District of Columbia Water and Sewer Authority

Board of Directors

Environmental Quality and Operations Committee December 18, 2025 / 9:30am

Microsoft Teams meeting
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Meeting ID: 264 402 197 034 Passcode: 2po95tH2

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Phone Conference ID: 466 414 837#

1. **Call to Order** _____ Sarah Motsch, Chairperson
2. **Roll Call** _____ Michelle Rhodd, Board Secretary
3. **November 2025 Blue Plains Wastewater Treatment Plant Performance** _____ Nicholas Passarelli
4. **AMI Performance Assessment and Optimization Program** _____ Chris Collier
5. **Action Items** _____ John Pappajohn
   Moussa Wone

   Joint Use
   a) **Contract No. 10528 – Audio-Visual Equipment Upgrade and Support – Bridges System Integration**
   b) **Contract No. 10572 – Furnish and Install HVAC Equipment – Complete Building Services**
   c) **Contract No. 200110 – Public Space Restoration Contract FY22-FY25 – Capitol Paving of DC, Inc.**

   Non-Joint Use
   a) **Contract No. 10517 – Valve and Hydrant Assessment Services – Hydromax**
   b) **Contract No. 250170 – Water Pumping and Storage Facilities – PCL Civil Constructors, Inc.**
6. **Executive Session*** _____ Sarah Motsch
7. **Adjournment** _____ Sarah Motsch

This meeting is governed by the Open Meetings Act. Please address any questions or complaints arising under this meeting to the Office of Open Government at opengovoffice@dc.gov.

1The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss certain matters, including but not limited to: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); terms for negotiating a contract, including an employment contract, under D.C. Official Code § 2-575(b)(2); obtain legal advice and preserve attorney-client privilege or settlement terms under D.C. Official Code § 2-575(b)(4)(A); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security matters under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10); third-party proprietary matters under D.C. Official Code § 2-575(b)(11); train and develop Board members and staff under D.C. Official Codes § 2- 575(b)(12); adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters or violations of laws or regulations where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14); and other matters provided under the Act.

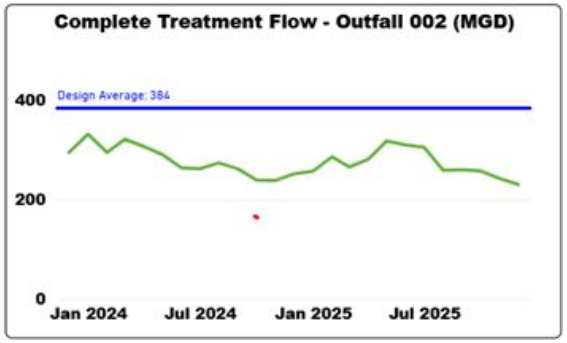
Blue Plains Wastewater Treatment Performance

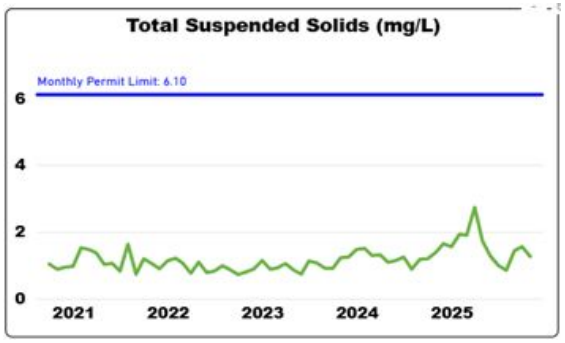
Nicholas Passarelli

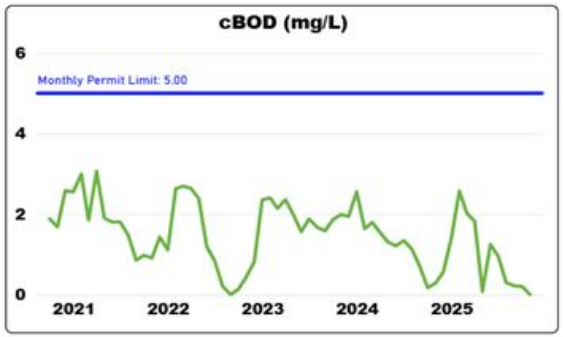
Vice President | Wastewater Treatment Operations

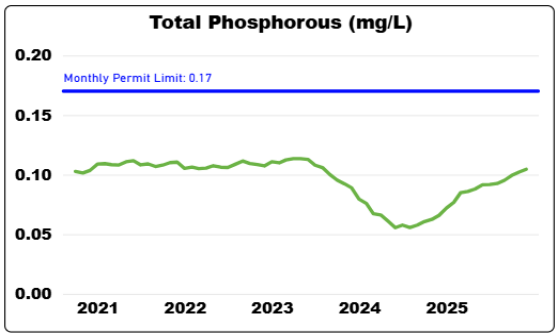
Blue Plains Operational Performance, Flow and Permit Summery

Monthly Average Flow and Permit Parameter Trends









All weekly and monthly NPDES permit requirements were met

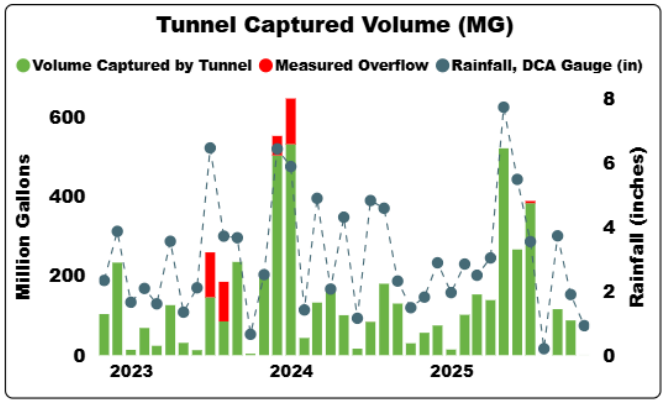
Average Outfall 002 flow for Nov 2025: 230 MGD

Peak Day flow: Nov 8th at 261 MGD

Blue Plains Operational Performance, Tunnel, Power & Biosolids Summary

Tunnel Systems and Wet Weather – Nov 2025

- 0.2 MG Captured in Tunnel with 0 overflows
- 0.9 inches of rain



Electrical Energy Use and Generation – Nov 2025

- 24% of electricity was generated onsite
- Combined Heat and Power (CHP) facility produced an average of 7.39 megawatts (MW)
- Solar System produced an additional 0.34 MW of power on average
- Total electricity consumption at Blue Plains averaged 26.42 MW with average of 20.05 MW purchased from PEPCO
- Total Purchased Power Savings FY2025 (thru Sept2025): $3,430,120

Class A Biosolids – Nov 2025

- In Nov., Blue Drop sold approximately 3090 tons of Bloom; for a total of 8,398 tons towards the FY26 goal of 62,000 tons.
- Blue Plains Produced 11,329 tons of biosolids for the month with the remaining 8,239 tons managed through land application contracts.

Automated Metering Infrastructure (AMI) Performance Assessment and Optimization Program

Chris Collier

Vice President | Water Operations

Purpose & Agenda

PURPOSE

The purpose of this presentation is to discuss DC Water's Advanced Metering Infrastructure (AMI) and efforts to improve transmission rates

AGENDA

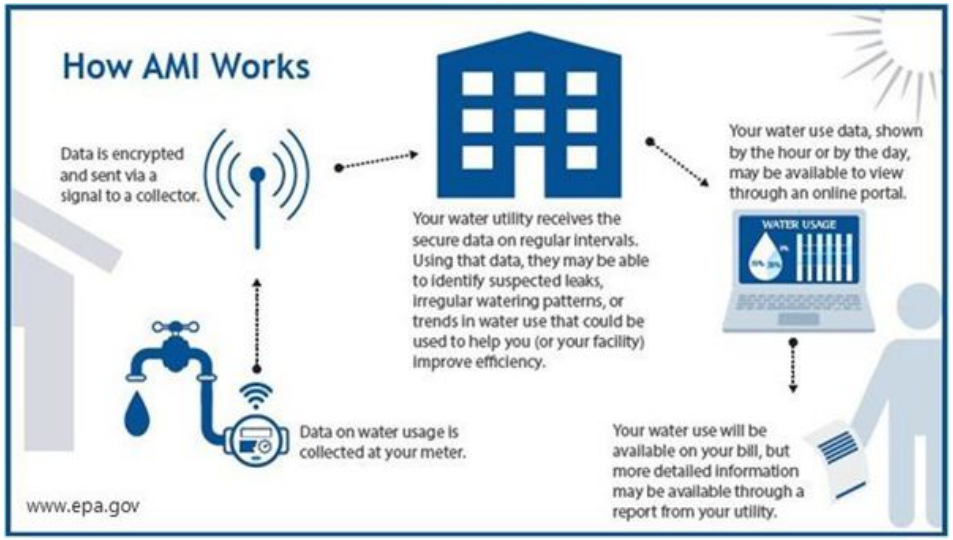
- What is smart metering (AMI)?
- History and current state of the AMI system
- Phase 1 assessment approach and findings
- Phase 1 solutions and results
- Phases 2 and 3 anticipated timeline

What is Smart Metering?

SMART METERING IS…

…an integrated system of equipment, communications, and information management tools for frequently, accurately and remotely collecting water meter reads.

…often referred to as AMI – Advanced Metering Infrastructure.



