

POTOMAC RIVER



# Briefing on the Potomac Interceptor

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY



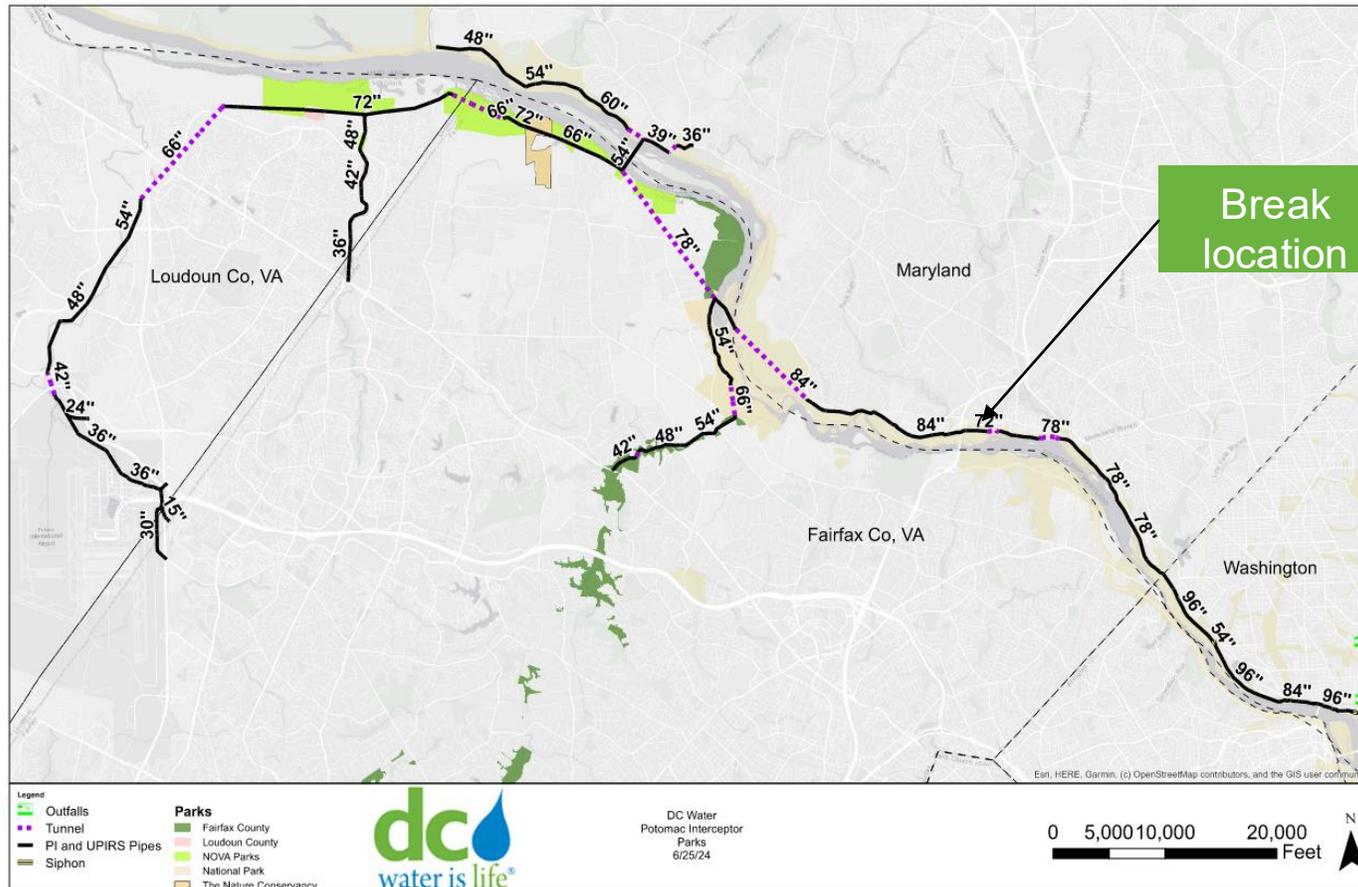
# Potomac Interceptor



- 86th U.S. Congress authorized Public Law 86-515 for the funding of the construction of the Potomac Interceptor (PI) on June 12, 1960, to serve Dulles Airport and safeguard the Potomac River
- Serves 376 square miles (511,000 people)
- Serves Fairfax & Loudoun Counties, Town of Vienna, Herndon, Dulles Airport in VA, and Montgomery County, MD



