



DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Board of Directors

Meeting of the
Environmental Quality and Operations Committee

Thursday, April 20, 2022
9:30 a.m.

Microsoft Teams meeting

Join on your computer, mobile app

[Click here to join the meeting](#)

Meeting ID: 253 852 644 717

Passcode: RtimmeE

9:30 a.m.	I.	Call to Order	Sarah Motsch Chair
	II.	Roll Call	Michelle Rhodd Board Secretary
9:35 a.m.	III.	BPAWTP Performance Update	Akliile Tesfaye
9:40 a.m.	IV.	Buried Water Line Leak Detection	Jason Hughes, Sylvia Okogi Churchill Okonkwo
9:55 a.m.	V.	Unifier Implementation	Paul Guttridge, Paul Laban
10:10 a.m.	VI.	NEBT Commissioning	Moussa Wone
10:25 a.m.	VII.	Action Items	Joel Grosser, Brent Christ David Parker

Joint Use

1. Agreement Number: DCFA-504 - Supplemental Agreement - Non-Process Facilities Program Manager - McKissack & McKissack of Washington DC
2. 19-PR-DWT-14 – Belt Press Dewatering Polymer – Polydyne
3. 20-PR-DMS-01 – Instrumentation Maintenance and Repair of Electrical Control Equipment – M. C. Dean
4. 18-PR-DET-17 – Billing Meter Maintenance and Data Portal – RJN Group

Non-Joint Use

1. Contract No, 150070 – Piney Branch Sewer Rehabilitation Phase 1 – Spiniello Companies

10:40 a.m.	VIII.	Fire Hydrant Update	Sylvia Okogi
10:45 a.m.	IX.	Water Quality Update	Anjuman Islam

10:50 a.m. X. Other Business/Emerging Issues

10:55 a.m. XI. Executive Session*

11:00 a.m. XII. Adjournment

Sarah Motsch

Follow-up Items from Prior Meetings:

1. David Parker (VP, Engineering): To arrange a presentation to the Committee on DC Water's approach to incorporating equity considerations in the prioritization of CIP infrastructure projects. **Presentation to be delivered at July 2023 Committee.**
2. Chief Legal Officer and EVP, Mark Battle: To provide a chart summarizing which actions Principal and Alternate Board members can vote on **Response Under Development by OGLA**
3. In response to the CSO Summary data, the Committee requested that data for previous calendar years be presented in future. This will allow comparison of the frequency of CSO events and performance of the tunnel systems in different years, since the commissioning of the Anacostia River Tunnel. **This is included in the Blue Plains report for this month and will continue from here on out.**

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.

BPAWTP UPDATE

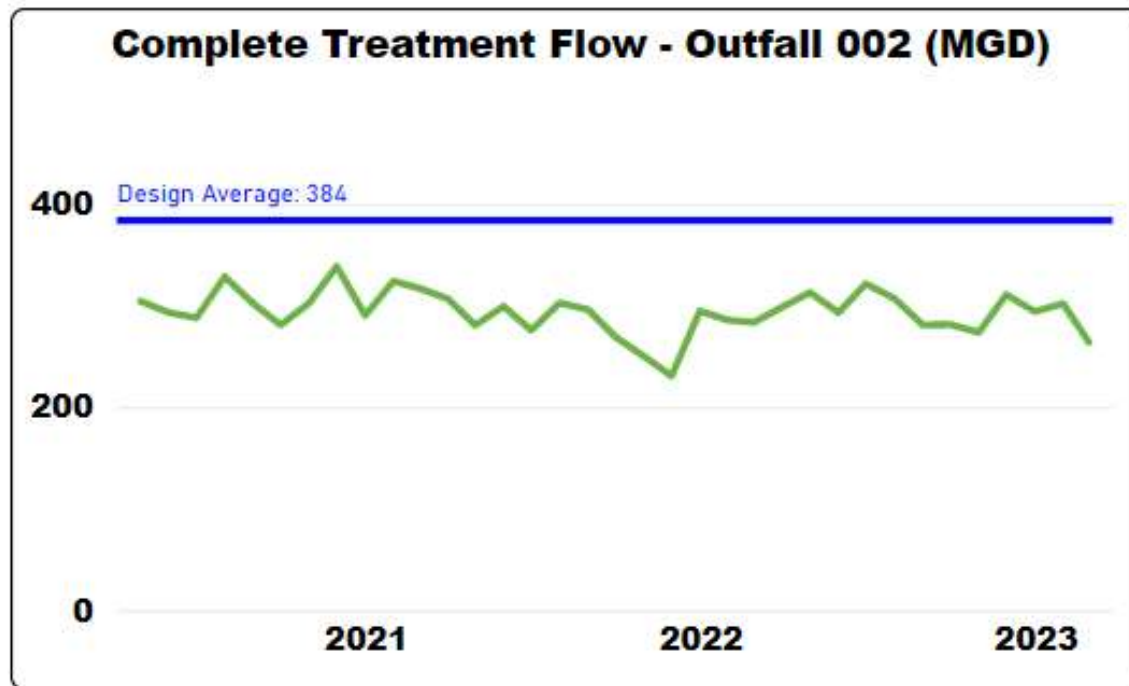


Blue Plains AWTP – IMA Regional Committee Standard Updates
April 20, 2023

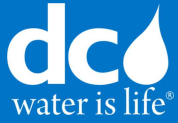


Aklile Tesfaye, Vice President, Wastewater Treatment Operations

Monthly Average Flow Trend to Complete Treatment (MGD)

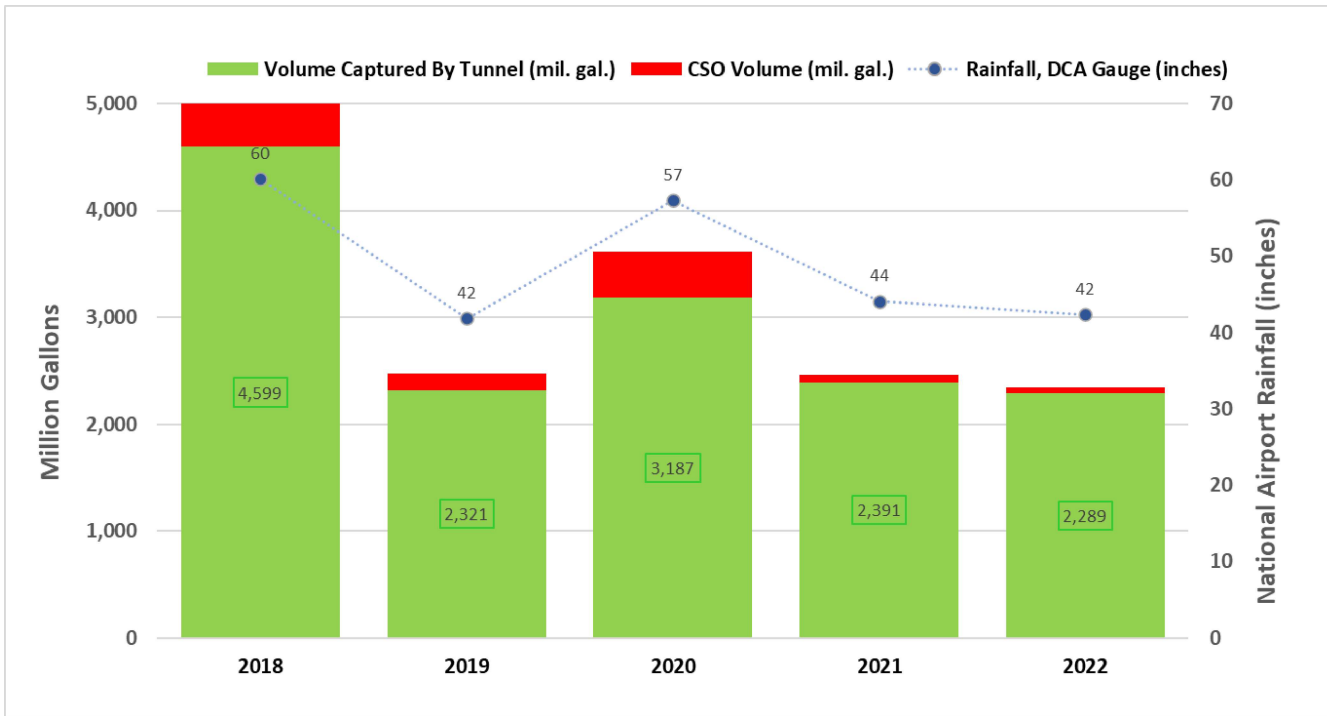


- All weekly and monthly NPDES permit requirements were met
- Average Outfall 002 flow: 264 MGD