Low Use of Tech

High Use of Tech

MANUAL METER READING

Manual operations

- Visual reads are manually recorded
- High number of field visits

Typical issues

- High number field staff (cost & retention)
- Inaccurate reads; inaccurate billing
- High disputes; low customer info/service

AUTOMATED METER READING (AMR)

Smart meters deployed

- Drive-by reads are efficient & accurate
- Computer captured data
- Limited alerts/alarms/field visibility

Typical issues

- High field staff and vehicle miles
- Re-reads/field checks require field visit

ADVANCED METERING INFRASTRUCTURE (AMI)

Fully-smart infrastructure deployed

- 2-Way, Fixed Collectors (Radio/Cellular)
- Hourly Interval Data collected 3-4x/Day
- Customer engagement tools (portals), leak notifications, on-demand move-in/out
- Advanced sensors/devices for remote services
- Integration with Smart City initiatives

History & Current State of AMI System

- Original Advanced Metering Infrastructure (AMI) solution (133K endpoints) was installed in 2006
- Upgraded solution was installed in 2019
  - Access issues during upgrade prevented 4000 endpoints from being upgraded
  - Another 8000 endpoints are not communicating due to premature failures
  - System performance after the upgrade never exceeded 94.5%

- Current system performance is at 88%
- This has a negative impact on billing accuracy, operational efficiency, customer experience, and revenue capture
- The AMI Performance Assessment and Optimization Program is underway, intended to improve AMI functionality

Phase 1 Assessment Approach & Findings

Phase I Approach

- In-person workshops
- Team verification
- Field focus group

- Vendor meetings
- Field visits

- Job shadowing
- On-Site Warehouse Triage

Process Analysis Findings:

- Meter access issues
- Maintenance backlog
- Extended estimated meter reads can result in automatic hardware replacement work orders

System Performance Analysis Findings

- Past deployment/upgrade gaps
- Some existing devices have aged past useful life
- Some failed MTUs still under warranty

Operational Analysis Revealed:

- Replacing hardware without troubleshooting equipment
- No standard operating procedure for warranty returns

Impacts:

- **System performance below industry norm**
- **Backlog in system maintenance**
- **Increased equipment purchases**
- **Reliance on manual meter reading**
- **Ensuring bill accuracy and timeliness**

Phase 1 Solutions & Results

Solutions Implemented:

- New warranty/return process
- Equipment triage process
- Revised field-testing process
- Increased vendor focus on endpoint issues through weekly meetings

Solutions In Process:

- Revised billing, warehouse, and field processes and standard operating procedures
- Warehouse staffing plan to handle backlog
- Policies to address customer access issues
- AMI data clean-up

Planned Solution:

- Targeted cleanup project to eliminate system backlog & system performance issues

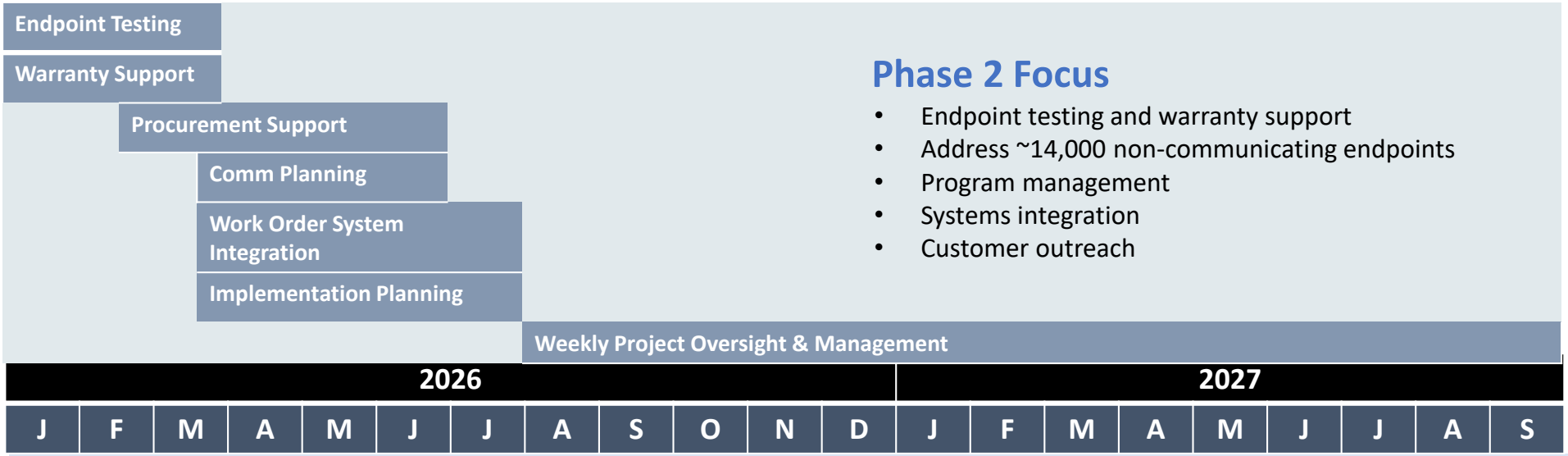
Results:

- Reduced equipment backlog
- Applied warranty credits
- Reduced work order backlog
- Improved system maintenance
- Captured AMI contract value

- Reduced manual meter reading
- Streamlined/accurate billing
- Prioritized field response
- Increased customer confidence
- Managed meter maintenance

- Fully-realized AMI benefits
- Efficient, proactive field operations
- Efficient, accurate billing
- Consistent system performance
- Heightened staff morale & retention

Phases 2 and 3 Anticipated Timeline



Phase 2 Focus

- Endpoint testing and warranty support
- Address ~14,000 non-communicating endpoints
- Program management
- Systems integration
- Customer outreach

Phase 3 Focus

Leverage data from the AMI system to:

- Improve field efficiency
- Improve bill accuracy
- Improve customer response

* Schedule is approximate

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT AWARD

AUDIO-VISUAL EQUIPMENT UPGRADE AND SUPPORT

(Joint use Indirect)

This contract action is to approve additional funds in the amount of $600,000.00 for the upgrade of audio-visual equipment at the headquarters office.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Bridges System Integration 516 Herndon Parkway Herndon VA 20170		LSBE 100%

DESCRIPTION AND PURPOSE

Base Year Value:	$570,267.99
Base Year Date:	07-01-2025 – 06-30-2026
Base Year Additional Value:	**$600,000.00**
Base Year Date:	**07-01-2025 – 06-30-2026**

Purpose of the Contract:

This contract is to provide a comprehensive, turnkey solution to upgrade the audio-visual (AV) systems in DC Water's headquarters (HQO) boardroom and other HQO key areas utilized for meetings, conferences, and events, including the 1st floor patio and lobby, the 2nd floor lobby and the rooftop.

Contract Scope:

To provide a comprehensive AV solution that meets DC Water's current HQO needs and provides a pathway for future technological enhancements while enhancing the user experience for various meetings and events. The work includes design, procurement, installation, testing, troubleshooting, and support of state-of-the-art AV equipment in all five spaces used for events and public meetings.

Additional funds are necessary to implement phase 2 of the AV upgrade project which includes the 1st floor patio and lobby, the 2nd floor lobby and the rooftop.

Solicitation:

An RFP was issued on March 7, 2025, to identify potential suppliers, with responses due by May 5, 2025. Four responses were received, with two bidders certified LBE/LSBE.

Subsequent to technical and pricing evaluation, DC Water downselected to three vendors, and after further review and negotiations, awarded to Bridges System Integratron.

Due to AV equipment failures and a safety incident in the boardroom on Friday, July 18, 2025, an urgent need to replace the AV equipment was created.

The RFP award was divided into two phases: phase 1 and phase 2. Phase 1 focused on updating the AV equipment in the boardroom while phase 2 included the other spaces. Phase 1 was awarded in the amount of $570,267.99 to address the urgent need for boardroom AV equipment replacement.

Spending:

Cumulative Contract Value:	07-01-2025 to 06-30-2026: $570,267.99
Cumulative Contract Spending:	07-01-2025 to 11-30-2025: $456,214.39

Contractor's Past Performance:

According to the COTR, the Contractor's quality of products and services, timeliness of deliverables; conformance to DC Water's policies, procedures and contract terms; and invoicing, all meet expectations and requirements.

PROCUREMENT INFORMATION

Contract Type:	Goods and Services	**Award Based On:**	Highest Ratings
Commodity:	IT	**Contract Number:**	10528
Contractor Market:	Open Market with LBE/LSBE Goal		

BUDGET INFORMATION

Funding:	Capital	**Department:**	IT
Project Area:	DC Water HQO	**Department Head:**	Nelson Sims

ESTIMATED USER SHARE INFORMATION

User - Capital	Share %	Dollar Amount
District of Columbia	85.46%	$ 512,760.00
Washington Suburban Sanitary Commission	7.67%	$ 46,020.00
Fairfax County	2.69%	$ 16,140.00
Loudoun Water	1.77%	$ 10,620.00
Other (PI)	2.41%	$ 14,460.00
TOTAL ESTIMATED DOLLAR AMOUNT	**100.00%**	**$600,000.00**

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Nelson Sims
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12/10/2025

Nelson Sims
Chief Information Officer and
Executive Vice President (Acting)

Date

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Korey Gray
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12/10/2025

Korey Gray
VP Compliance and
Chief Procurement Officer

Date

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12/10/2025

Matthew T. Brown
CFO, COO(Acting), and EVP of
Finance, Procurement and Compliance

Date

David L. Gadis
CEO and General Manager

Date

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT NEW AWARD

FURNISH AND INSTALL HVAC EQUIPMENT

(Joint Use Direct)

Approval to exercise award and approve funding for two (2) base years for the furnishing and installation of HVAC equipment in the amount of $3,204,257.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	**SUBS:**	**PARTICIPATION:**
Complete Building Services, Inc. 5151 Wisconsin Avenue, Ste 400 Washington, DC. 20016	N/A	DBE - 100%

DESCRIPTION AND PURPOSE

Base Years (2) Contract Value:	$3,204,257.00
Base Years Contract Dates:	02-01-2026—01-31-2028
No. of Option Years in Contract:	0
Total Option Years Value:	$0.00
Total Number of Proposals:	2
Proposal Price Range	$2,912,961.00 -$2,983,500.00

Purpose of the Contract:

This contract is for the furnishing and installation of 15 HVAC equipment systems located at the Blue Plains Wastewater Treatment facility and the Bryant Street Pumping Station.

Contract Scope:

Under this contract, the supplier shall furnish all labor, materials, tools, insurance, and equipment necessary to remove and replace with new equipment the specified existing HVAC equipment at two DC Water facilities. The period of performance for this contract will be two years.

Solicitation:

The solicitation was released by Procurement on September 3, 2025, and closed on September 30, 2025. Two suppliers, Complete Building Services, Inc., and Mo Construction, Inc., who can meet all the requirements responded to the RFP. The final award selection is based on the evaluation criteria of qualifications, experience, technical approach, and price. Complete Building Services had the highest technical score and offered the best price. A 10% contingency has been added to this contract for any unforeseen issues that may arise.

