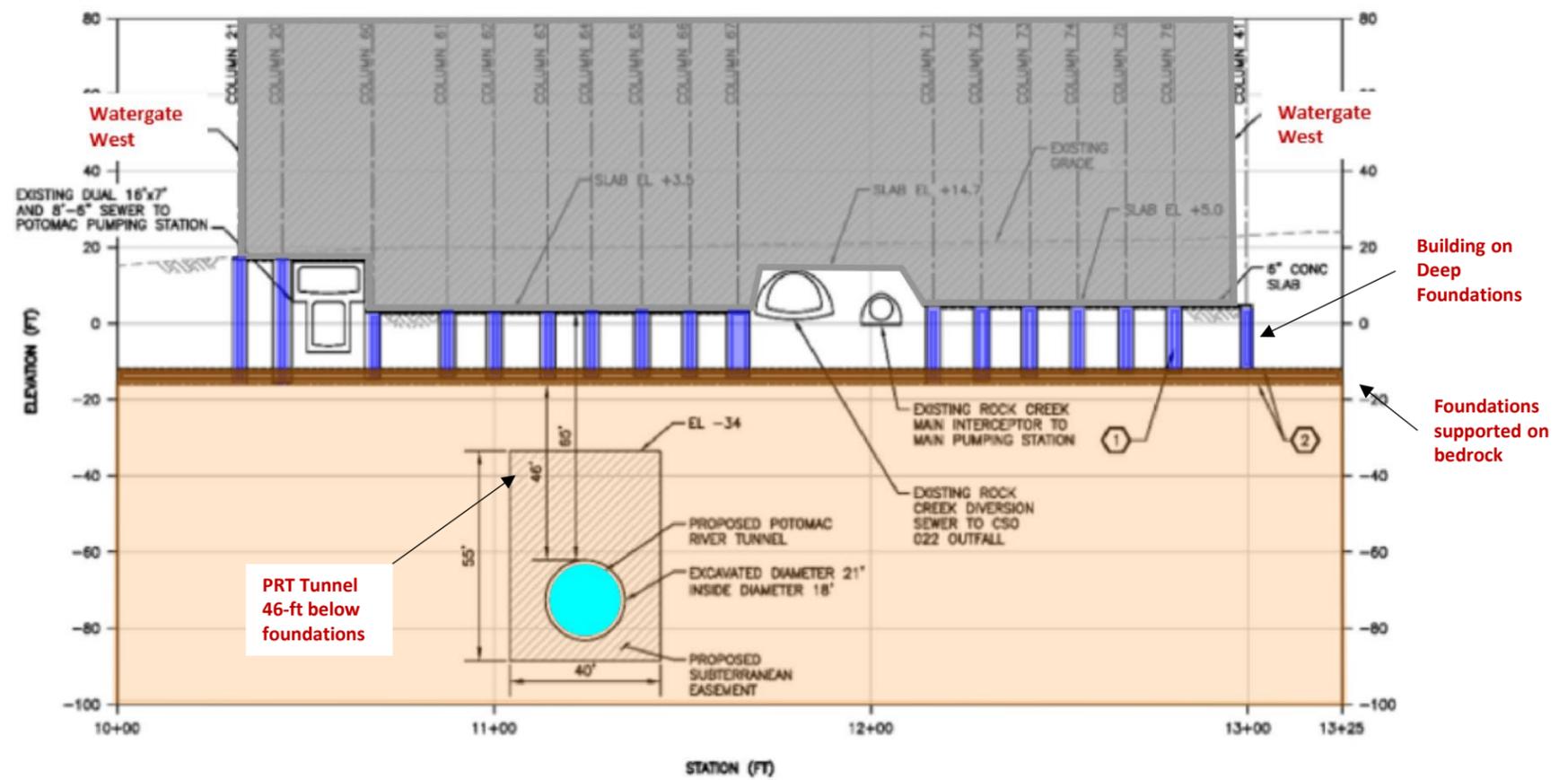