Operational Performance Tunnel Systems and Wet Weather Treatment

Anacostia River Tunnel System Annual Performance 2018 - 2022



Total System Annual Performance 2018-2022

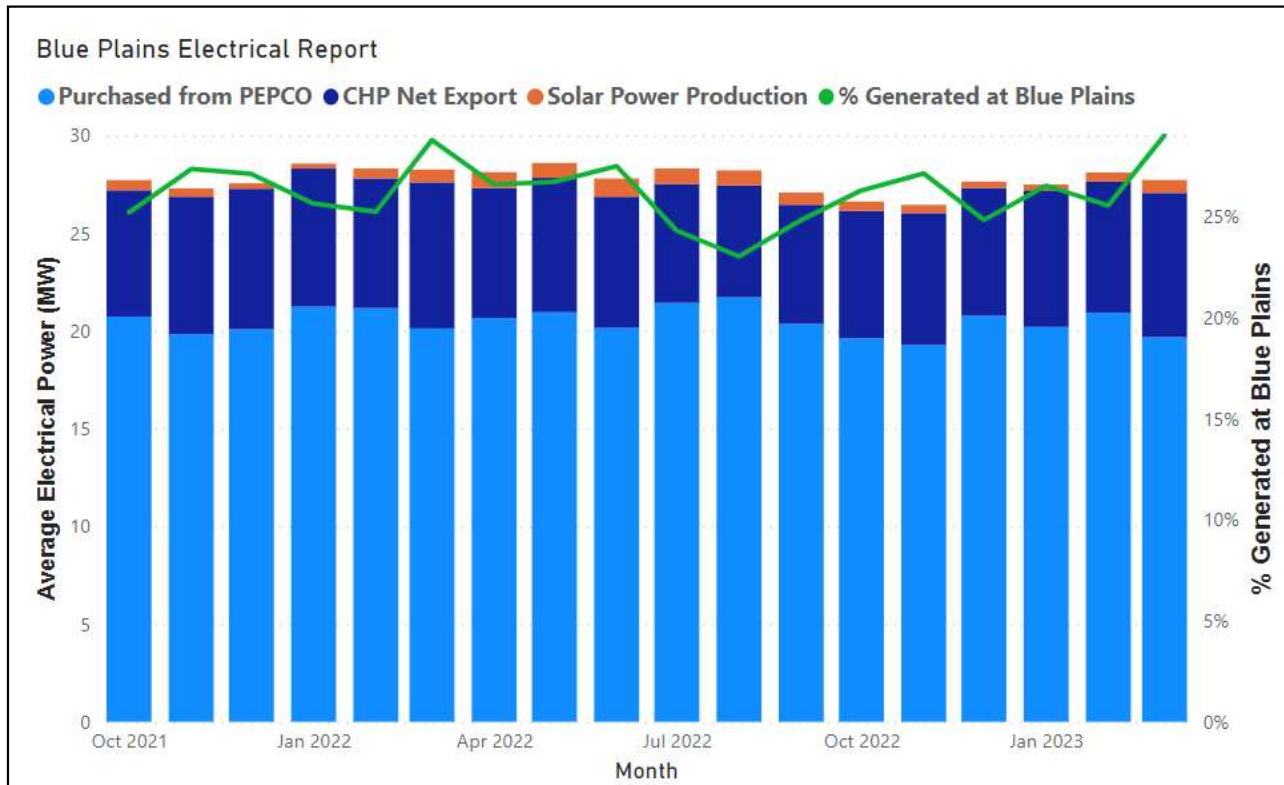
	Anacostia River Tunnel System	Total System
Number of events	61	398
Volume Captured, MG	14,786	18,177
Volume to CSO, MG	1,342	6,943
Percent Captured, %	91.7	72.4

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



Operational Performance Electrical Energy Use and Generation

Blue Plains Electrical Energy Use and Generation



- 29% of electricity was generated onsite
- Combined Heat and Power (CHP) facility produced an average of 8.8 megawatts (MW), with 7.4 MW net to Blue Plains grid
- Solar System produced an additional 0.7 MW of power on average
- Total electricity consumption at Blue Plains averaged 27.7 MW
- DC Water purchased an average of 19.7 MW of electricity from PEPCO

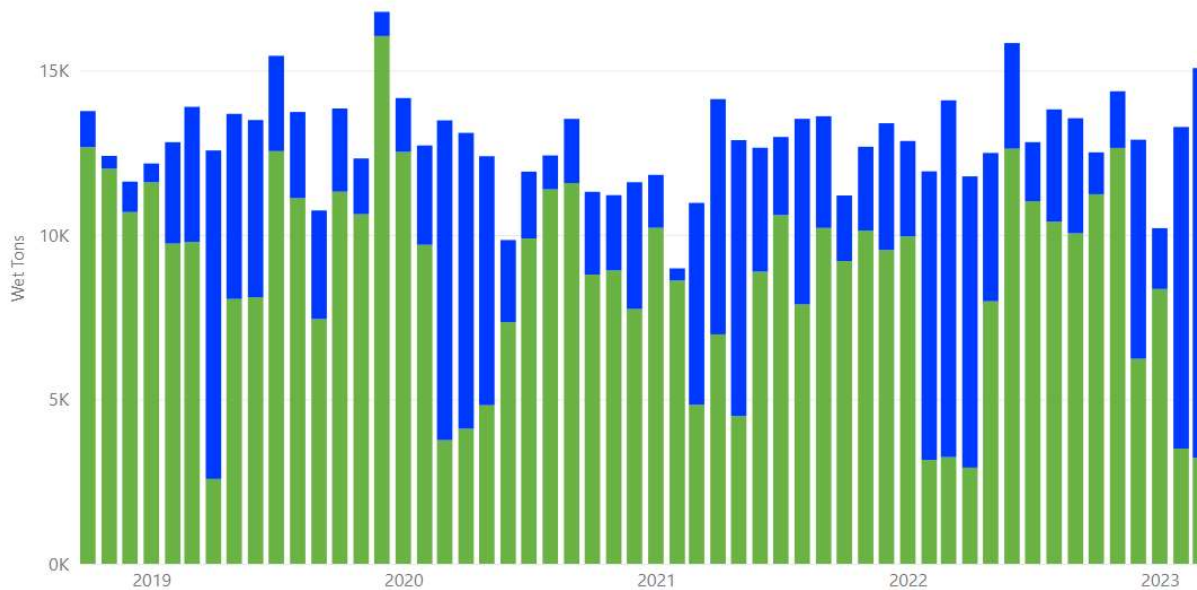


Operational Performance Class A Biosolids Production

Total Production of Class A Biosolids and Beneficial Reuse by Type

Total Production of Class A Biosolids and Beneficial Reuse by Type

● Land Application ● Marketing as Bloom



- In March, a total of 15,072 of Class A Biosolids were sold and/or recycled and met EPA's Exceptional Quality (EQ) requirements. This averaged 486 wet tons per day, some of which was held over in temporary storage at Blue Plains from February.

- In March, Blue Drop sold 11,852 tons of Bloom, which exceeded the goal of 8,308 tons. This was a new record high for a month, and over 1,000 tons more than last March.

- FY 2023 total through the end of March is 33,187 wet tons

- Marketing is on track to meet our sales goal of 58,000 tons.