PROCUREMENT INFORMATION

Contract Type:	Goods and Services	**Award Based On:**	Highest Rating
Commodity:	Furnish & Install HVAC equipment	**Contract Number:**	10572
Contractor Market:	Open Market with goals for DBE 20% and WBE 10% Participation		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Facilities
Project Area:	Blue Plains	**Department Head:**	Brent Christ

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	41.22%	$947,570.27
Washington Suburban Sanitary Commission	45.84%	$1,053,775.37
Fairfax County	8.38%	$192,640.44
Loudoun Water	3.73%	$85,745.68
Potomac Interceptor	0.83%	$19,080.14
TOTAL ESTIMATED DOLLAR AMOUNT	**100.00%**	**$2,298,811.90**

BUDGET INFORMATION

Funding:	Capital	**Department:**	Facilities
Project Area:	Bryant Street	**Department Head:**	Brent Christ

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	100%	$905,445.10
Washington Suburban Sanitary Commission		
Fairfax County		
Loudoun Water		
Potomac Interceptor		
TOTAL ESTIMATED DOLLAR AMOUNT	**100.00%**	**$905,445.10**

Signed by:
John Lisle
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John Lisle — Date
VP Marketing and Communications

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Korey Gray
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12/10/2025
Korey Gray — Date
VP Compliance and Chief Procurement Officer

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Matthew Brown
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12/10/2025
Matthew T. Brown — Date
CFO, Interim Chief Operating Officer
and EVP of Finance and Procurement

David L. Gadis — Date
CEO and General Manager

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

CONSTRUCTION CONTRACT CHANGE ORDER:

Public Space Restoration Contract FY22- FY25
(Joint Use)

Approval to execute Change Order No. 002 for $7,689,450.00 to complete contract term. The modification exceeds the Chief Executive Officer's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	PARTICIPATION:
Capitol Paving of DC, Inc 2211 Channing St NE Washington, DC 20018	DBE – 30%* WBE – 10%*

*See Attachment A for list of certified firm participation (See Attachment A).

DESCRIPTION AND PURPOSE

Original Contract Value:	$21,880,658.00
Value of Change Order 1 for Two Option Years	$21,061,000.00
Value of this Change Order:	$ 7,689,450.00**
Cumulative CO Amount, excluding Two Option Years:	$ 7,689,450.00
Total Contract Value, including this CO:	$50,631,108.00
Original Contract Time + Two Option Years:	1826 Calendar Days (5 Years, 0 Months)
Time extension, this CO:	0 Calendar Day
Total CO contract time extension:	0 Calendar Day
Contract Start Date (NTP):	01-05-2022
Contract Completion Date:	01-04-2027
Cumulative CO % of Original Contract:	17.91%
Contract completion %:	79%

**This additional funding is required to complete the contract period through January 4, 2027.

Purpose of the Contract:

- DC Water is required to permanently restore all paved and non-paved public space areas - roadways, sidewalks, tree spaces, and other structures that are damaged or disturbed during infrastructure rehabilitation and repair activities. The Public Space Restoration Contract provides permanent restoration and pavement services for Water and Sewer construction locations in public space.

Original Contract Scope:

- Restore and/or replace asphalt and concrete roadways, brick and concrete sidewalks, landscaped areas, and other miscellaneous repairs that result from excavations performed during water and sewer infrastructure rehabilitation and repair activities in public space.
- Scope of work is developed and issued as task orders and as needed. Restoration work is at various locations throughout Washington, DC. The nature, extent, and location of the work for each task order varies.
- The water and sewer operations, on an annual basis, typically generate an average of 1,700 task orders for public space restorations.

Previous Change Order Scope:

- Change Order 1 was executed to exercise the two option years in the contract, with a total value of $21,061,000.00. This action extended the contract term through January 4, 2027, retaining the bid prices that were previously negotiated under the original agreement.

Current Change Order Scope:

- This Change Order No. 2 is necessitated due to increases in the number of water and sewer emergency repairs as well as system rehabilitation projects. Also, the magnitude and complexities of these system rehabilitation projects have increased, which subsequently expanded the public space impacts and disturbance limits. These situations significantly contributed to increases in restoration costs and contract burn rates.
- This change order increases the contract limit by $7,689,450.00 and allocates additional funds to support contract completion through January 4, 2027.
- A new solicitation for Public Space Restoration Contract is planned for advertisement in FY 2026 to evaluate and select contractors through competitive bidding.

PROCURMENT INFORMATION

Contract Type:	Unit Price	**Award Based On:**	Request for Proposal, Best Value
Commodity:	Construction	**Contract Number:**	200110
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Water Operations
Service Area:	Water, Sanitary	**Department Head:**	Chris M. Collier
Project:	KZ, BW		

*****ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	$ 7,689,450.00
Federal Funds	0.00%	$
Washington Suburban Sanitary Commission	0.00%	$
Fairfax County	0.00%	$
Loudoun County & Potomac Interceptor	0.00%	$
Total Estimated Dollar Amount	**100.00%**	**$ 7,689,450.00**

*** Work under this contract will be assigned as needed under specific task orders. It is anticipated that Joint Use work may be assigned during the contract period. As tasks are developed for work associated with specific facilities and costs are developed, the individual users will be notified and billed according to agreed cost sharing.

Signed by: Moussa Wone B41797CAE4B8407... / 12/8/2025
Moussa Wone Date
Chief Engineer and Vice President

DocuSigned by: Matthew T. Brown 262C5D96CC1C4D3... / 12/9/2025
Matthew T. Brown Date
Chief Financial Officer and Interim Chief Operating Officer

DocuSigned by: Korey Gray 40BDAE0B31F6429... / 12/8/2025
Korey R. Gray Date
Vice President of Compliance and Chief Procurement Officer

_____ / _____
David L. Gadis Date
Chief Executive Officer and General Manager

ATTACHMENT A

CONSTRUCTION CONTRACT CHANGE ORDER:
PUBLIC SPACE RESTORATION CONTRACT FY22- FY25
LIST OF CERTIFIED FIRM SUBCONTRACTORS

FIRM	CERTIFICATION	PARTICIPATION
Omni Excavators Washington, D.C.	DBE	10.00%
Other identified Scopes are being negotiated.	DBE	20.0%
Subtotal DBE		30.0%
Royal Construction Materials Mc Lean, VA	WBE	10.0%
Subtotal WBE		10.0%

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT NEW AWARD

VALVE AND HYDRANT ASSESSMENT SERVICES

(Non-Joint Use Direct)

Approval to exercise award and approve funding of $7,941,968.24 for a three-year base period and two option years for the assessment of 9,600 hydrants and 46,000 valves.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Hydromax USA 3700 River Walk Drive Suite 145 Flower Mound, TX 75028	Traffic Services and Control Ashland, VA EBA Engineering Laurel, MD LVL-Up Strategies	DBE -10% WBE- 5%

DESCRIPTION AND PURPOSE

3-Base Year Value:	$4,524,439.50
3-Base Year Dates:	02-01-2026- 01-31-2029
Number of Option Years:	2
Option Year 1- 2 Value:	$3,417,528.74
Option Year 1- 2 Dates:	02-01-2029 - 01-31-2031
Total Number of Proposals:	2
Proposal Price Range:	$3,602,996.80 - $6,264,286.18

Purpose of the Contract:

To conduct comprehensive assessments of 9,600 fire hydrants and 46,000 system valves over a five-year period to support system reliability, maintenance planning, and operational efficiency.

Contract Scope:

Under this contract the supplier shall furnish all labor, services, materials, tools, insurance and equipment to assess, all 9,600 fire hydrants and 46,000 valves in DC Water's system. Of the total contract funding:

- $3,892,378.84 is allocated for guaranteed hydrant and valve assessment work.
- $4,049,590.15 is allocated for optional hydrant and valve repair work, to be performed at DC Water's discretion and subject to the availability of internal operational resources.

Solicitation:

An RFP was issued on October 23, 2025 and closed on November 14, 2025 with compliance goals of 10% DBE and 5% WBE. Two suppliers responded to the RFP, Hydromax and M.E. Simpson. The final selection was based on the technical evaluation criteria and pricing. Hydromax was selected due to their strong technical approach, competitive pricing, and extensive experience delivering similar assessment and services programs.

PROCUREMENT INFORMATION

Contract Type:	Good and Services	**Award Based On:**	Highest Rating
Commodity:	Valve and Hydrant Services	**Contract Number:**	10517
Contractor Market:	Open Market with Goals for 10% DBE and 5% WBE Participation		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Water Operations
Project Area:	Washington D.C.	**Department Head:**	Chris Collier

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	100%	$7,941,968.24
Washington Suburban Sanitary Commission	0%	$0.00
Fairfax County	0%	$0.00
Loudoun Water	0%	$0.00
Potomac Interceptor	0%	$0.00
TOTAL ESTIMATED DOLLAR AMOUNT	**100.00%**	**$7,941,968.24**

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Korey Gray
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Korey Gray Date
VP Compliance and Chief Procurement Officer

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Matthew Brown
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12/11/2025

Matthew T. Brown Date
CFO, Interim Chief Operating Officer
and EVP of Finance and Procurement

David L. Gadis Date
CEO and General Manager

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

PROGRESSIVE DESIGN-BUILD CONTRACT:

Water Pumping and Storage Facilities
(Non-Joint Use)

Approval to execute Phase One of a Progressive Design-Build contract not to exceed $18,400,000.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:		PARTICIPATION:
PCL Civil Constructors, Inc 800 E Indian River Rd, Norfolk VA 23523 Headquarters: Denver, CO 80222	C.C.Johnson & Malhotra, P.C. Rockville, MD	DBE	4.5%
	Sigma Associates, Inc Bingham Farms, MI	DBE	2.0%
	Delon Hampton & Associates Washington, DC	DBE	1.0%
	Interagency Washington, DC	DBE	0.5%
	SZ PM Consultants, Inc. Washington, DC	WBE	1.0%
	River to Tap, Inc.(R2T) Philadelphia, PA	WBE	0.5%
	Rossi Group Hunt Valley, MD	WBE	0.5%

DBE Participation = 8.0% WBE Participation = 2.0%

DESCRIPTION AND PURPOSE

Phase One - Contract Value, Not-To-Exceed:	$18,400,000.00	
Phase One - Contract Time:	663 Days	(1 Years, 10 Months)
Anticipated Contract Start Date:	01-05-2026	
Anticipated Contract Completion Date:	10-29-2027	

Other firms submitting proposals/qualification statements:

American Contracting & Environmental*

* Asterisk indicates short listed firms.