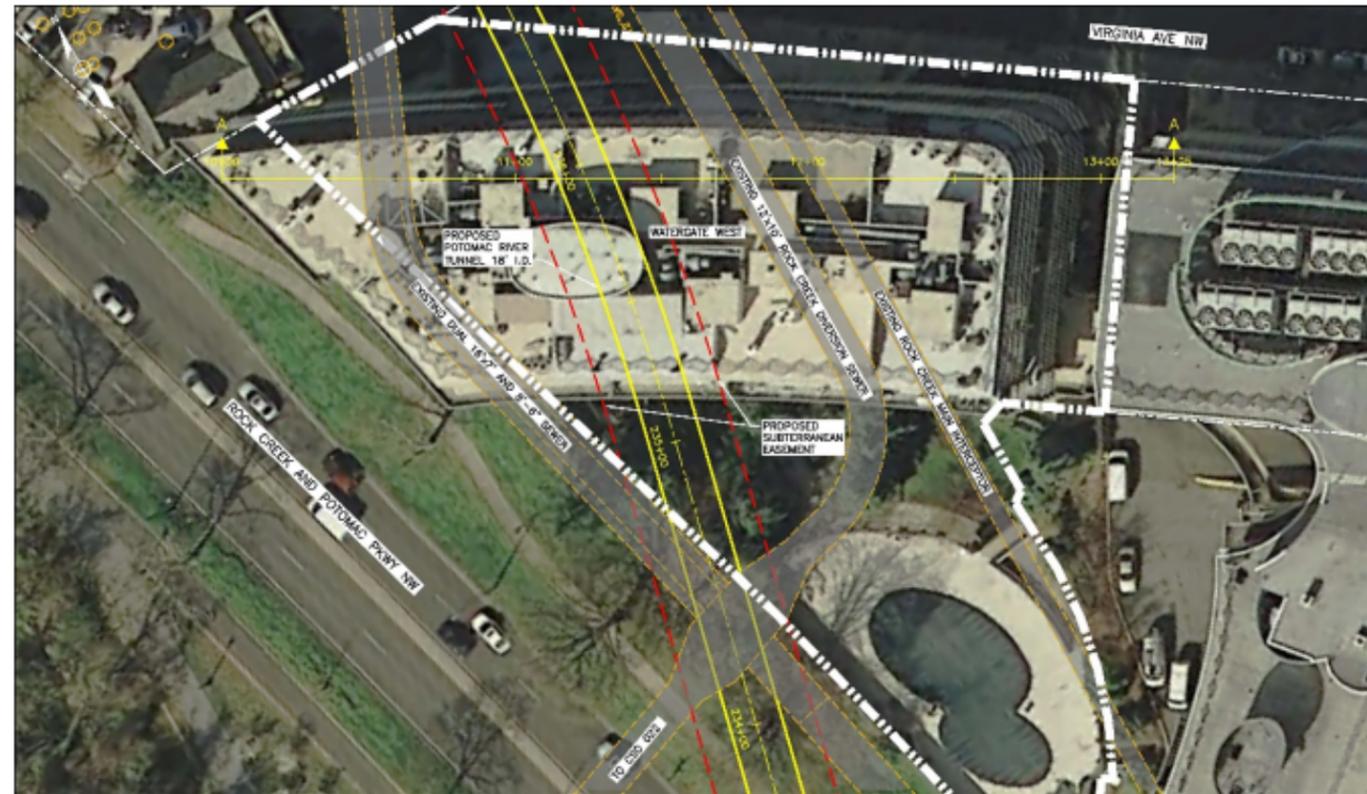
Existing