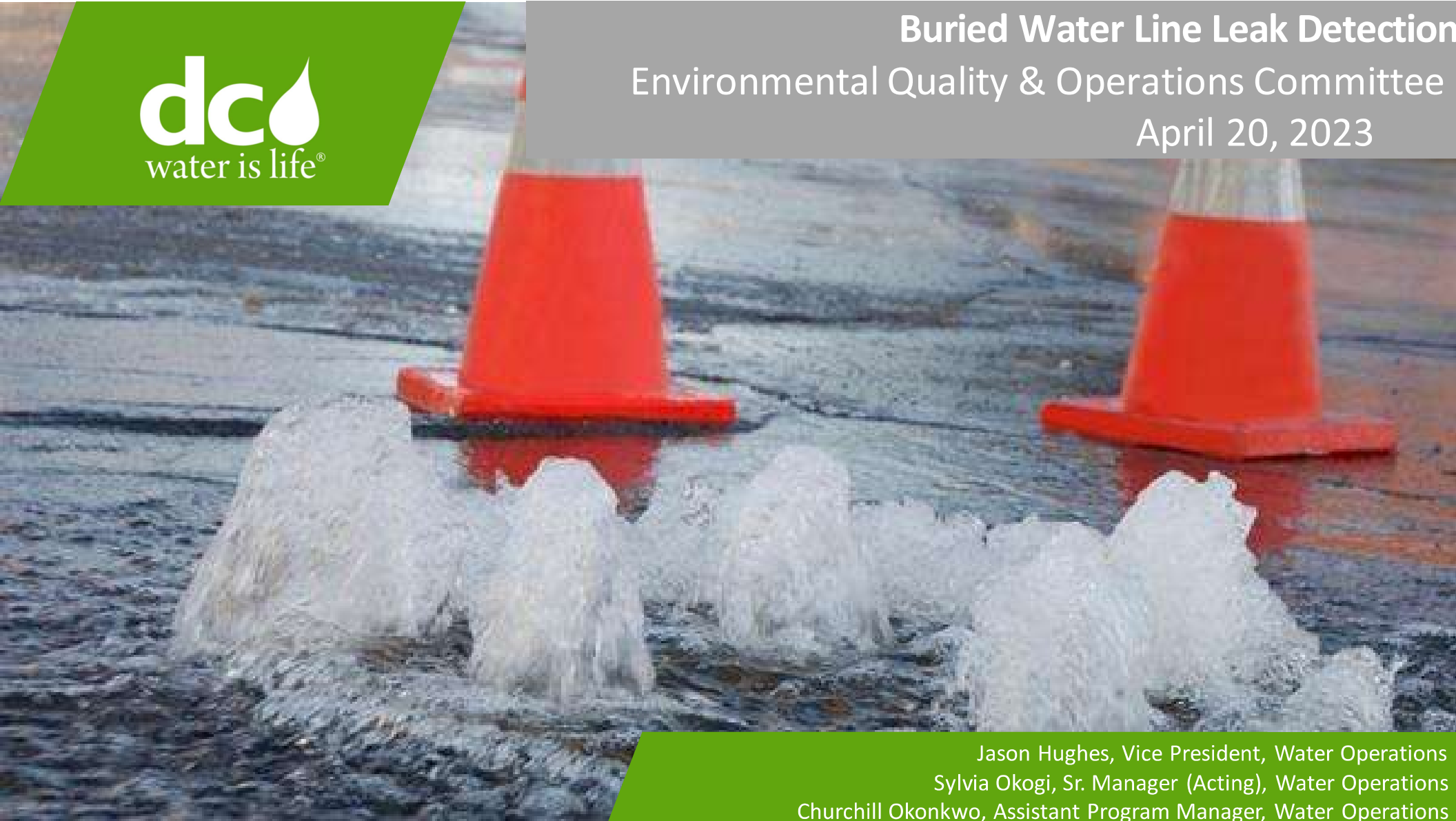
Buried Waterline Leak Detection



Buried Water Line Leak Detection

Environmental Quality & Operations Committee

April 20, 2023



Jason Hughes, Vice President, Water Operations
Sylvia Okogi, Sr. Manager (Acting), Water Operations
Churchill Okonkwo, Assistant Program Manager, Water Operations

- Background
- FIDO and the Pilot
- Next Steps



- Old and **aging infrastructure**.
- Persistent known **leaks** difficult to locate.
- Very responsive but typically **reactive**.
- A shift towards **proactive** response will improve system **reliability** and **resilience**.
- Continue to prioritization of all imperatives remains critical.



- Reduction in **Non-Revenue Water** (NRW) loss remains a priority.
- Balancing competing interests for time and resources makes **innovation** important.
- Exploring **technology** options can enhance our efforts.
- Enter the **FIDO AI** opportunity.



- **FIDO** is an international AI company with leak detection services throughout various global markets.
- DC Water identified the tool through collaboration with **Isle Technology Approval Group (TAG)** utility partners (S. Kharkar)
- Water Operations partnered with Innovation to begin the journey
- Pilot cost were moderate to explore proof of concept in our system.



- **KNOWN LEAK PROBLEM AREA:**

Alabama Avenue & Good Hope Roads, SE

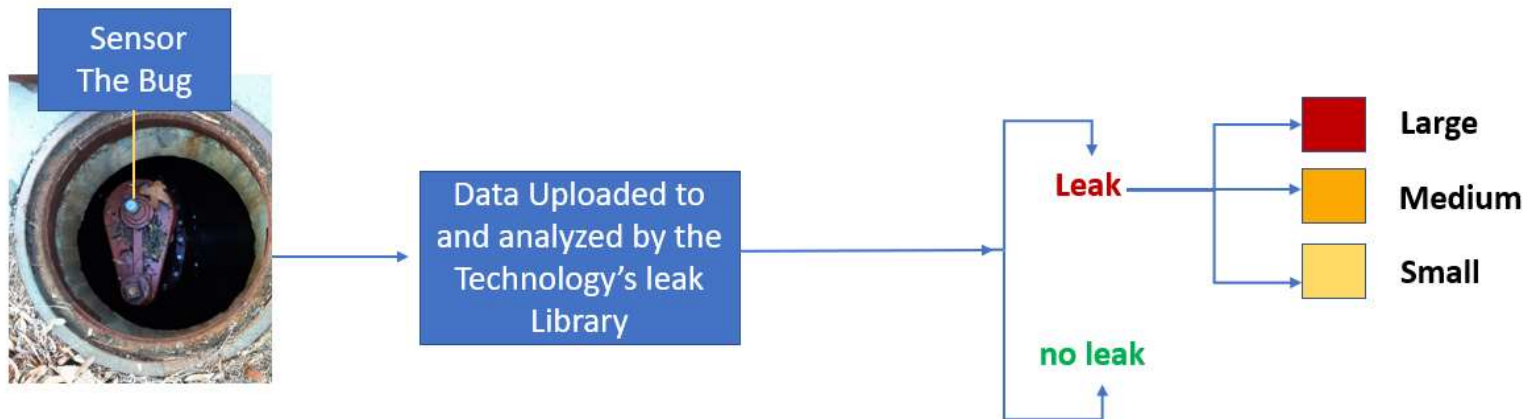
- A. multiple water main of different ages, sizes, and materials.
- B. unseen leaks are difficult to detect.
- C. traffic noise interferes with traditional leak detection methods.
- D. Leak detection in large water lines is typically challenging.



■ THE TECHNOLOGY:

FIDO Leak Detection System Components

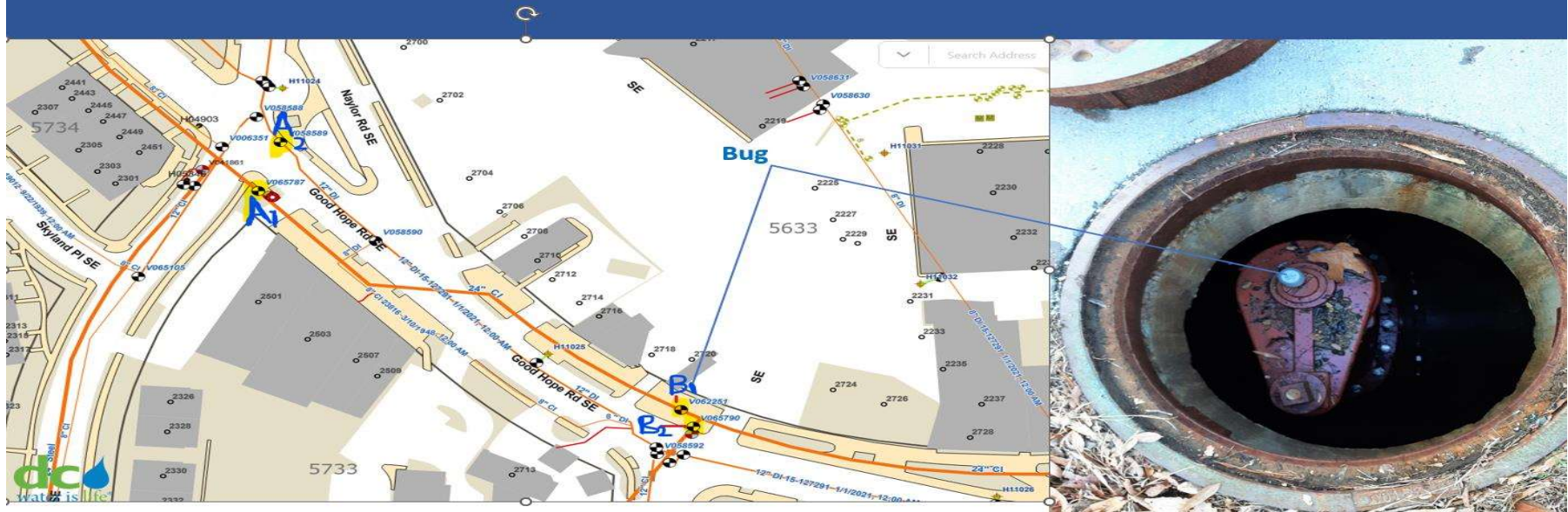
- Instant delivery of the leak size (small, medium, and large) in the technology's mobile application.



- THE TECHNOLOGY:

FIDO bugs were deployed in a “sweep” in the known problem area.

Sweep on 24” and 12” Water Mains on Good Hope Rd SE - December 14th, 2021



■ **THE RESULTS:**

- Narrows focus.
- Guides follow-up investigation activities.
- Correlation points identified.
- Exploratory work continued.



Heat map of the acoustic showing the classification of field result as non-leak, leak, is continuous for the technology.

- **THE RESULTS:**
 - Identified and repaired two unseen system leaks.
 - Leak detection on a 24" water main was a significant breakthrough.
 - Able to confirm the tool works in our system.
 - Leak sizing is extremely important.



- Continue the exploration and ***pilots*** with technology across additional areas of the system
 - Align with the shift in **FIDO** service delivery and growing business model.
 - Assess an ***alternative technology*** solution leveraging fire hydrants.
- Use technology to evaluate **known** and **unknown** areas of concern.



- Continue the distribution system analysis efforts to better inform **system performance** and guide leak detection efforts.
 - Boundary valve assessment review
 - System pressure monitoring
 - Hydraulic grade-line evaluations
 - Pump and storage data assessments
 - Closed valve investigations
 - Non-Revenue Water assessments
- These additional operational activities will help **prioritize** and **sequence** the next phase of the **leak detection** pilot.



dc  Thank You



Unifier Implementation



Unifier Implementation Environmental Quality & Operations Committee April 20, 2023



CCM INSPECTOR DAILY SURVEILLANCE REPORT

Contract No: 130180
Contract Title: 130180 - Gravity Thickener Upgrades - Phase 2
Contractor:

TIME	CONDITION DUR	TEMPERATURE	PRECIPITATION	SKY	WIND
2:00 PM	88-90	None	Clear	20-30	
10:00 AM	88-90	None	Clear	20-30	
6:00 AM	68-70	None	Clear	40-50	

ACTIVITY SURVEILLANCE

Work Inspected By: Joseph Track

Project Status Report

DC WATER
8000 Overlook Ave., S.W.,
Washington, DC, 20032

Project Name: RC-B - Rock Creek GI Project B
Contractor: F.I. Myer Construction Corporation
Contract Number: 210040

Start Date: Dec 8, 2021
Original Finish: Sep 11, 2023
Current Contract Finish: Sep 11, 2023

PROJECT SUMMARY

Contract Green Infrastructure (GI) practices located in the public Right of Way (ROW) to average 12" of rain falling on the equivalent of approximately 1000 sq ft of impervious area within the Rock Creek sewerline.

General Contractor: F.I. Myer Construction Corporation
Engineer of Record: Hazen and Sawyer
DC Water Project Manager Name: Seth Chantre
DC Water Contractor: RSCM

BUDGET

	Contract Value	Duration	Finish
Original	\$15,896,873	642	Sep 11, 2023
Current (Approved Cost)	\$15,896,873	642	Sep 11, 2023
Projected (Pending Cost)	\$15,896,873		
Spent to Date	\$2,711,490		
Remaining	\$14,185,383		

SCHEDULE

Key Schedule Metrics

Total Float on Critical Path	0.00
Average Total Float	1.00
Total # of Activities	1504
In Progress	0
Completed	0

Graph details in Days

Time Taken: 0 150 300 450 600 750 900 1050

Legend: Time Expended (blue), Contract Duration (orange)

CHANGE MANAGEMENT

ORACLE Primavera Unifier

Paul Guttridge, Director CIP Infrastructure Management
Paul Laban, Senior Manager, Project Controls and Estimating

1. The Mission

- Project Management Systems Overview
- Project Goals/drivers
- Solution Timeline

2. The Implementation

- Implementation Timeline
- Old System vs New System (Contract Manager vs Unifier)
- Payments Transition to Unifier

3. Accomplishments

- Challenges
- By the Numbers
- Benefits of Unifier

4. What the future holds



Project Management Information Systems Overview

The PMIS is used to transparently manage the Design and Construction of Projects within the Capital Improvement Program:

Oracle Unifier is the DC Water Tool Used for project execution, including:

- Tracking Project Scope, Schedule and Cost
- Tracking Submittals
- Creating Requests For Information
- Creating and tracking Meeting Minutes
- Recording Daily Reports & Progress Photos
- Contractors & Consultants Detailed Payment Applications approval
- Completing Change Management – Request For Proposals and Change Orders
- Tracking Project Metrics and KPIs
- And more..

The screenshot displays the Oracle Primavera Unifier web interface. The top navigation bar includes 'Tasks' (2 Active) and 'Notifications' (3 Total). The main content area shows 'My Active Tasks' with a large yellow circle containing the number '2'. Below this, there are several overlapping windows:

- Payment Applications:** A table listing applications with columns for Invoice Number, Invoice Date, From Company, From Vendor Contact, and DC Water Company.
- CCM Inspector Daily Surveillance Report:** A report for Contract No. 130180, titled 'Gravity Thickener Upgrades - Phase 2'. It includes a weather table and an activity surveillance section.
- PHOTOS:** A gallery of four photos showing construction work, with a date stamp '02 21 2023'.

WEATHER	TIME	CONDITION	DUR	TEMPERATURE	PRECIPITATION	SKY	WIND
	2:00 PM	50 - 60		None	Clear	20-30	
	10:00 AM	50 - 60		None	Clear	20-30	
	8:00 AM	60 - 70		None	Clear	40-50	

Invoice Number	Invoice Date	From Company	From Vendor Contact	DC Water Company
0001	02/24/2022	Anchor Construction Corporation	Michael Flagland	District of Columbia W...
0002	03/14/2022	Anchor Construction Corporation	Michael Flagland	District of Columbia W...
0003	04/08/2022	Anchor Construction Corporation	Michael Flagland	District of Columbia W...
0004	05/18/2022	Anchor Construction Corporation	Michael Flagland	District of Columbia W...
0009	10/06/2022	Anchor Construction Corporation	Michael Flagland	District of Columbia W...
0010	11/02/2022	Anchor Construction Corporation	Michael Flagland	District of Columbia W...