Purpose of the Contract:

Phase one of this contract will provide program management, engineering design, and pre-construction management services required for the planning and execution of the progressive design build portfolio of seven water pumping stations and storage facilities projects:

- Anacostia Pump Station Major Upgrades
- Phase I Fort Stanton Reservoir #2 Replacement
- Phase 2 Fort Stanton Reservoir #1 Replacement
- Bryant Street Pump Station Improvements
- Anacostia 3rd High Pressure Zone Improvement
- Anacostia Tank 1 Upgrades
- Anacostia Tank 2 Upgrades

Phase One - Contract Scope:

This work is for Phase I Preconstruction services, and it will progress to Phase 2 Guaranteed Maximum Price (GMP) development through 60% detailed design, work package phasing strategy, detailed cost modeling, and early work package recommendations. Phase 2 Construction services will be developed once we have a GMP. The scope of work includes:

- Develop Preliminary Design including verification of existing infrastructure conditions, capacity, and performance
  - Scope Validation
  - Site Investigation
  - Preliminary Engineering Report and Concept Design report (CDR)
- Provide Detailed Design and engineering
  - 30% Design and Concept Finalization Report (CFR)
  - 60% Detailed Design
  - Permitting
- Provide Cost Modeling and GMP Development
- Provide Preconstruction Phase Services including Project Management
  - Project Kickoff and Milestone Workshops
  - Risk Management
  - Procurement
  - Work Package Development and Project Phasing
  - Construction Sequencing and Coordination with Operations (MOPO- Maintenance of Project Operations)

PROCUREMENT INFORMATION

Contract Type:	Cost-Plus Fixed Fee	**Award Based On:**	Best Value
Commodity:	Engineering Design Services	**Contract Number:**	250170
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Water Program and LFDC
Service Area:	Water	**Department Head:**	William Elledge
Project:	QG		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	$ 18,400,000.00
Federal Funds	0.00%	$
Washington Suburban Sanitary Commission	0.00%	$
Fairfax County	0.00%	$
Loudoun County & Potomac Interceptor	0.00%	$
Total Estimated Dollar Amount	**100.00%**	**$ 18,400,000.00**

Signed by: Moussa Wone B41797CAE4B8407... 12/8/2025
Moussa Wone Date
Chief Engineer and Vice President

DocuSigned by: Matthew T. Brown 262C5D96CC1C4D3... 12/9/2025
Matthew T. Brown Date
Chief Financial Officer and Interim Chief Operating Officer

DocuSigned by: Korey Gray 40BDAE0B31E6429... 12/8/2025
Korey R. Gray Date
Vice President of Compliance and Chief Procurement Officer

David L. Gadis Date
Chief Executive Officer and General Manager

District of Columbia Water and Sewer Authority

Board of Directors

Meeting of the Environmental Quality and Operations Committee – Executive Summary December 18, 2025 | 9:30am

Automated Metering Infrastructure (AMI) Performance Assessment and Optimization Program

Introduction

DC Water's Automated Metering Infrastructure (AMI) system—originally installed in 2006 and most recently upgraded in 2019—currently has an 88% read success rate. The industry standard for AMI system performance is 98.5%. DC Water is working to improve its AMI performance to increase accurate billing, operational efficiency, customer experience, and revenue capture.

DC Water has completed a Phase I assessment that evaluated its AMI performance, operational workflows, warehouse practices, and policy alignment. The purpose of this summary is to present the key findings and planned actions for attaining and sustaining benefits from its AMI investment.

Assessment Objectives

Primary objectives of the Phase I (April-September 2025) assessment were to:

- Identify root causes of AMI system underperformance
- Evaluate AMI-related policies, operational workflows, and system maintenance practices
- Determine process gaps across meter operations, billing, IT, and warehouse management
- Develop actionable short-term and long-term solutions to improve system reliability
- Support DC Water's broader goals of reducing Non-Revenue Water (NRW), enhancing customer confidence, and improving billing practices by reducing the number of estimated reads.

Assessment Key Findings/Approach

A comprehensive review was conducted through:

- Nine process-mapping workshops across Billing, Meter Operations, and IT
- Field investigations, including 8–10 site visits to assess "no-read" issues
- Warehouse MTU triage, evaluating over 600 devices that had been removed to eliminate prolonged exceptions, estimates, and the potential for disputes
- Policy reviews (access, theft/tampering, leak adjustment, system ownership).
- Analysis of past deployment and upgrade project results, including performance trends.

Key Findings:

- 14,000 endpoints require investigation or replacement, including aging devices - noncommunicating devices that were not addressed during the 2019 upgrade project - and newer devices experiencing premature failures
- More than 15,000 AMI system alerts exceed staff capacity and limit proactive maintenance

- To more expeditiously address prolonged estimated meter reads, hardware is often replaced rather than field tested and repaired, leading to functional equipment being pulled prematurely
- Manual meter reading results in increased O&M costs and delaying root-cause correction
- Meter access issues impact field response, increase estimated billing, and prevent equipment repairs

Collectively, these findings demonstrate that the AMI challenges stem from both technology performance and organizational processes. Addressing both is essential to restoring system integrity.

Optimization Plan

Building on the Phase I assessment, the Phase II (Implementation Phase) begins **January 2026**. Key activities include:

- Revised billing, warehouse, and field processes and standard operating procedures
- Warehouse staffing plan to handle backlog
- Policies to address customer access issues
- AMI data clean-up
- Targeted cleanup project to eliminate system backlog & system performance issues

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Anticipated Optimization Plan Timeline

- **Task 1 – Immediate (0–6 months):**
  - Stand up warehouse triage team; begin RMA (Return to Manufacture Authorization) backlog processing (Currently underway in-house)
  - Initiate third-party field cleanup; prioritize highest-risk accounts (RFP development scheduled to commence as soon as the new task order is issued)
  - Implement new field investigation workflow and dispatch function (Work in progress)
  - Design and integrate alert responses and other AMI functionality (Work in progress)
  - Communicate meter access and policy changes to customers (Work in progress)
  - Ensure customer engagement through strategic outreach (Work in progress)

- **Task 2 – Intermediate (6–12 months):**
  - Standardize Return Material Authorization (RMA) processes relating to failed endpoint communication devices (MTU) to achieve warranty recovery
  - Align AMI analytics thresholds and refine alert categories
  - Reduce manual reading dependency through access assurance and system health

- **Task 3 – Long-Term (12+ months):**
  - Consider integration of AMI operations into Computerized Maintenance Management system / Asset Management System (CMMS/AMS) modernization
  - Evaluate long-term replacement strategy for aging AMI components
  - Institutionalize cross-functional governance for meter-to-cash operations.

Benefits to be Realized

Implementation of the recommended improvements will result in:

- Higher AMI read success levels, enabling accurate billing and reduced NRW
- Reduction in manual meter reading costs and unnecessary truck rolls
- Improved customer confidence, driven by accurate bills and fewer disputes
- Recovery of warranty value and reduced capital expenditure through warranty return processing
- Improved operational efficiency across Meter Operations, Billing, and Warehouse functions
- Enhanced ability to leverage AMI analytics for proactive maintenance and system reliability.

Plan Forward

DC Water is committed to improving and optimizing AMI system performance through a structured, multi-phase strategy that strengthens technology reliability, operational discipline, and customer service. Phase I has provided the data-driven foundation needed to move forward.

The plan forward focuses on:

- Executing Phase II beginning January 2026.
- Prioritizing system cleanup, warehouse optimization, and access compliance.
- Instituting long-term governance and integrating AMI into broader modernization initiatives.

This approach will help stabilize system performance, strengthen revenue integrity, and ensure that DC Water delivers accurate, equitable, and reliable service to all customers.

District of Columbia Water and Sewer Authority

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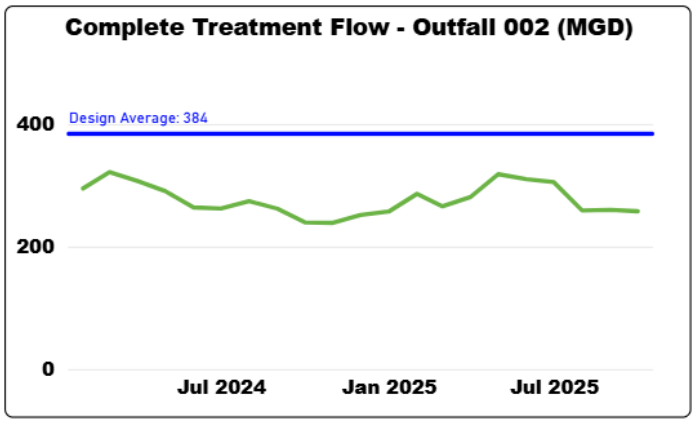
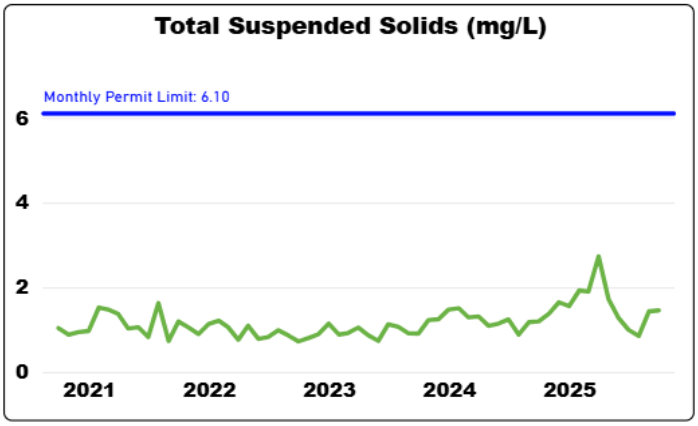
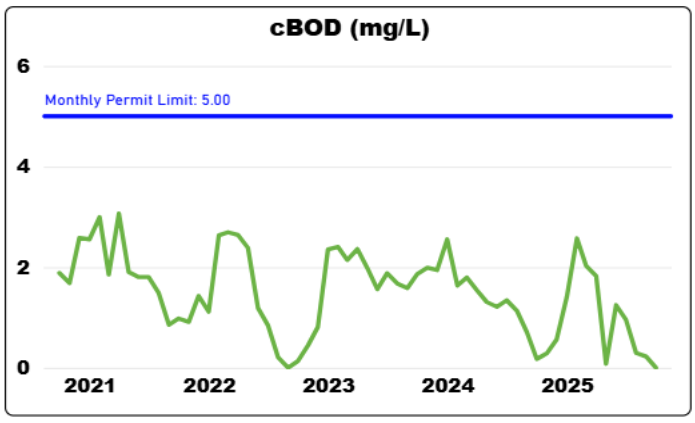
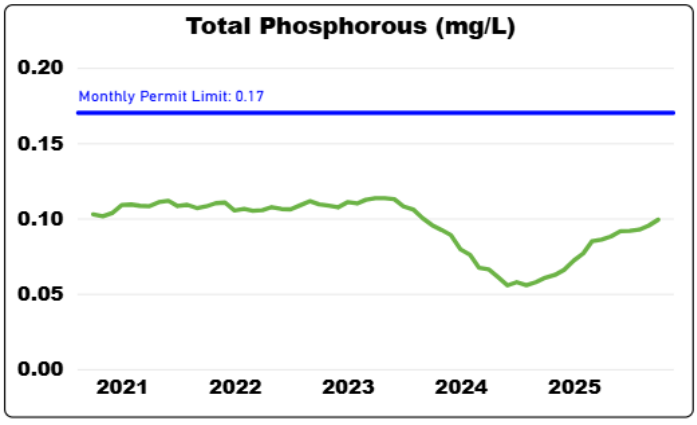
November 2025 Blue Plains Wastewater Treatment Plant Performance