Watergate West Undercrossing

- Watergate West is supported on concrete foundation piles that bear on bedrock
- Potomac River Tunnel would pass:
 - ~65 feet beneath the basement floor
 - ~46 feet beneath the base of the foundation piles
- Construction Impact Assessment Report (CIAR) developed by DC Water engineers
- Findings: No construction impacts to the Watergate West Building are anticipated.
- Watergate West independent engineer (WJE) has reviewed and concurs with the assessment
- Numerous tunnels of this size have been constructed beneath existing structures on other projects in the U.S., including by DC Water
 - Example: Anacostia River Tunnel came within 6 feet of piles for a District Dept. of Transportation bridge. Tunnel was in soft ground.



dc TBM Data Monitoring

Tunnel Boring Machine (TBM) data monitoring measures

- how hard it's pushing,
- how fast it's moving,
- the precise location,
- and + thousands of data points that the team uses to ensure a safe passage.

This ensures the TBM is running smoothly and performing as expected.



TBM Data Monitoring

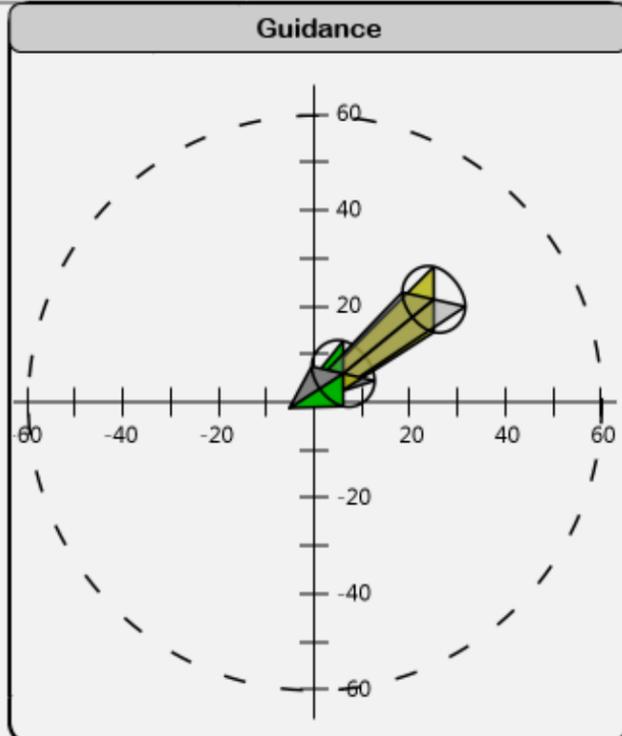
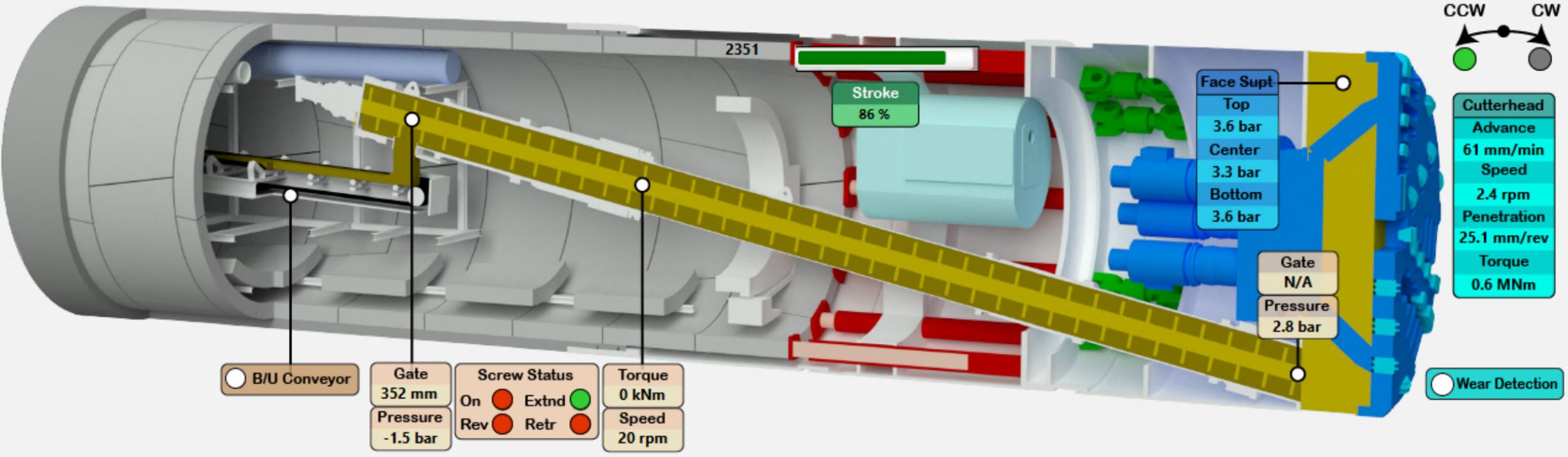


Last Update
02-21-2024 00:47:03 PM

TBM PLC to Surface PLC

Ring 2352	00:19:19	00:19:19
TBM state mode Advance	00:19:19	00:19:19
TBM state mode ringbuild...	00:00:00	00:00:00
Waiting Time	00:00:00	00:00:00