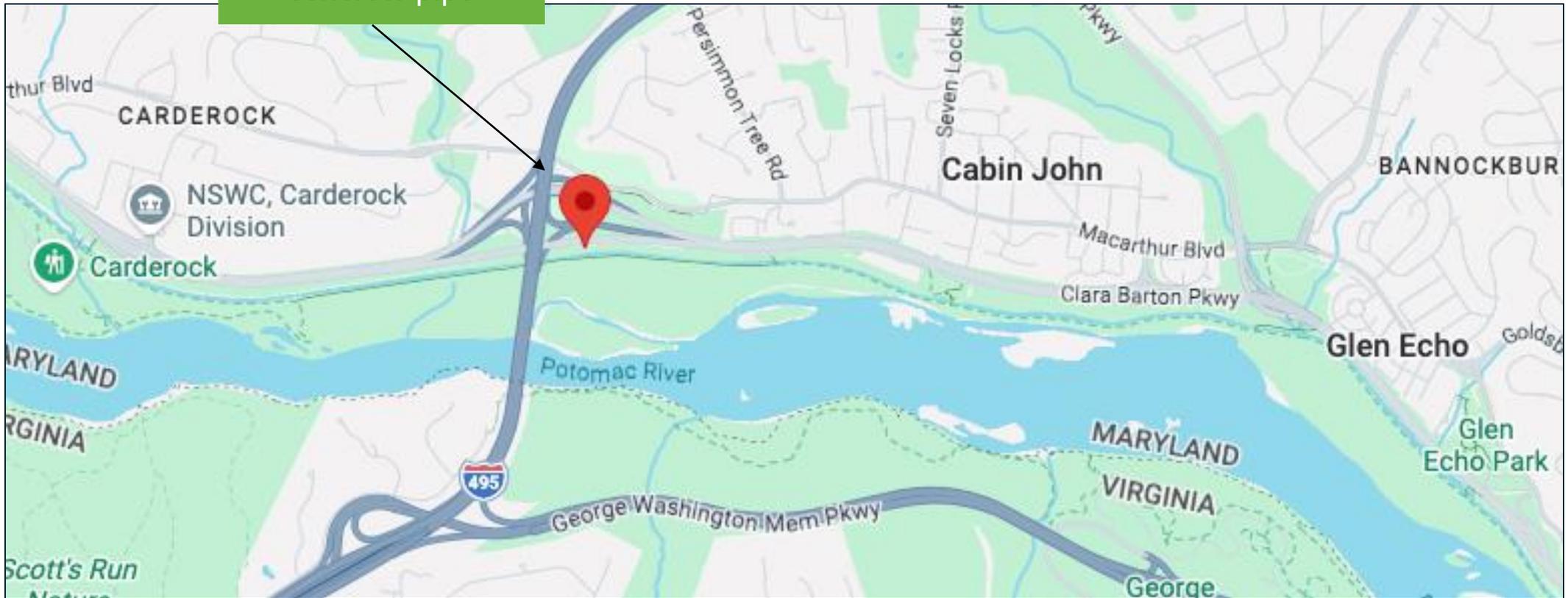
# Potomac Interceptor



- About 54 miles long
- 30" to 96" diameter
- Conveys 60 million gallons per day sanitary sewage (average)
- Constructed in early 1960's
- Flows treated at Blue Plains Advanced Wastewater Treatment Plant