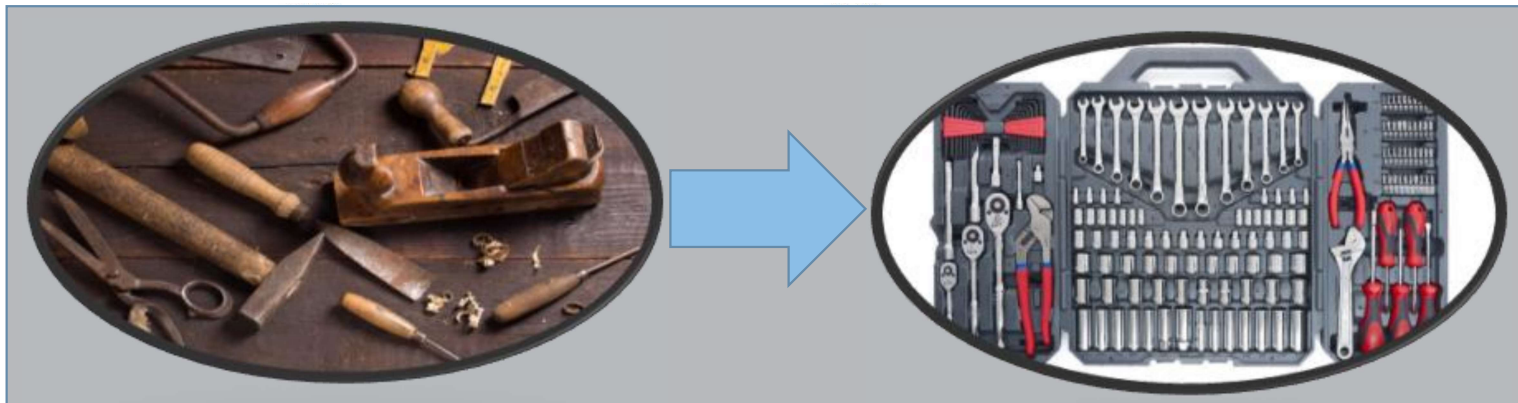
The Mission - replace CM14 with Unifier



The Mission - replace CM14 with Unifier

Over the last two years, the existing PMIS system (Contract Manager v14) has been replaced with **Unifier Oracle Cloud**, this included:

- **Developing the system architecture**, Business Processes and Workflows, to match and improve on the current system
- **Converting four separate databases** to the Unifier system
- **Testing** then migrating the existing CM14 projects, including all data and attachments into the Unifier system
- **Training** over **500 users**, including Contractors, Consultants and DC Water teams





Project Goals & Drivers

The Primary Drivers:



- CM14 software had reached its end of life and meaningful vendor support had ended



- The CM14 software was primarily contract management related rather than project management related.



- Oracle was not providing the required level of support DC Water IT needed to keep the system secure and stable.



- The concurrent ERP project replacing the financial system (Lawson) provided the opportunity to coordinate and potentially reduce duplication of some functions.

The Goals:



- Provide a holistic CIP project management tool to centralize project performance data, improving CIP execution outcomes with enhanced transparency and reporting.



- Convert the existing Contract Management data as seamlessly as possible into the new system.



- Build the Unifier system on existing DC Water CM14 processes, addressing existing weaknesses and improving functionality.



- Provide project level, end-to-end management, and a long-term replacement for the construction management software tool.



Implementation Timeline

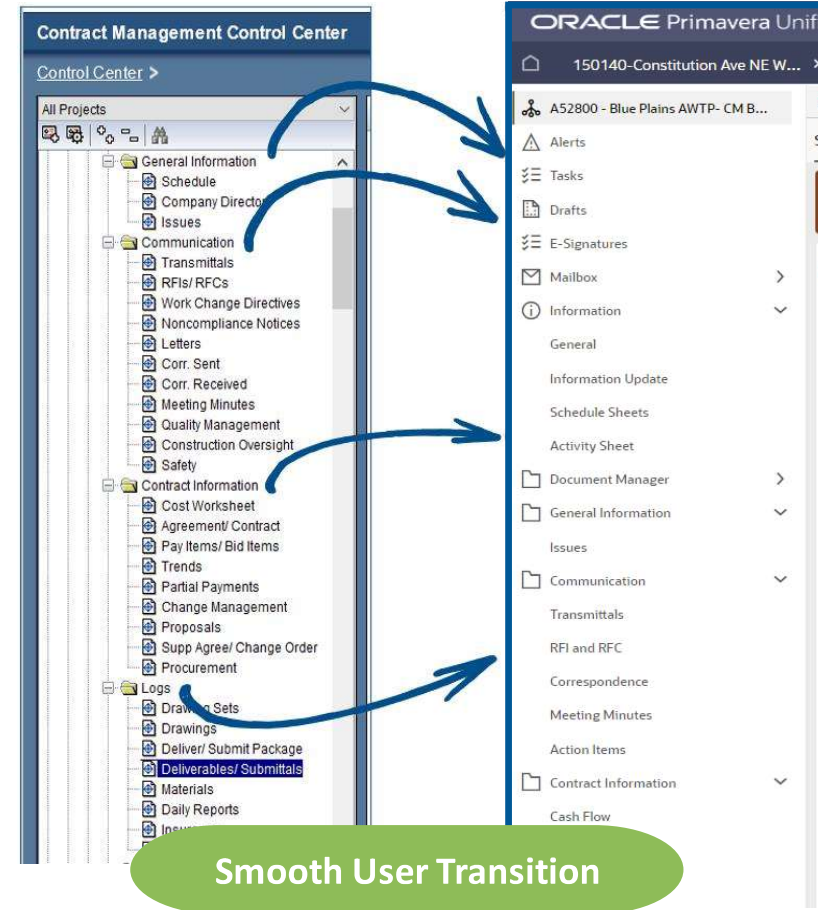
Oracle Unifier Phase 1A Implementation timeline:





Old System vs New System (CM14 vs Unifier)

- Unifier design was developed to closely align with the CM14 established layout to help stakeholder adoption
- Similar to CM14, the interface is split with a Tree-style folder structure on the left and the main page/forms on the right
- Contract Shell Templates are customized based on type:
 - **Construction**
 - **Design**
 - **Clean Rivers**
 - **DDOT and Private Developers**
 - **Lead Free DC**





Adding Payment Applications to Unifier

Oracle Unifier Phase 1B – Engineering Management Information System (EMIS) Functionality transitioned into Unifier

- During phase 1B, we took the opportunity to migrate our **EMIS** Program Services Payment tool into Unifier
- Payments are now **entered into Unifier directly by Contractors**, Reviewed and Approved by PMs, Program Services, Senior Managers, and the **Payment Application forms are generated directly from Unifier and sent to Accounts Payable to cut the checks**



Payment Forms are generated directly from Unifier, including PO # and PO Lines



dc clean RIVERS PROJECT

DC WATER
5000 Overlook Ave, S.W.
Washington, DC, 20032

Department of Wastewater Engineering
Partial Summary Payment Report

PRT Contract A - Utility Relocations
PROJECT NO: CZ13
CONTRACT NO: 200120

TO: ACCOUNTS PAYABLE
FROM: Moussa Wone, DIRECTOR

PREPARED BY: Jeff Peterson
DATE ADDED: February 22, 2022

SUBJECT: PARTIAL PAYMENT
Payment is recommended as requested by attached invoice, all as noted below:

ACCOUNT ACTIVITY CATEGORY	PO LINE NUMBER	EXPENDITURE	RETAINAGE THIS PERIOD	TOTAL THIS PERIOD WITH RETAINAGE	TYPE
CZ44130000 LTCP	PO Line 1	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	Contract
CZ44140000 CAPM	PO Line 2	\$ 0.00	\$ 0.00	\$ 0.00	Contract
CZ44170000 LPRT	PO Line 3	\$ 0.00	\$ 0.00	\$ 0.00	Contract
CZ44180000 LPRX	PO Line 4	\$ 0.35	\$ 0.35	\$ 0.35	Contract
TOTAL		\$ 1,500.35	\$ 1,500.35	\$ 1,500.35	

ACCOUNTS PAYABLE
If for any reason Accounts Payable does not pay this exactly as specified, i.e., with regard to amount and Purchase Order (P.O.) line item, please notify this office of the amount paid by P.O. line item and reason payment was not made as authorized by DETS. Also, for A/E Agreements please see consultant's cover letter for purchase order line-item numbers.

PAYMENT RECOMMENDED BY: Moussa Wone
DATE: 3/4/2022

ATTACHMENT:
200120-0
200120
200120
21110
Contract

Approved Pay App

Payment Form & Link to Attachments (all backup documentation) sent directly from Unifier to Accounts Payable



The Solution

- When replacing a well-established and critical system such as CM14, navigating the **resistance to change** and capturing end-user requirements is key to a successful implementation.
- The benefit of an experienced and deep user base was frequent and energetic engagement leading to **clearly defined needs**.
- Migration of in-flight projects' data from CM14 to Unifier was a challenge as the underlying technical architecture of the two systems is completely different. Iterative and well-coordinated validations by DCW Business and IT teams made this **transition seamless**.
- Additionally, the Covid crisis meant the project collaboration was achieved **entirely online**, with the corresponding ERP implementation (Project Zeus) and CIP re-alignment occurring in parallel also putting pressure on resources.