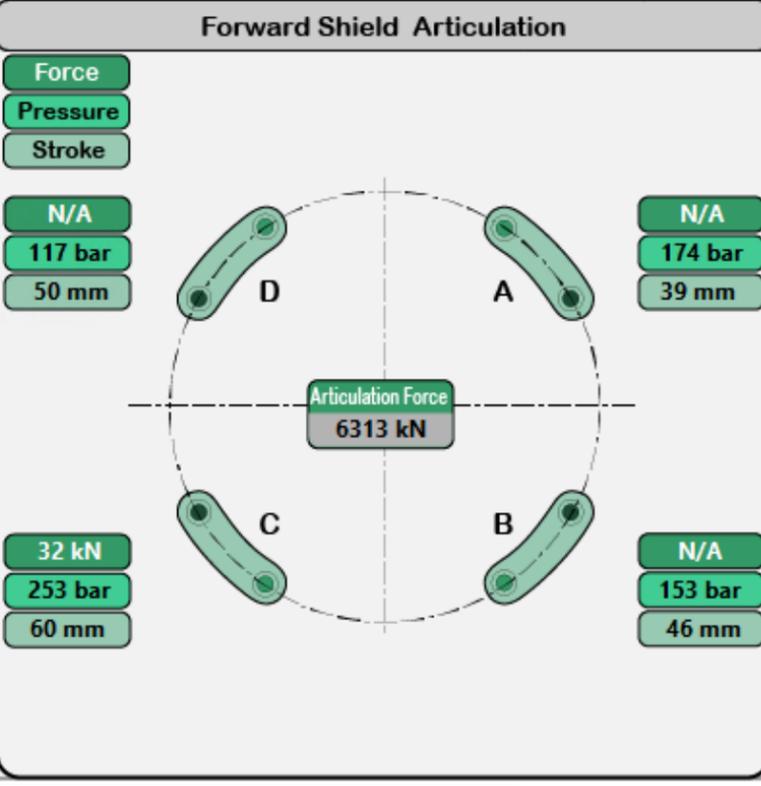
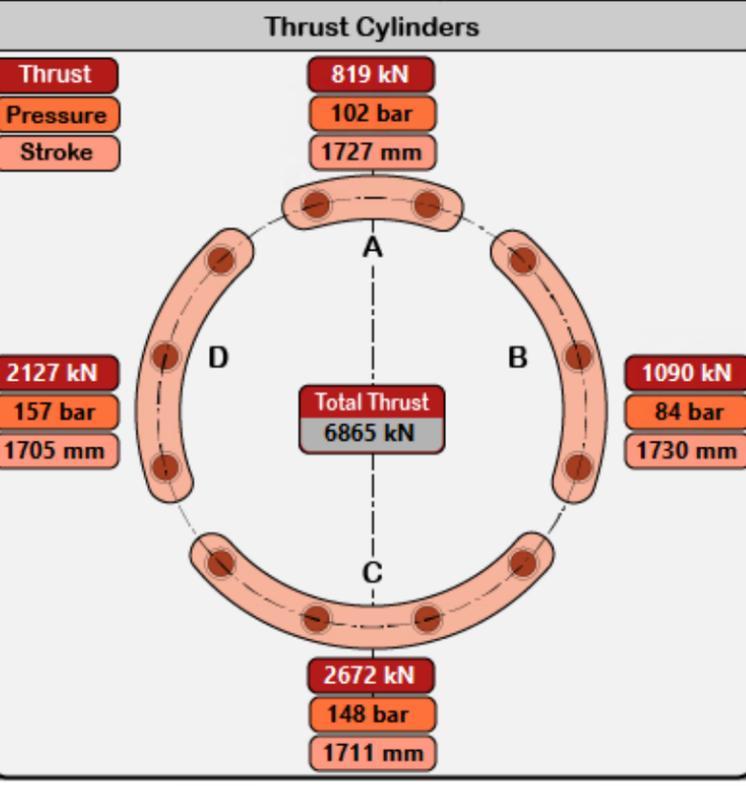
Chainage 10616.61 ft	Station 116+35.08 ft.	Ring Advance 2352	Net Stroke 1186 mm
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Tail Void Grout	
<input type="radio"/> Automatic	<input type="radio"/> Semi Automatic
<input type="radio"/> Manual	
Nom. Vol 2.38 m ³	Comp. A. 2.07 m ³
Act. Vol 2.23 m ³	Comp. B. 0.15 m ³
Nom / Act 94 %	Dosage B 7.5 %