Monthly Average Flow Trend to Complete Treatment (MGD)



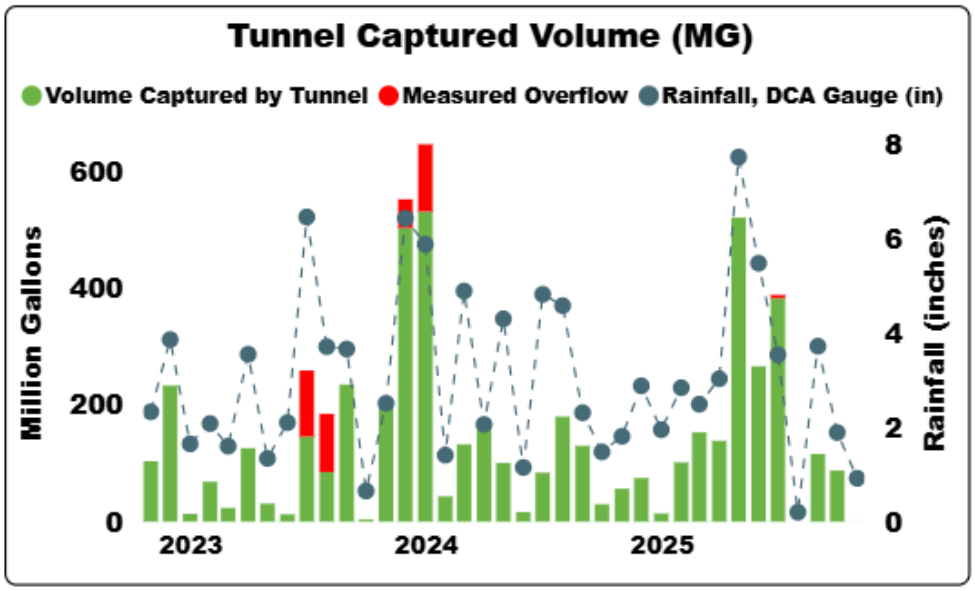






- All weekly and monthly NPDES permit requirements were met
- Average Outfall 002 flow for October 2025: 258 MGD
- Peak Day flow for October 30th at 431 MGD

Anacostia River Tunnel System
Monthly Performance Nov 2022 – Nov 2025



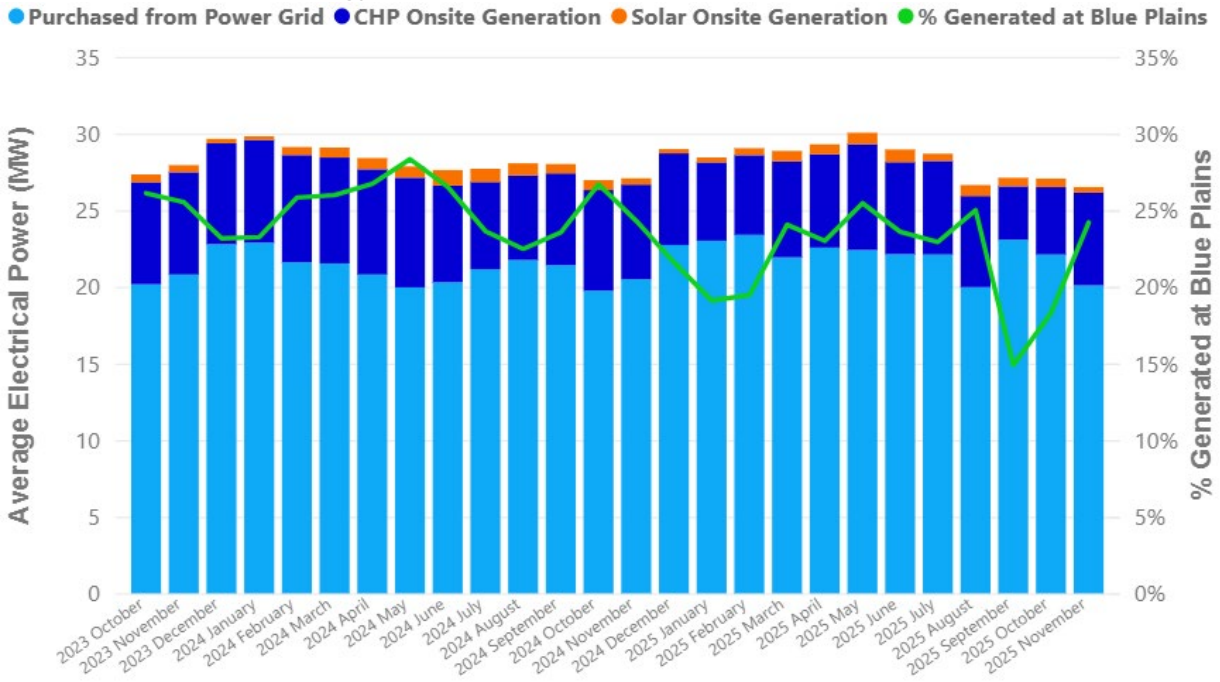
Total Annual System Performance
from Start-Up (2018-2024)

	Anacostia River Tunnel System
Number of events	350
Volume Captured, MG	17,775
Volume to CSO, MG	1,653
Percent Captured, %	91.5

Note: Total System includes Anacostia, Potomac, and Rock Creek
MG ~ Million Gallons
CSO~ Combined Sewer Overflow

1546 MG of volume captured by Anacostia River Tunnel System in Calendar Year 2024, with 115 MG overflow

Blue Plains Electrical Energy Use and Generation

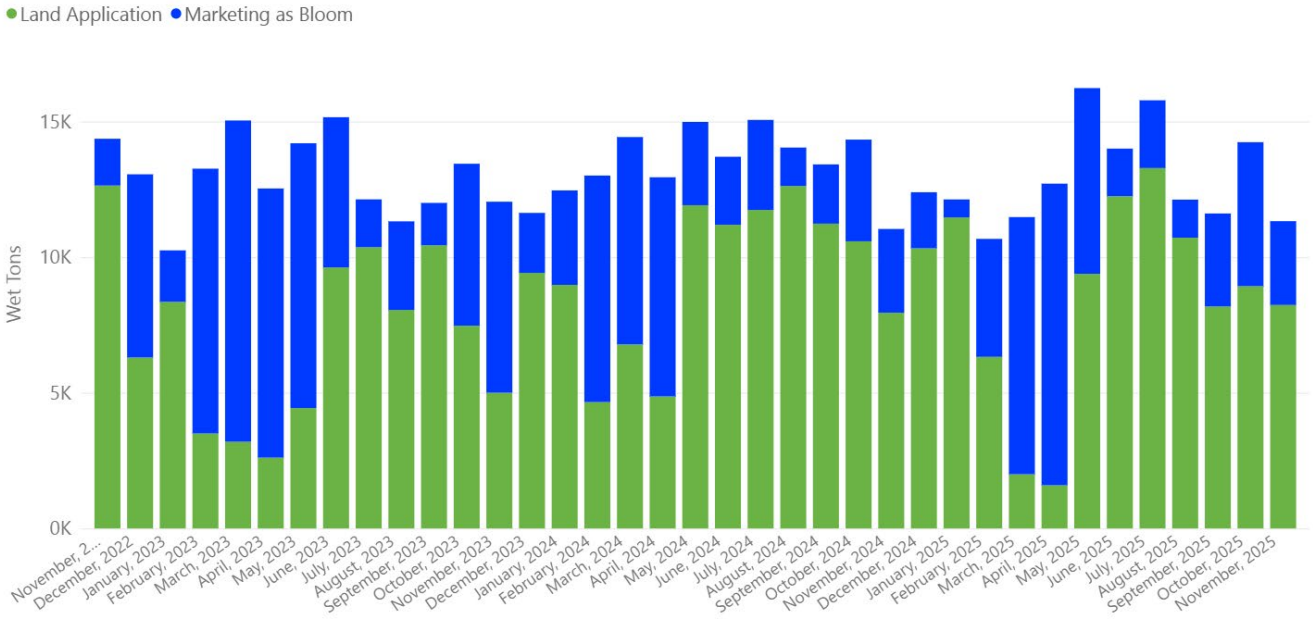


Note: Total Purchase Power Savings based on actual grid power invoicing to DC Water and power produced on site at CHP & Solar Panels.

- 24% of electricity was generated onsite
- Combined Heat and Power (CHP) facility produced an average of 7.39 megawatts (MW)
- Solar System produced an additional 0.56 MW of power on average
- Total electricity consumption at Blue Plains averaged 0.34 MW
- Total electricity consumption at Blue Plains averaged 26.42 MW with average of 20.05 MW purchased from PEPCO
- Total Purchased Power Savings FY2025 (thru September 2025): $3,430,120

Note: Total Purchase Power Savings based on actual grid power invoicing to DC Water and power produced on site at CHP & Solar Panels.

Total Production of Class A Biosolids and Beneficial Reuse by Type



- In Nov., Blue Drop sold approximately 3090 tons of Bloom; for a total of 8,398 tons towards the FY26 goal of 62,000 tons.
- Blue Plains Produced 11,329 tons of biosolids for the month with the remaining 8,239 tons managed through land application contracts.