This was a prime example of overcoming challenges through collaboration and common understanding of goals



Success – By the Numbers

- **1.8** Terabytes of data migrated
- **363,000** Records migrated
- **200+** Projects in the system
- **43** Business Processes developed and rolled out
- **500+** Users currently in the system (including Contractors, Consultants, Engineering Planning, Design & Construction Managers, Program Services, Accounts Payable, Operations CMs, Compliance)
- **\$300 Million+** Capital Invoices managed in the Unifier system per year

2 years – Project Phase 1 started and completed during covid crisis

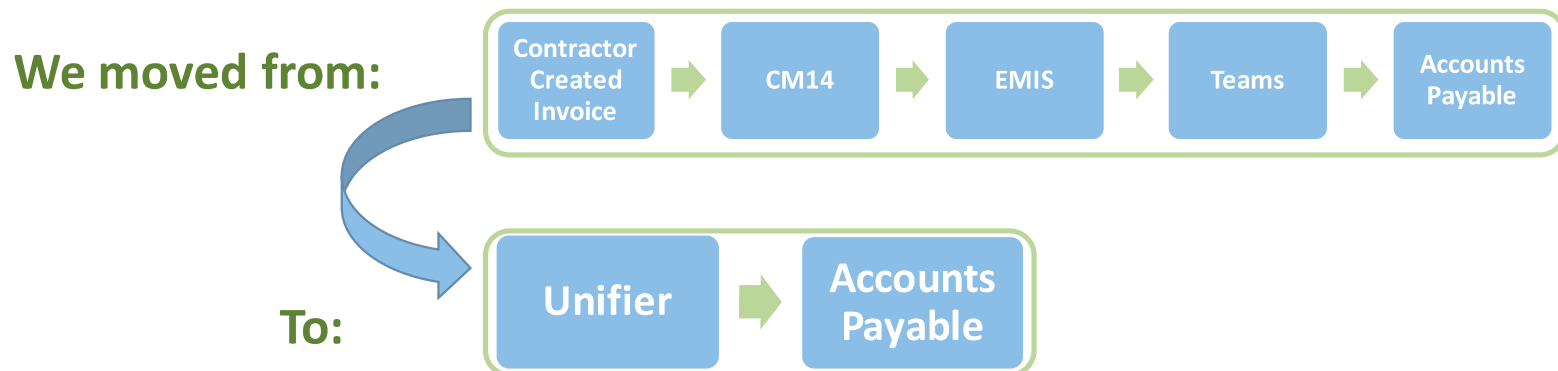
Less than \$1M - Consultant (4C) Cost of implementation kept within original budget

All original project goals met



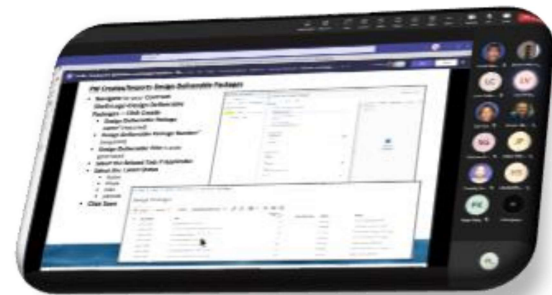
Benefits Compared to our Existing Systems

- **Single Workflow** increases accountability and adds transparency - Contractors can track their Payment Progress
- **Single data entry** increases accuracy – reduces potential for errors
- **One system** provides transparent audit trail
- Software developed around the DC Water **established Standards and processes**
- **Streamlined and reduced systems for invoicing;**



dc Accomplishments

- The initial Phase 1 of the Unifier implementation was completed in Summer of 2021, with Water & Sewer group migrated to Unifier, then Clean Rivers migrated their projects in Spring 2022.
- **All outreach and coordination efforts** with the end-users was performed by IT & our DC Water team.
- Extensive **training classes** were performed by both 4C team and Lisa Varney.
- In addition, **tailored training videos** and documentation for inspectors, contractors and design consultants were developed and made available thru the [Unifier DC Water SharePoint site](#).
- We currently have **over 500 Users in Unifier**. Aligned with our P6 scheduling tool, together these two software packages provide DC Water with a **robust, transparent Project Management Information System**.





What the Future Holds

- Further collaboration with the **Design and Planning teams** is ongoing to determine additional needs in order to encompass the **entire project cycle**
- We are working with **Compliance team** to review the potential for a Compliance Module within Unifier that meets Compliance's current needs (electronic confirmation of Subcontractors payments, certified firms participation captured, and corresponding reporting).
- We are working with the **Lead Free DC team** to develop a project specific Daily Report system for the Lead Service Replacement reporting
- Furthermore, we are working with **the Accounts Payable team** reviewing the potential to add a level of automation to invoicing in the ERP.



Leon Collister
(EMIS Lead)

Gopi Joshi
(Project Manager)

Paul Laban
(Project Sponsor)

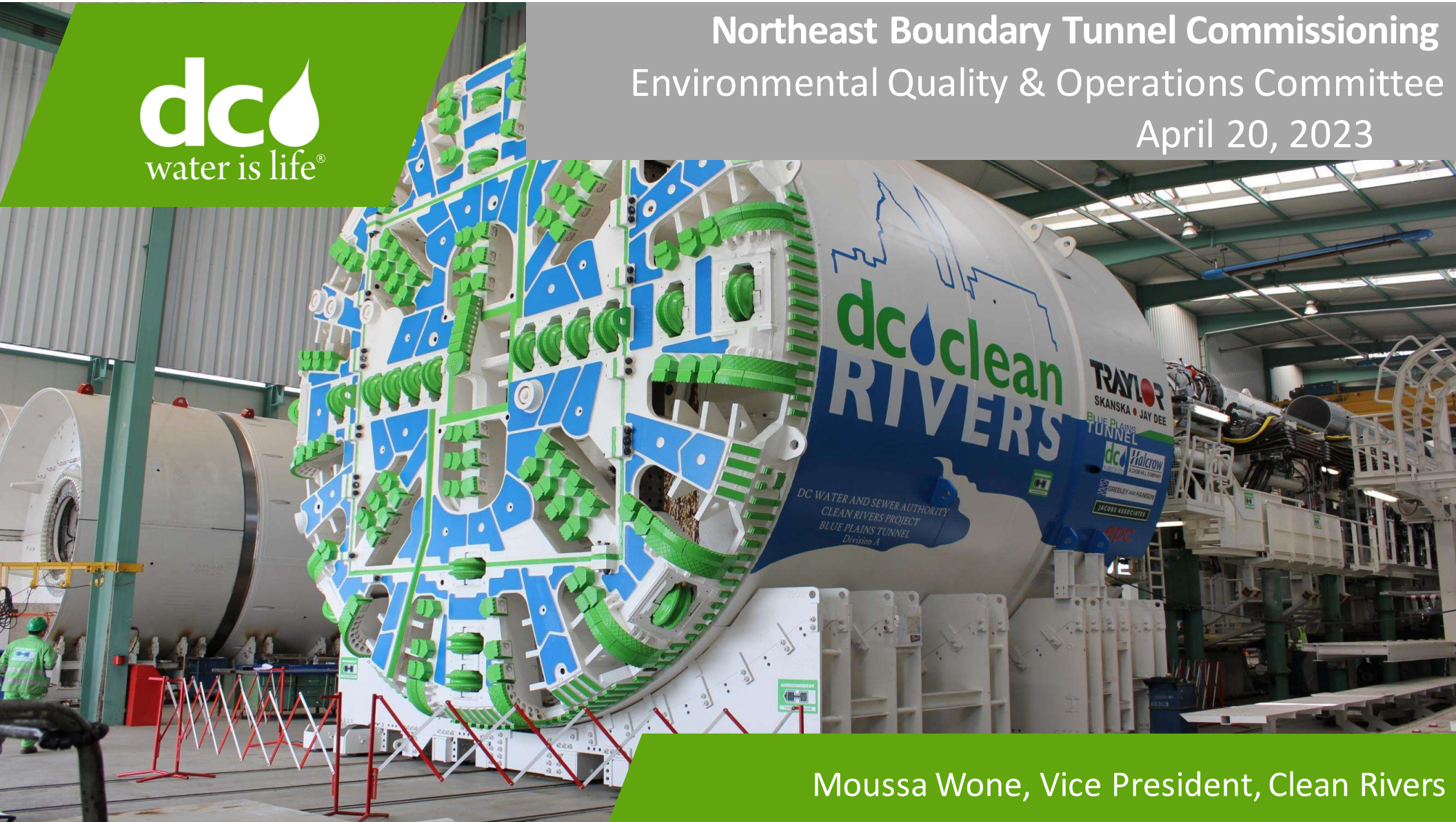
Dharanija Batchu
(Project QC)