# Pipe Break

Pipe break: 72"  
diameter reinforced  
concrete pipe

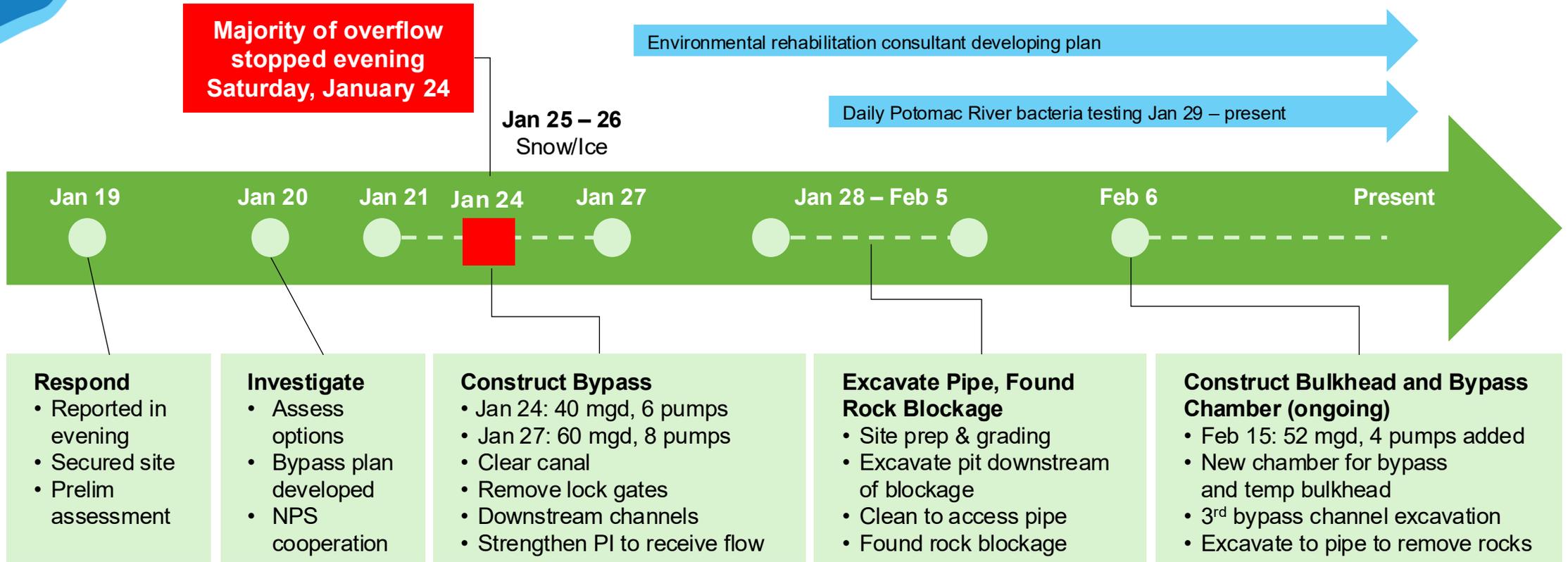


# Response and Repair

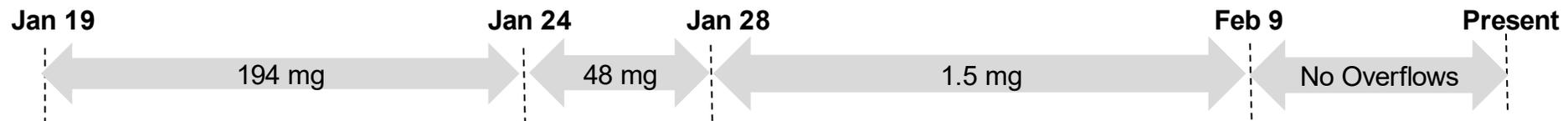
CURRENT

STEP	ACTIVITY	TIMELINE
1	<b>Bypass Installation</b> - Install temporary bypass pumping to reroute flow through canal around damaged pipe section	Completed
2	<b>Investigation and Excavation</b> - Excavate downstream of pipe, clean and identify scope of blockage	Completed
3	<b>Repair and Flow Restoration</b> – Install bulkhead and bypass chamber; remove rock dam and repair collapsed section to restore flow	February to mid-March
4	<b>Environmental Rehabilitation</b> – Restore affected areas including drainage channel, C&O Canal and Potomac River shoreline to Swainson Island	Following repair