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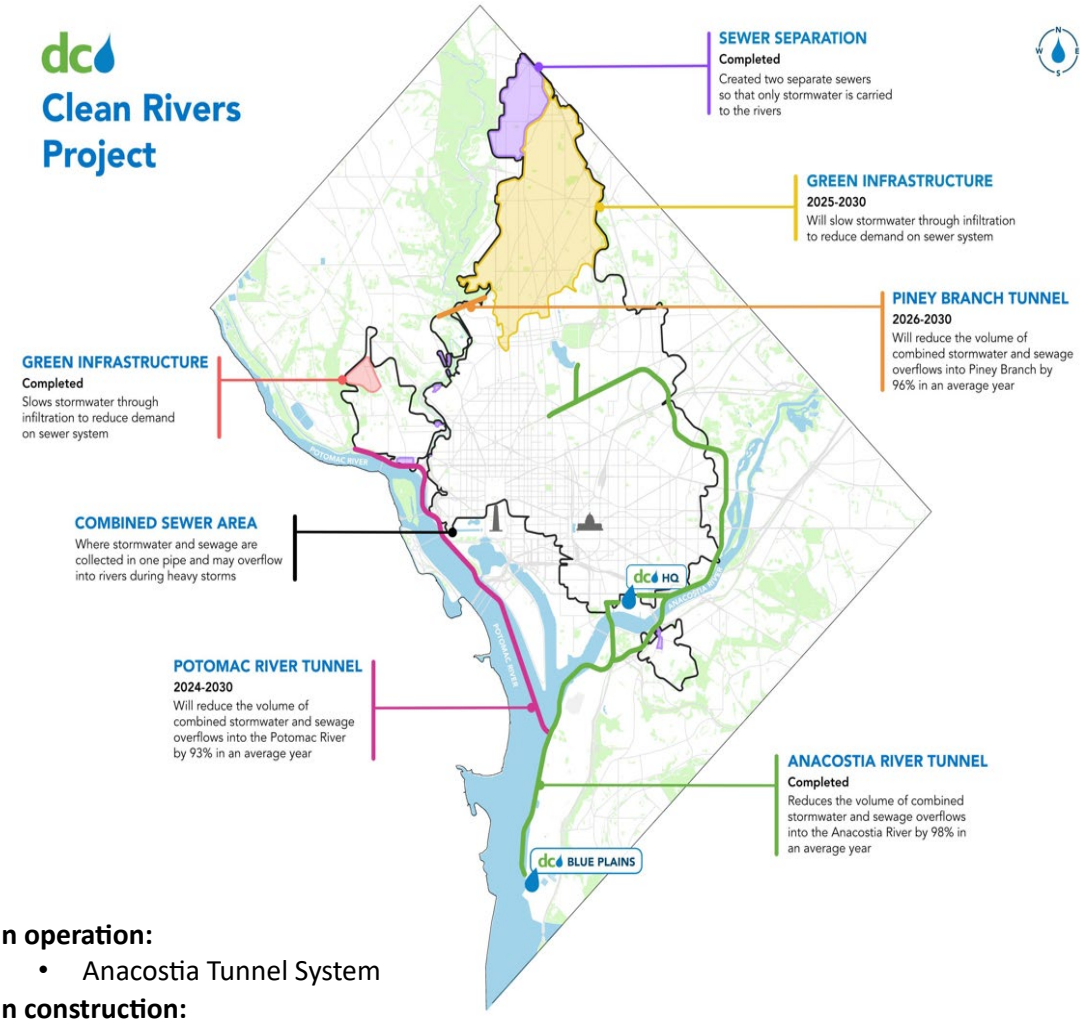
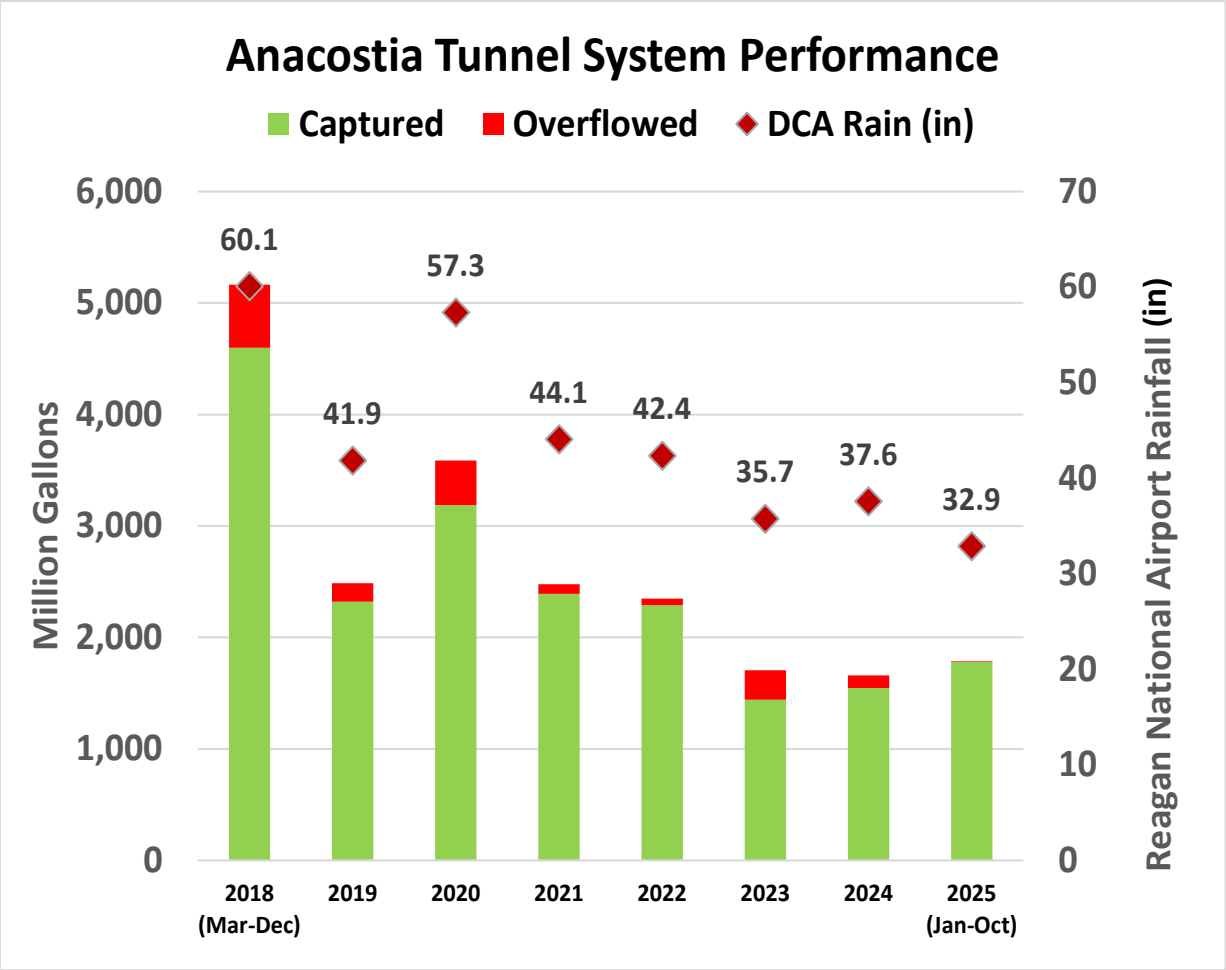
Clean Rivers Quarterly Report

Program Snapshot



- **In operation:**
  - Anacostia Tunnel System
- **In construction:**
  - Potomac River Tunnel
  - Rock Creek Green Infrastructure (GI) Project C
  - Piney Branch Tunnel Early Work Package
- **Future project (planning):**
  - Rock Creek Green Infrastructure (GI) Project D

Anacostia Tunnel System Performance



- Over 19.5 billion gallons captured
- 12,265 tons of trash, debris and solids captured

Potomac River Tunnel (PRT)

Potomac River Tunnel – Work Progress

West Potomac Park: Starter Tunnels at Bottom of Shafts

West Potomac Park: Shaft Support of Excavation

CSO 022: Secant Pile Construction for Shaft

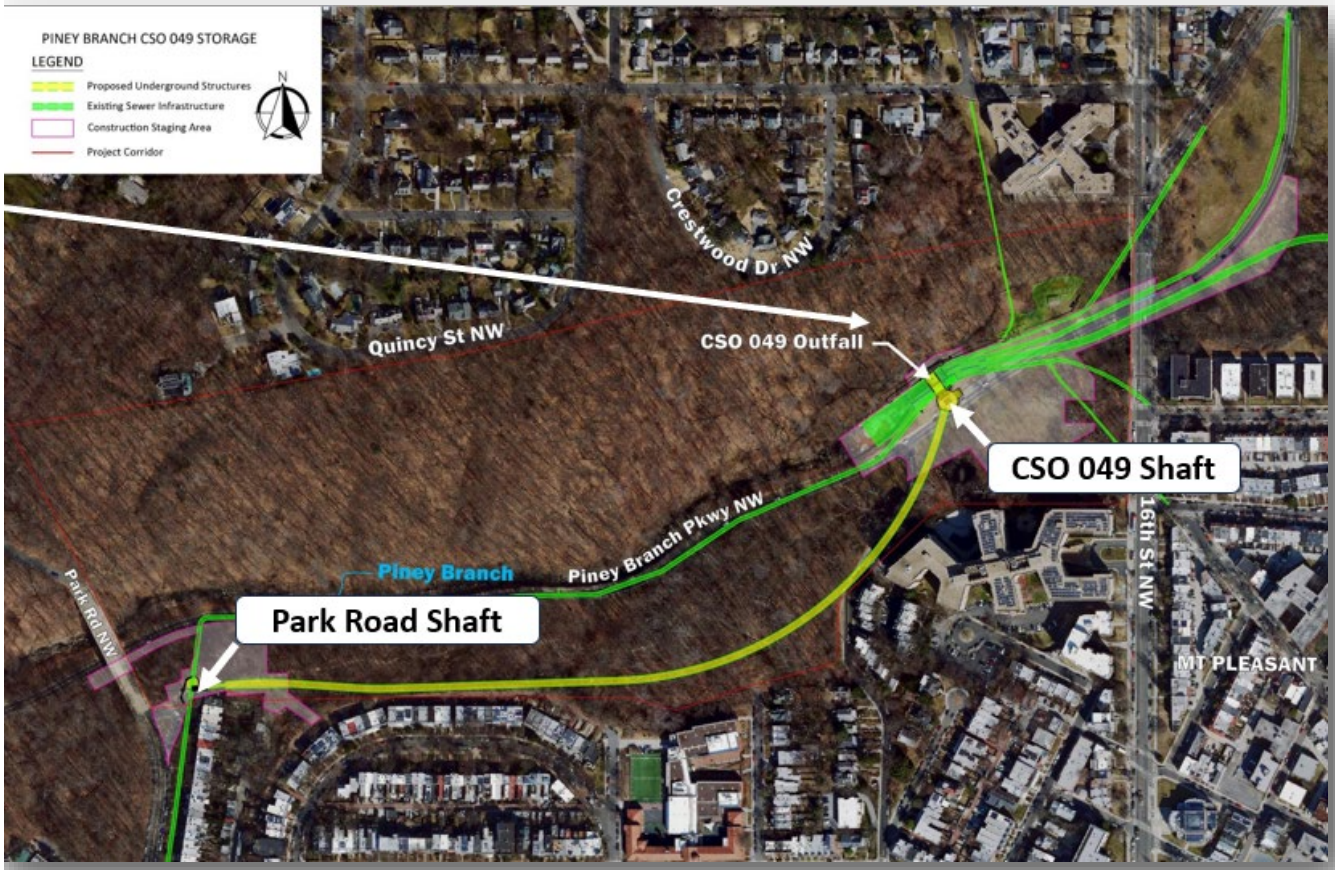
Potomac River Tunnel – Work Progress

CSO 029: Slope Stabilization

CSO 028: Secant Pile Construction

North TBM Ceremony

Piney Branch Tunnel (RC-T)