Muck			
Scales			
Weight 1 45.35 t	Weight 2 44.75 t	Avg Wgt 1/2 58.8 t	Dev Wgt 1/2 1.3 %
Flow 1 85.0 t/h	Flow 2 82.3 t/h	Avg Flow 1/2 83.6 t/hr	Dev Flow 1/2 3.2 %
Nominal values			
Theo Den 2.16 t/m ³		Net Volume 18.48 m ³	Net Weight 39.97 t
Deviation Nom vs Actual		Volume	Weight

Tail Seal Grease			
Rear		Front	
Quantity 3.0 kg	Quantity 2.64 kg	per m ² Ring OD 2 kg/m ²	
Pump 1 Stroke 516	Pump 2 Stroke 516	Pressure 1.6 bar	Pressure 1.47 bar



Tail Shield			
Passive Articulation			
Stroke		TBM Strk - Art Strk 0 mm	
Group A 5 mm	Group B 6 mm	Group C 1 mm	Group D 2 mm
Art Pressure 0.0 bar	Art Net Strk 1 mm		

Ground Conditioning	
<input type="radio"/> Automatic	<input type="radio"/> Semi Automatic
<input type="radio"/> Manual	
C _F 1	C _F 2
FER 1.8	
FIR 1.1 %	
Consumption / Ring	
Foam 7.2 m ³	Tenside N/A
Polymer -0.1	Bentonite -0.0 m ³
Water 3.1 m ³	Air 4.1 m ³