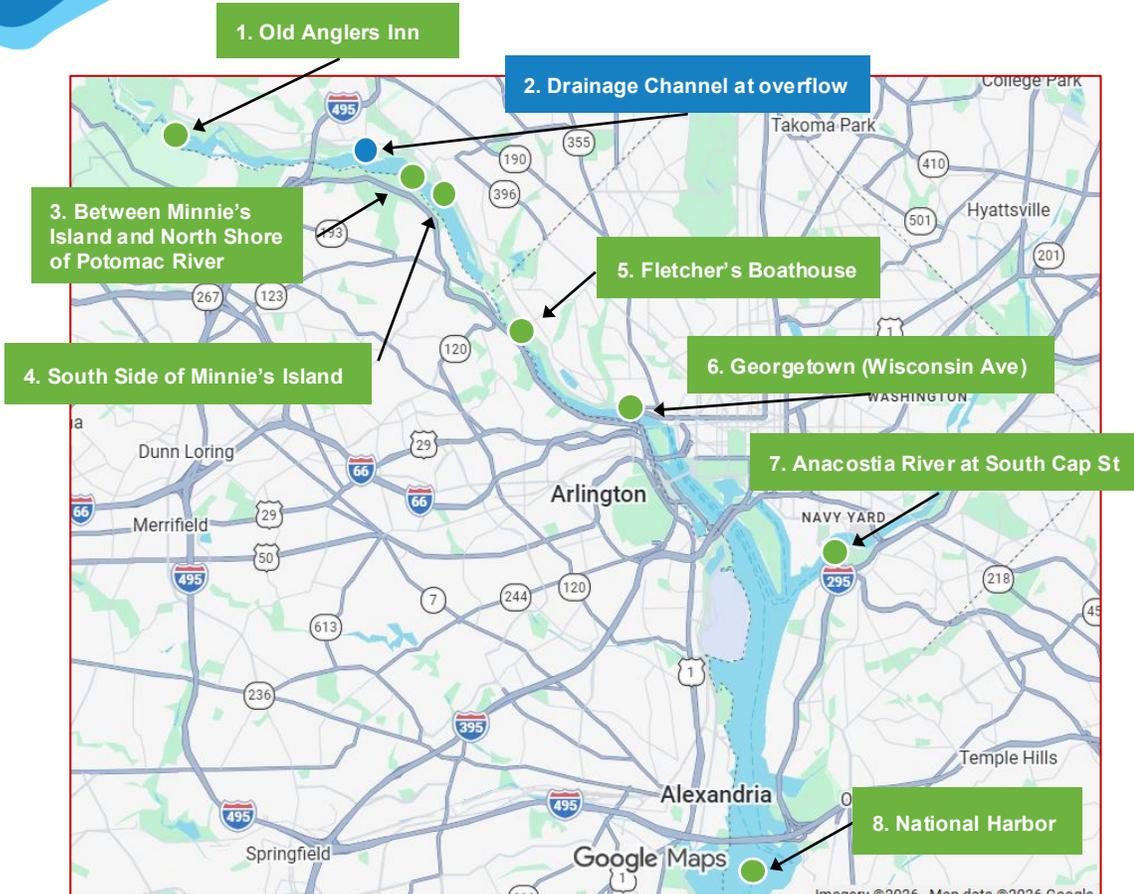
# Timeline



Estimated overflow volume to surface waters:



# Potomac River Bacteria Sampling

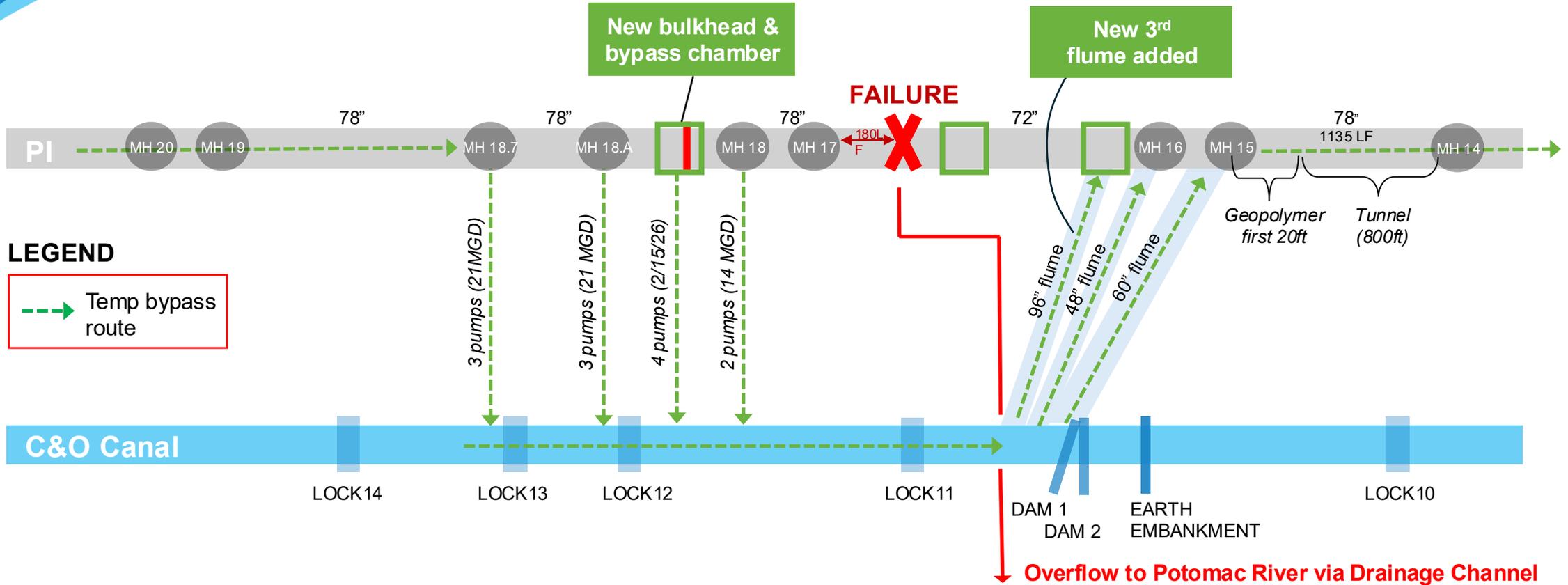


Sample Date	E. Coli (MPN/100 ml)							
	Old Anglers Inn	Near Drainage Channel @ Overflow (Swainson Island)	Between Minnie's Island and north shore of Potomac River	South Side of Minnie's Island	Fletcher's Boathouse	Georgetown @ Wisconsin Ave	Anacostia @ S. Cap St	National Harbor
1/29/2026	11	570,000	Not sampled	Not sampled	14,300	18,600	2	<1
1/30/2026	4	60,000	Not sampled	Not sampled	3,000	2,700	11	3
1/31/2026	3	30,000	Not sampled	Not sampled	1,200	5,100	6	2
2/1/2026	27	80,000	Not sampled	Not sampled	488	300	21	4
2/2/2026	6	242,000	Not sampled	Not sampled	397	173	6	31
2/3/2026	4	460,000	Not sampled	Not sampled	68	53	30	15
2/4/2026	5	210,000	Not sampled	Not sampled	49	48	45	178
2/5/2026	1	77,000	Not sampled	Not sampled	38	84	16	33
2/6/2026	22	242,000	Not sampled	Not sampled	108	238	24	10
2/7/2026	15	86,600	Not sampled	Not sampled	79	114	24	16
2/8/2026	15	130,000	Not sampled	Not sampled	260	43	47	27
2/9/2026	16	730,000	Not sampled	Not sampled	20	20	5	<1
2/10/2026	7	600,000	Not sampled	Not sampled	17	20	2	2
2/11/2026	8	155,000	Not sampled	Not sampled	3	19	<1	6
2/12/2026	5	105,000	Not sampled	Not sampled	7	75	8	14
2/13/2026	7	155,000	Not sampled	Not sampled	33	548	23	8
2/14/2026	3	141,000	Not sampled	Not sampled	<100	153	17	2
2/15/2026	2	199,000	Not sampled	Not sampled	58	84	18	3
2/16/2026	76	173,000	Not sampled	Not sampled	111	238	1,550	138
2/17/2026	59	16,700	Not sampled	Not sampled	3	387	23	88
2/18/2026	43	5,000	3,300	1,600	105	162	40	121
2/19/2026	49	15,200	17,800	14,800	387	435	128	62
2/20/2026	53	7,600	1,550	770	365	4,400	172	326
2/21/2026	135	1,700	727	1,200	107	190	205	345
2/22/2026	285	1,000	261	238	365	517	1,050	238
2/23/2026	204	1,100	299	299	461	613	687	304

Note: MPN = most probable number

\*Consistent with public health and U.S. Environmental Protection Agency standards, swimming is not recommended when E. coli levels exceed 410 MPN/100 mL.