Lisa Varney
(Unifier Manager)

Northeast Boundary Tunnel Commissioning



Northeast Boundary Tunnel Commissioning Environmental Quality & Operations Committee April 20, 2023



Moussa Wone, Vice President, Clean Rivers

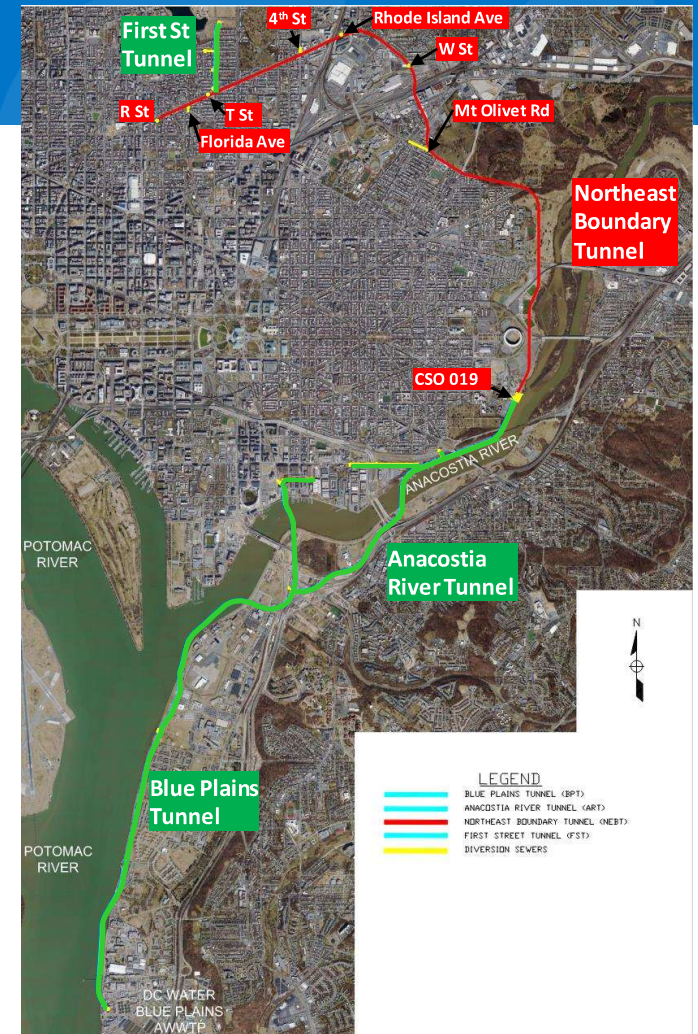
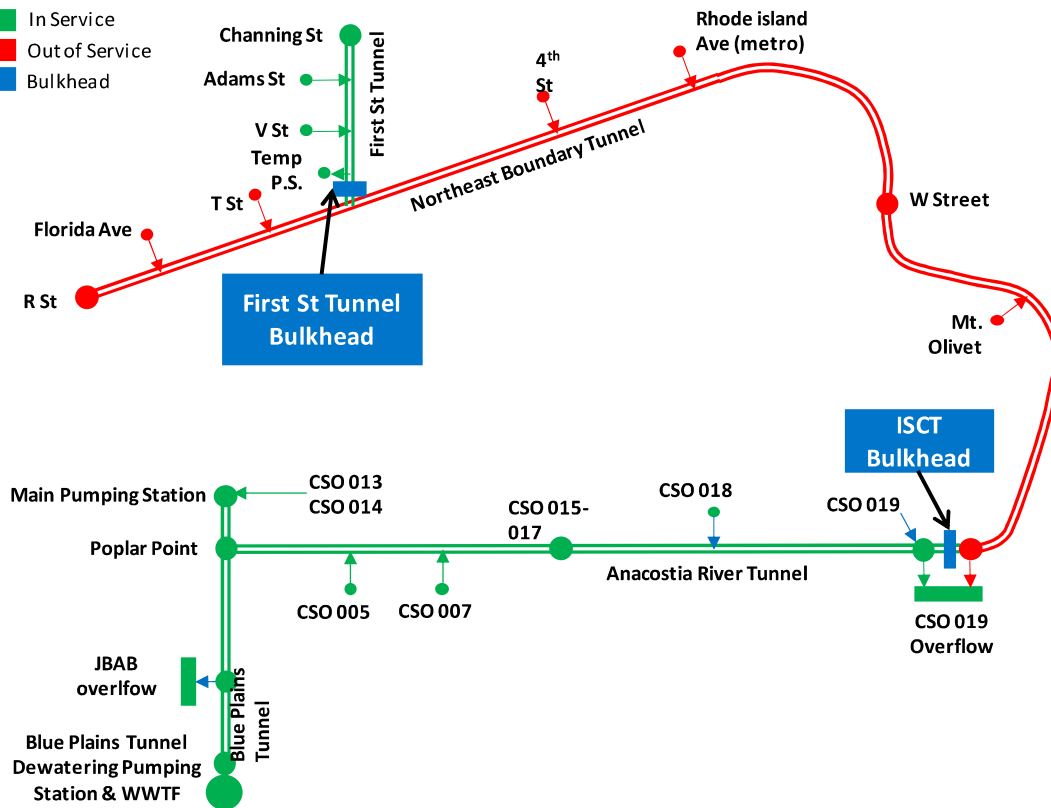
- System Layout
- Simplified Commissioning Plan
- Typical Facilities
- Commissioning Phases
- Communication Plan
- Next Steps