- Guaranteed Maximum Price approved at December 2025 Board Meeting

CSO 049: Site Setup/Tree Removal
(Early Work Package)

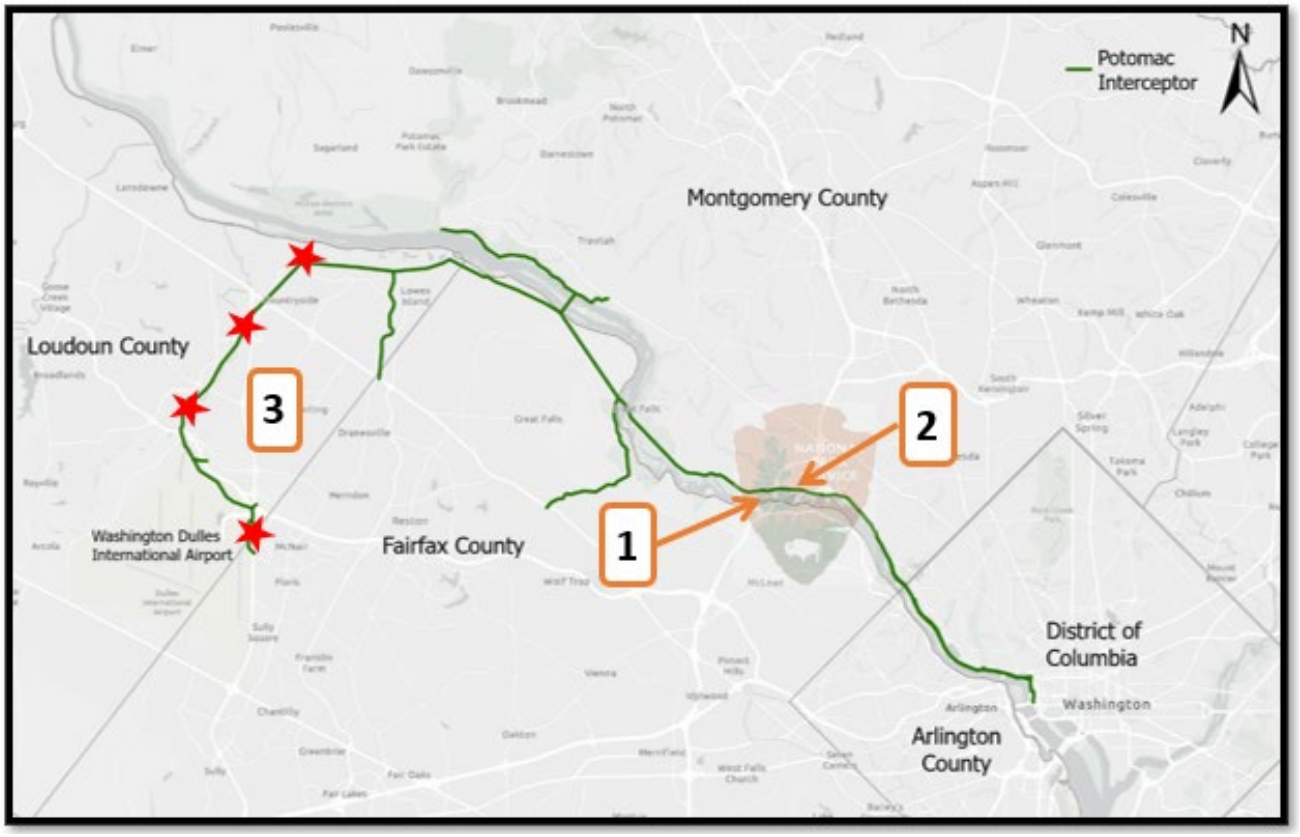
Rock Creek Green Infrastructure Project C (RC-C)

- Under construction and includes 43 permeable alleys in the Rock Creek/ Piney Branch CSO 049 sewershed
- Nine facilities completed, three facilities in active construction

Projects to Complete Consent Decree

Project	Construction Timeframe
Anacostia River	
All controls	In service
Potomac River	
Potomac River Tunnel	2024 – 2030 (in construction)
Rock Creek	
Green Infrastructure Project C	2025 – 2027 (in construction)
Green Infrastructure Project D	2028 – 2030 (future project)
Piney Branch Tunnel	2026 – 2029 (in construction, Early Work Package)

Potomac Interceptor (PI)



1 PI HP Potomac Interceptor High Priority (800LF) — *In construction*

2 PI-01 Lock 10/Cabin John Geopolymer Rehab (10,800 LF)

3 PI-02 Broad Run FFX Repairs (6,000 LF)

In permitting and final preparation for procurement

The **Potomac Interceptor**, a 54-mile trunk sewer built in the 1960s, is experiencing significant **corrosion** and lacks redundancy. Poses a **risk** to the delivery of suburban wastewater flow to Blue Plains in the event of a failure. **Rehabilitation** efforts will prioritize addressing the most **critical needs first**.

Potomac Interceptor High Priority (PI HP)

Potomac Interceptor High Priority project is a sliplining repair of 800 LF of the most corroded section of the PI. Recently the PI was excavated, and shoring was installed to expose the pipe. The next construction activities are to clean the pipe, install the pipe pushing machine, and begin the sliplining.