# Emergency Response



Potomac River

POTOMAC RIVER

BRIEFING ON THE POTOMAC INTERCEPTOR

# Initial Overflow



MH Upstream of Collapse



Overflow in Drainage Channel

POTOMAC RIVER

BRIEFING ON THE POTOMAC INTERCEPTOR

# Emergency Response



Setting Up Bypass Pumps



Coffer Dam in Canal



Channel Back to PI

POTOMAC RIVER

BRIEFING ON THE POTOMAC INTERCEPTOR

# Bypass in Operation



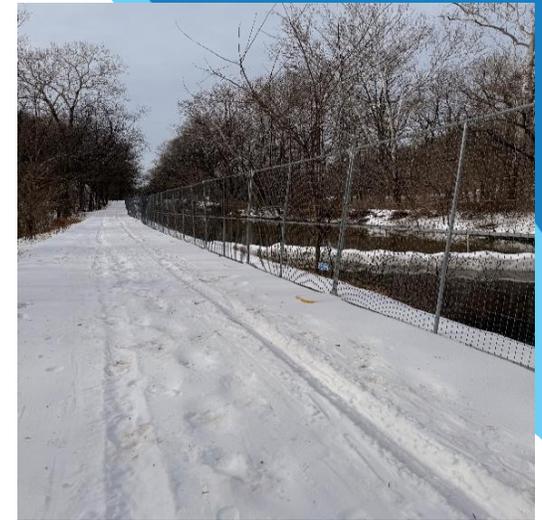
Bypass Pumping



Flow in Discharge Channel



Flow Dropping Back in PI



Fencing Along Canal

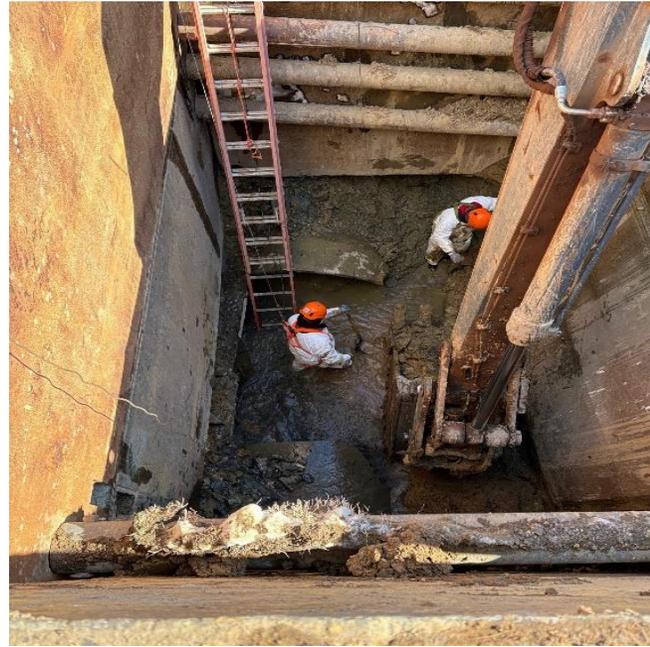
POTOMAC RIVER

BRIEFING ON THE POTOMAC INTERCEPTOR

# Excavating to Pipe



Failure Site



Excavation to PI



Rock Block in Failed Pipe Section

POTOMAC RIVER

BRIEFING ON THE POTOMAC INTERCEPTOR

# New Chamber and Discharge Channel Under Construction



Bypass Pumping Chamber Under Construction and Made Operational



# Planned Capital Improvement Program for the Potomac Interceptor

## NEAR TERM PROJECTS

PROJECT	REHABILITATION	APPROX. COST	CONSTRUCTION
PI-01A	2,700 LF (Slipline and Geopolymer)	\$30M	Spring – Fall 2026
PI-01 Rock Run (Lock 10 / Cabin John)	7,300 LF (Geopolymer)	\$95M - \$135M	Spring 2027 – Fall 2029
PI-02 Broad Run / FFX	3,300 LF (Geopolymer) 2,700 LF (CIPP)	\$6M - \$9M	Spring 2027 – Summer 2028
PI-03 Cabin John / MH 4252	16,000 LF (Geopolymer)	\$150M - \$210M	Summer 2028 – Winter 2030

\$350M OVER NEXT 5 YEARS, MORE THAN  
 \$600M OVER 10 YEARS

# Potomac River Break

- Potomac River watershed includes 14,670 square miles through Virginia, Maryland, West Virginia, Pennsylvania, and District
- During the overflow incident, approximately 2% of the total river flow was impacted.