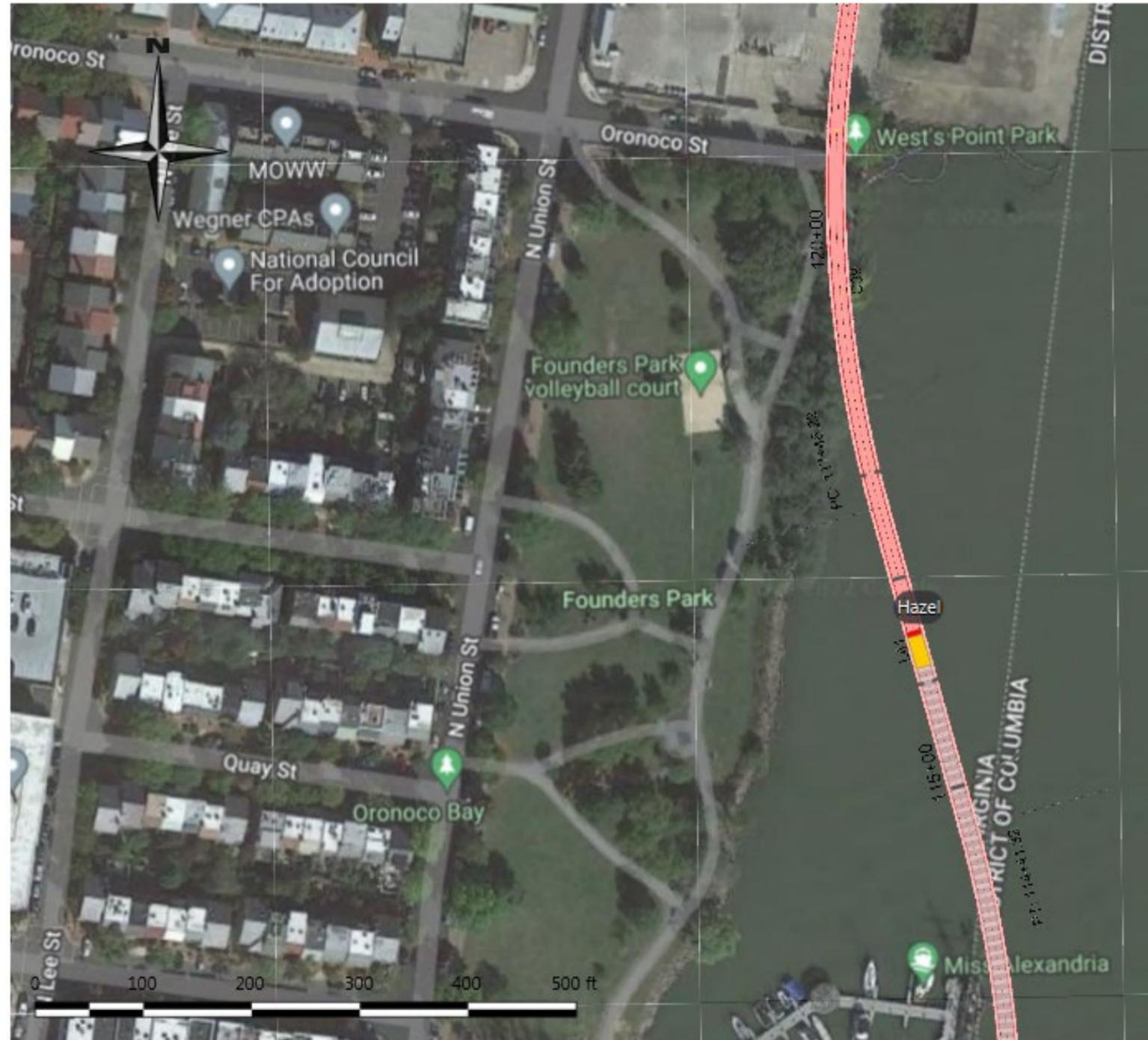
TBM Data Monitoring

Last Update
02-21-2024 00:49:41...

Guidance State



Tunnel Length (Ch...)	Station	Ring Advance	Net Stroke
10617.16 ft	11635.66 ft	2352	1348 mm



TPC Waleed Assaf
System Administrator
RE&I
4.4.0 b270

👁️ ⚙️ US ?

★ ☰

Reports

- Special Reports
- Quick Chart
- Shift Report
- Ring Summary
- Ring Installation
- Ring Package Report
- Daily Board Notification
- Daily Report
- Weekly Report
- Monthly Report
- Ring Condition
- Developed Tun...
- Trigger No-tification
- Tunnelband
- Correlation Diagram ...
- TBM Failure History
- Document Library

Real Time

- Visualization
- Historical Views
- GIS
- List View
- Surveying

118 / 151 Mb

Community Engagement

dc CLEAN RIVERS PROJECT
Division PRT-B
Potomac River Tunnel
12,722 Linear Feet
Mary
DCWATER.COM/CLEANRIVERS





Community Mitigations

Impacts	Mitigation
 Adjacent Properties	<ul style="list-style-type: none">■ Conduct preconstruction surveys of the project area before mobilization■ Provide advanced notifications to affected businesses and residents to facilitate adequate preparation for anticipated impacts■ Offer clear communication and pertinent information regarding construction activities to affected businesses.
 Special Events	<ul style="list-style-type: none">■ Coordinate work with city event organizers to ensure safety.
 Traffic	<ul style="list-style-type: none">■ Ensure that crews are setting up the traffic control as approved by DDOT/NPS■ Coordinate with DDOT/NPS on traffic advisory and detour notification■ Trucks will follow dedicated DDOT-approved haul routes■ Provide signage and barriers to safely direct motorists around work zones■ Provide safe access to businesses and residences■ Follow DDOT/NPS approved working and hauling hours■ Issue traffic advisories, including for lane closures
 Work Hours	<ul style="list-style-type: none">■ Weekdays from 7:00 am to 7:00 pm■ Weekend/Night Work may occur during certain phases