Excavation Pit with Support of Excavation

PI Concrete Corrosion

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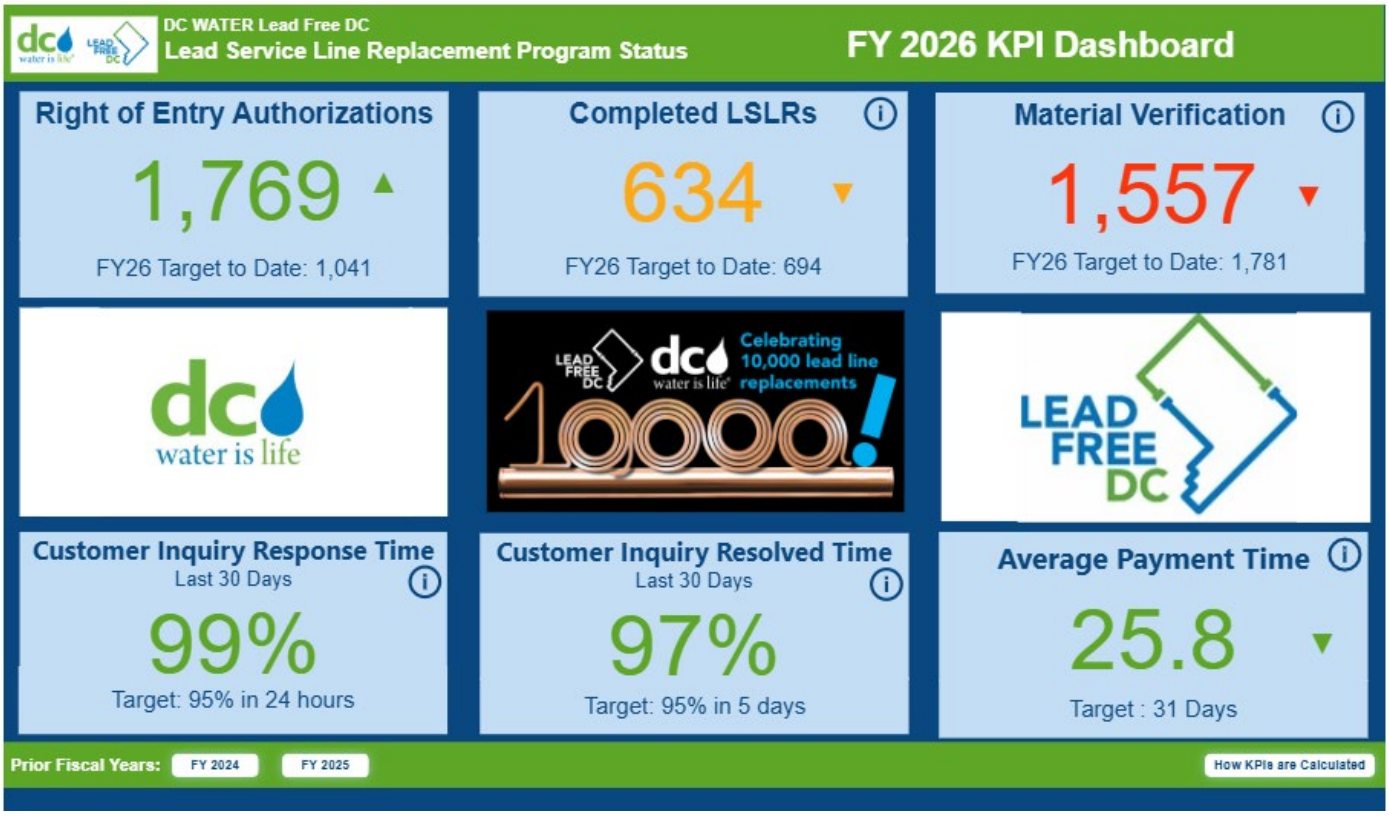
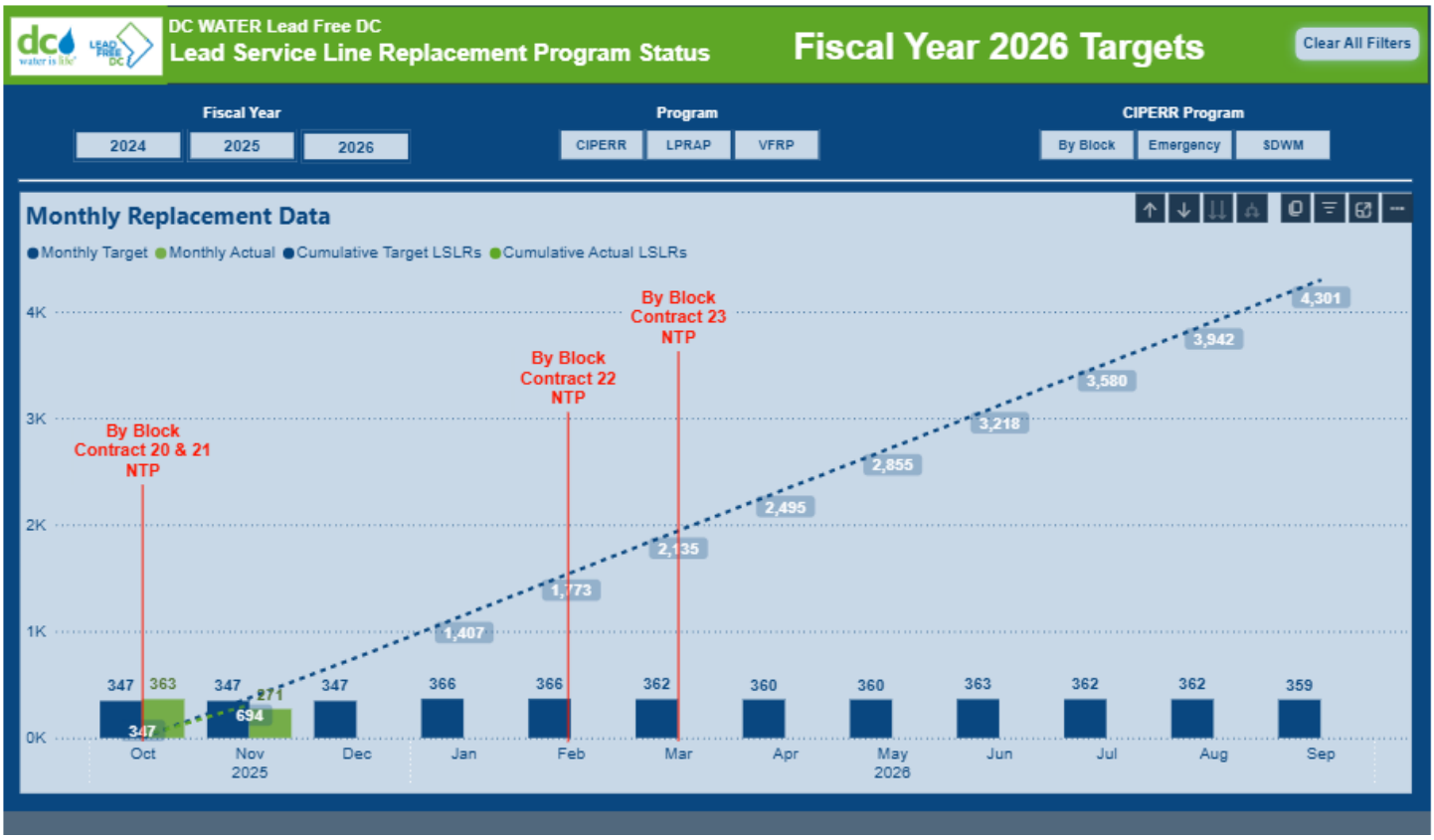
Lead Free DC & Small Diameter Water Main Replacement Quarterly Update

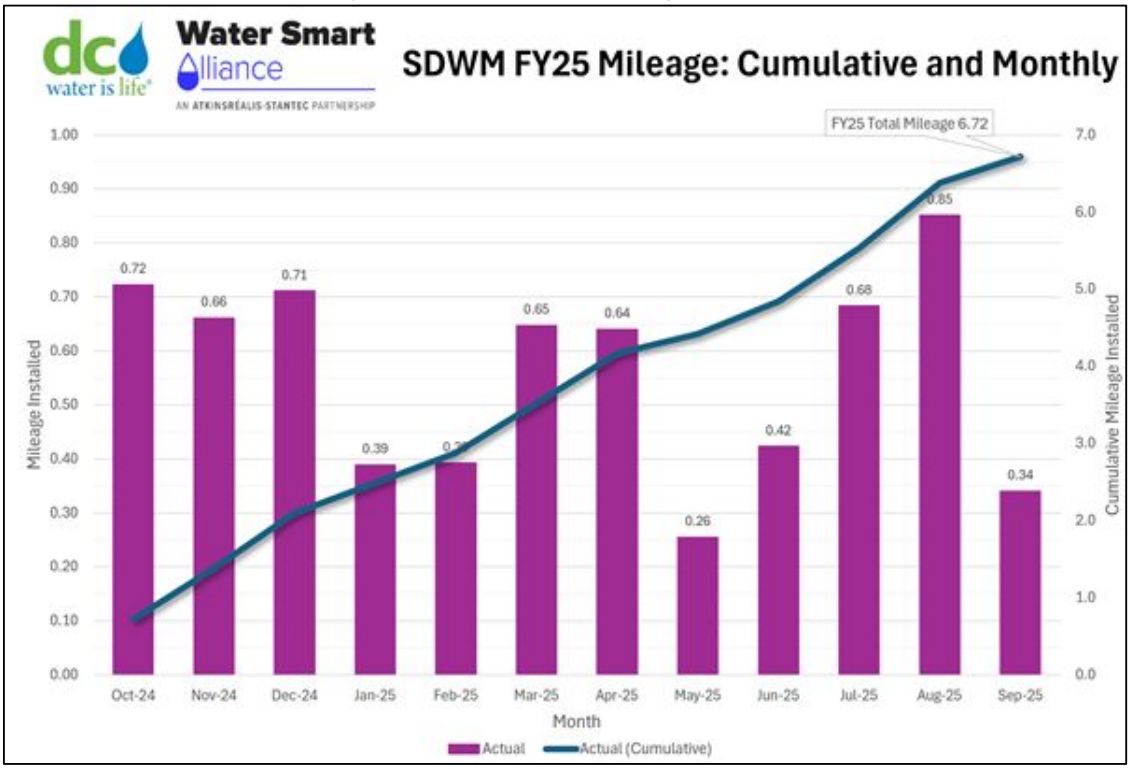
Lead Free DC KPI Dashboard



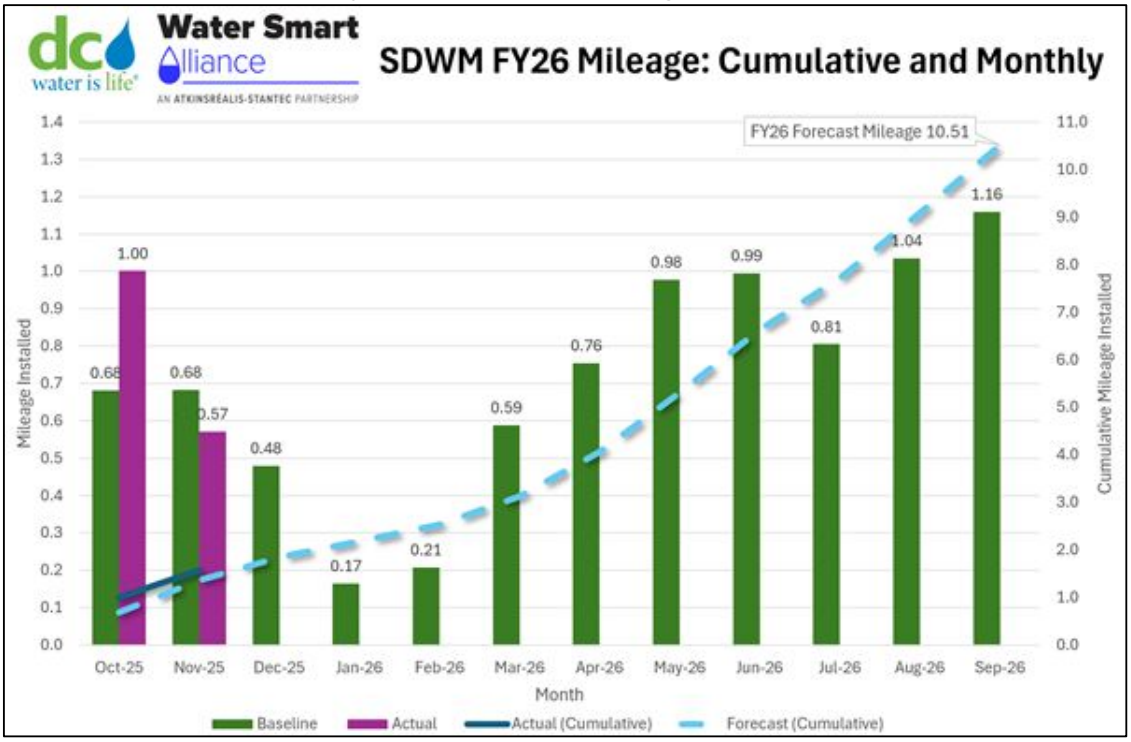
Lead Free DC FY26 Targets



Small Diameter Water Main Replacement KPIs: FY25 Mileage



Small Diameter Water Main Replacement KPIs: FY26 Mileage



Lead Free DC and Small Diameter Water Main Replacement Updates

- Achieved 10,000th replacement milestone for the LFDC DC Program
- Two new LFDC construction packages were awarded and issued notice to proceed
- Collaboration on shared paving opportunities with DDOT and other utilities has resulted in $1.08M in savings to date
- EPA Released Funding Allotments for Lead Service Line Replacements
    - FY23 $5,459,000 (redistribution from other states)
    - FY24 $5,861,000 (redistribution from other states)
    - FY25 $28,650,000
- In FY25 SDWM has 3 contracts completed, 3 new contracts awarded and started construction, 1 PDB contract completed selection and currently undergoing negotiations