- With time and increasing river flows, bacteria levels are decreasing at and near the overflow site.
- No overflows since February 9
- DC Water committed to cleaning/restoring impacted areas



# Environmental Rehabilitation



- DC Water committed to cleaning/restoring impacted areas
- Working with National Park Service, Maryland Department of the Environment (MDE) and other agencies to determine means, methods and scope
- Environmental consultant retained, has performed site walks to assess conditions and drafted an Environmental Rehabilitation Plan
- Impacted areas:
  - C&O Canal
  - Drainage channel along Clara Barton Parkway to Potomac River
  - Potomac River from shore to Swainson Island
- Targeting cleanup as soon as possible after emergency ends to minimize impacts to high-use areas before weather turns warm

# Rehabilitation Plan

## Initial Coordination

- Install clear water diversions
- Pump water in Clara Barton channel to PI.
- Coordinate Concept Plan with USACE, NPS, MDE, and DOEE
- NPS Special Use Permit
- Identify Waste Subtitle D landfill
- Conduct pre-construction meetings
- Keep Canal's intake closed (NPS)
- Stake out Limits of Disturbance and access routes
- Identify and locate trees that will be removed

## Rehabilitation will be completed in 2 phases

### Uncontrolled Overflow Areas

- Phase I = Immediate
- Phase II = After PI flow is restored

### C&O Canal Rehabilitation

- Phase I = Removal of materials, initial repairs
- Phase II = Final rehabilitation and repairs

POTOMAC RIVER

BRIEFING ON THE POTOMAC INTERCEPTOR

# Next Steps



- Repair and Flow Rehabilitation
- Environmental Rehabilitation
- Continued Rehabilitation