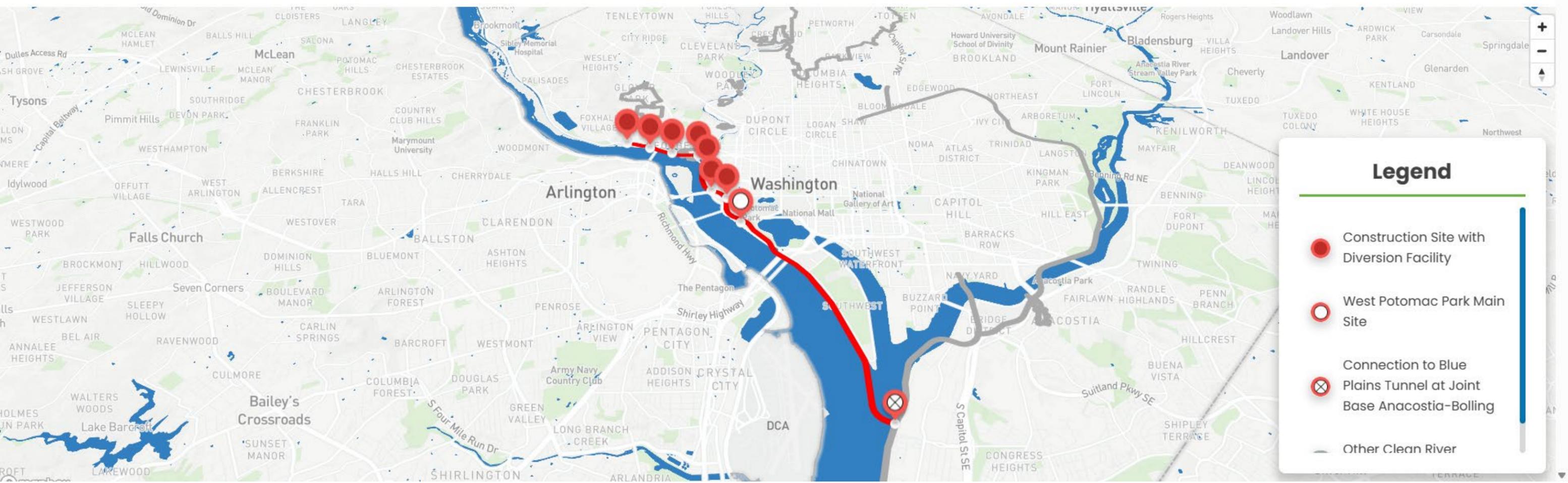


Community Mitigations

Impacts	Mitigation
 Sidewalk/ Trail Closure	<ul style="list-style-type: none">▪ Segregate trails from construction to provide safe path▪ Proactively notify the community of trail and sidewalk closures and duration▪ Provide safe paths for pedestrians and bicyclists▪ Ensure informative signage is posted. Work with NPS to determine any special needs areas
 Noise & Vibration Monitoring	<ul style="list-style-type: none">▪ Noise and vibration levels are monitored to meet DC Municipal & Regulations (DCMR) noise regulations during construction▪ Implement noise and vibration mitigation measures as needed
 Site Maintenance	<ul style="list-style-type: none">▪ Implement site security measures▪ Placement of dust and rodent control measures▪ Install tree protections
 Lighting	<ul style="list-style-type: none">▪ Construction lighting shielded and directed away from residents
 Community Engagement	<ul style="list-style-type: none">▪ 24/7 Project Hotline▪ Project Email and Webpage▪ Project Outreach Team



DC Water's Potomac River Tunnel Project



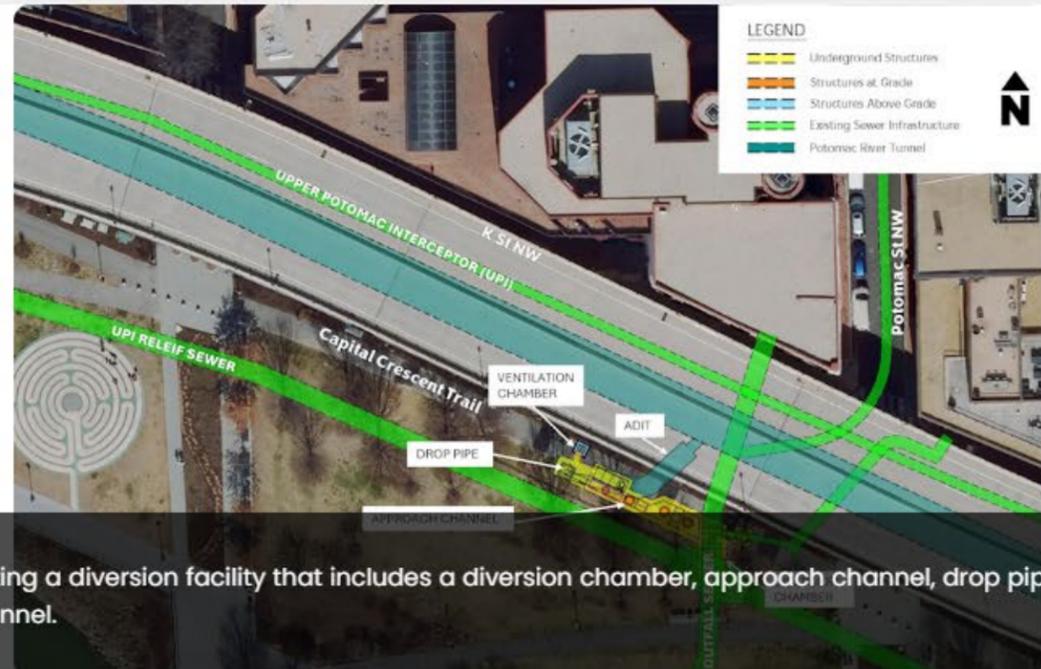


DC Water's Potomac River Tunnel Project

Georgetown Waterfront Park (CSO 027)

The CSO 027 site is in Georgetown Waterfront Park near the intersection of K Street NW and Potomac Street NW. DC Water is constructing a diversion facility that includes a diversion chamber, approach channel, drop pipe, and other structures to direct flow to the tunnel.

[Site at Completion](#) [Traffic Pattern](#) [Site Photos](#) [Documents](#)



DC Water is constructing a diversion facility that includes a diversion chamber, approach channel, drop pipe, and other structures to direct flow to the tunnel.

[Previous Site](#)

[Next Site](#)



Sign Up for Email Updates

Stay informed about progress on the Potomac River Tunnel.

To receive project updates directly from DC Water, email

dcpotomacrivertunnel@dcwater.com

and ask to join our email list.



DC Clean Rivers - Potomac River Tunnel Project

Water Street Northwest at Georgetown Waterfront Park:
Travel Lane and Sidewalk Closures



Greetings, Neighbors.

Beginning on or about November 17, 2025, DC Water will begin preparing for construction on the Potomac River Tunnel at the 3300 block of Water Street NW, beneath the Whitehurst Freeway.

Mobilization will take three to four months, weather permitting. During this time, crews will install fencing, signage, and erosion controls; clear and grade the site; and build the entrance. To keep everyone safe, there will be lane and sidewalk closures, parking restrictions, and a bike lane shift on Water Street. A temporary bike and pedestrian path will be installed in Georgetown Waterfront Park to help visitors navigate around the work zone.

During mobilization, some trees within the site must be removed to prepare for construction. DC Water and the National Park Service (NPS) have worked together to identify measures to protect trees that will remain. A tree restoration plan, approved by NPS, is in place. Replacement trees will be planted during the site restoration phase at the end of the project.

Water Street will remain open during construction, but you may notice changes to sidewalks and traffic patterns. Please follow posted signs and detours and consider alternative routes to avoid delays.

Georgetown Waterfront Park and the Capital Crescent Trail will be restored upon completion of construction.



Map: A portion of the Capital Crescent Trail and protected bike path between 33rd and Potomac streets will be closed. Bicyclist and pedestrians will be detoured around the work zone.

What to Expect During Mobilization

Date: November 17, 2025 – Mid-February 2026 (weather permitting).

Work Hours: Monday–Friday from 7 a.m. – 7 p.m.

Location: Water Street NW between 34th Street and Cecil Place

Traffic and Trail Changes:

- The bike lane on Water Street will shift north around the work zone.
- Parking will be restricted on Water Street between 34th Street and Cecil Place.
- The Capital Crescent Trail adjacent to the work zone will be closed.
- Pedestrians will be detoured to paths in Georgetown Waterfront Park.

Flaggers and signs will help guide you safely through the area. A temporary bike and pedestrian path will be built in the park to keep everyone moving.

Project Details

DC Water is building the Potomac River Tunnel to help reduce pollution in the Potomac River and Chesapeake Bay. The tunnel is designed to capture combined sewer overflows—stormwater mixed with sewage—and send them to the Blue Plains Advanced Wastewater Treatment Plant.

The tunnel is expected to be operational by 2030, and once complete, will reduce overflow events from about 74 to only 4 during an average year of rain and decrease the volume by 93%.

This work is part of a long-term commitment to cleaner waterways and ensures compliance with a Federal Consent Decree, as amended in 2016, with the District of Columbia, US Environmental Protection Agency, and the US Department of Justice.

Learn more at dcwater.com/prt.

Contact Us

Project Email: dcpotomacrivertunnel@dcwater.com

Project Hotline: 202-972-1388

DC Water 24-hour Emergency: 202-612-3400



Contact Information for Public

Contact Information

Project Email: dcpotomacrivertunnel@dcwater.com

Project Website: www.dewater.com/prt

Dedicated Project Hotline: 202-972-1388

Questions?



Complete our Tunnel Forum Survey