dc System Layout

Legend

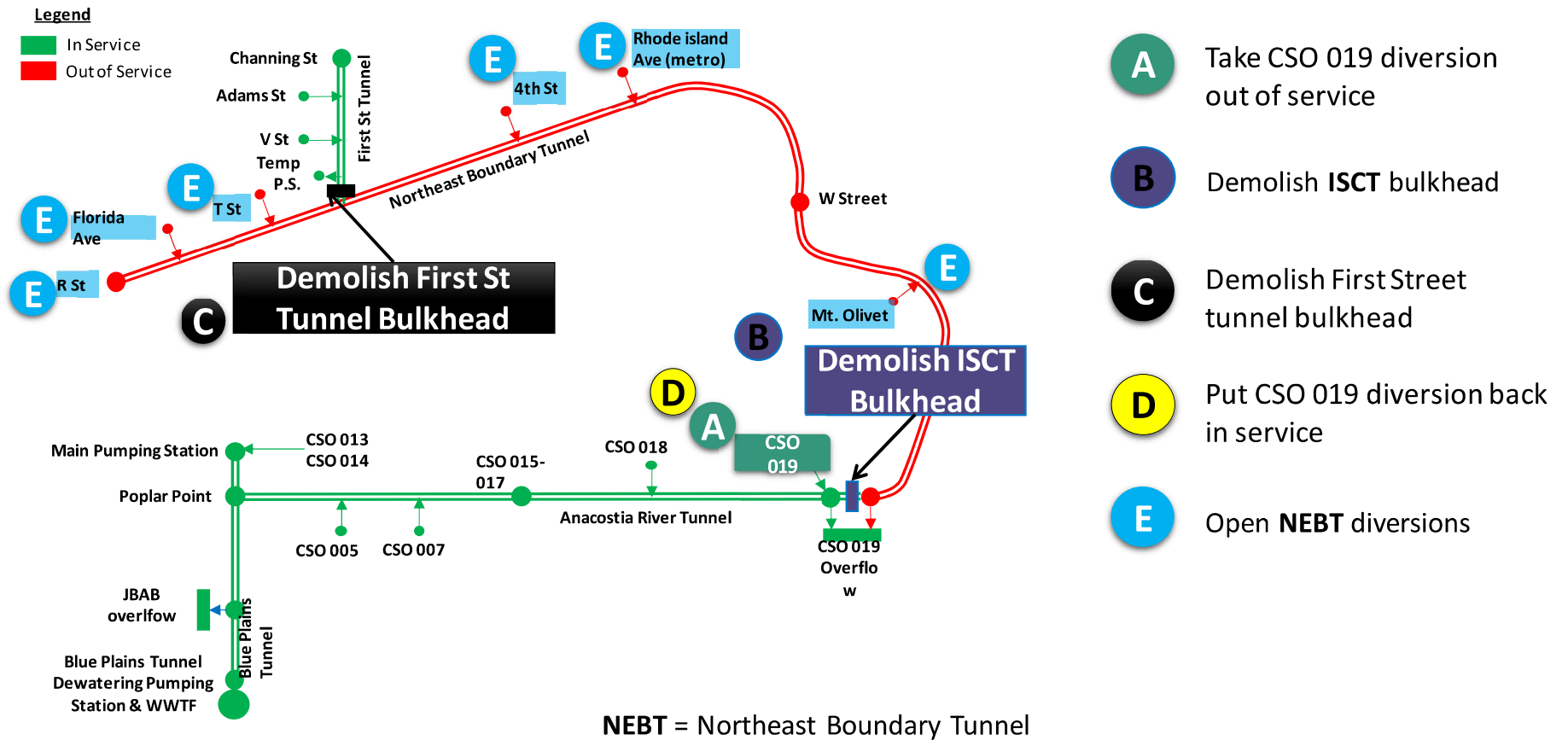
- In Service
- Out of Service
- Bulkhead



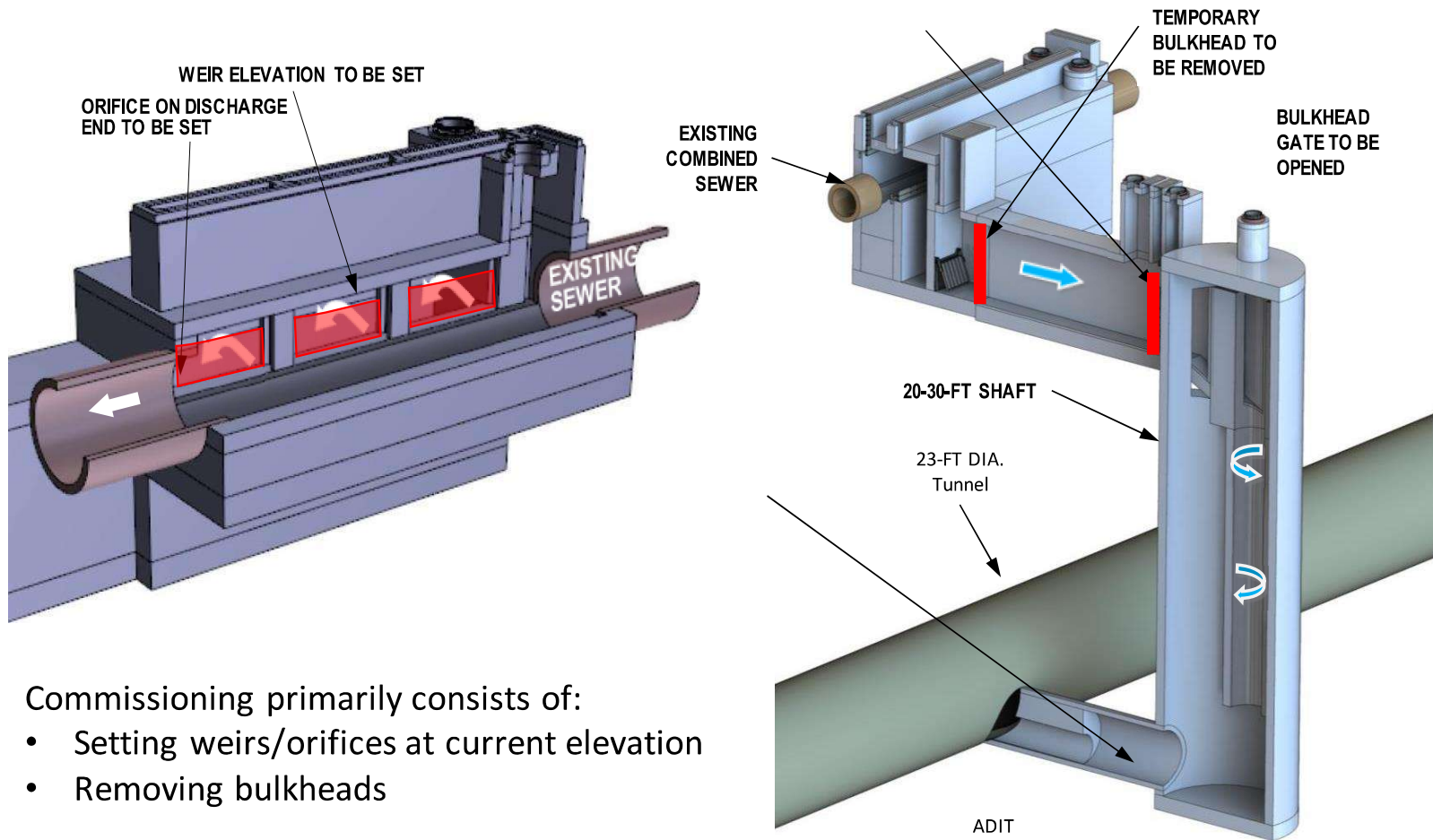
ISCT = Inter Shaft Connector Tunnel
 JBAB = Joint Base Anacostia Bolling



Simplified Commissioning Plan



dc Typical Facilities



- Commissioning primarily consists of:
- Setting weirs/orifices at current elevation
 - Removing bulkheads

Facilities to be Commissioned First

- Facilities that convey flow:
 - Inlets
 - Diversions
 - Approach channels
 - Shafts
 - Tunnels
 - Air intake and exhaust dampers

Facilities to be Commissioned Later

- Odor control facilities:
 - W Street
 - Mount Olivet
 - R Street

Summer 2023 is the target to put flow in Northeast Boundary Tunnel (during rain events)



Communication Plan

No.	Description	Plan
1	Senior Executive Team (SET)	April 10, 2023
2	Environmental Quality & Operations Committee (EQ&Ops)	April 20, 2023
3	Board of Directors	May 4, 2023
4	Political Leadership	Briefing for CM Parker (Ward 5), CM Nadeau (Ward 1), CM Pinto (Ward 2)
5	Community Leadership	Briefings for Civic Associations & ANCs : Edgewood, Brookland; ANCs 5B, 5C, 5D
6	General Public	Tunnel Forum Email/newsletter DC Water Website Press Release Notification

CM = Councilmember

ANC = Advisory Neighborhood Commission

dc Next Steps

- Meeting held with **DPSO**, **DWTO**, **DETS** to review approach on March 24, 2023
 - Regular meetings going forward as we get closer
- Clean Rivers to send letter to **EPA** about CSO 019 diversion → end of April 2023
- Clean Rivers to hold field meetings with **DPSO** crews to review facilities → April/May 2023
- Continue:
 - Service Manual submittals and finalization
 - **O&M** Training Plan development and scheduling
 - Equipment commissioning
 - Final inspection as construction is completed
 - Loading of asset data into Maximo

DETS = Department of Engineering and Technical Services

DPSO = Department of Pumping and Sewer Operations

DWTO = Department of Wastewater Treatment and Operations

EPA = Environmental Protection Agency

O&M = Operations and Maintenance

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

ACTION REQUESTED

ENGINEERING SERVICES SUPPLEMENTAL AGREEMENT:

**Non-Process Facilities Program Manager
(Joint Use)**

Approval to execute Supplemental Agreement No. 01 for \$2,542,271.39. The modification exceeds the Chief Executive Officer's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
McKissack & McKissack of Washington, Inc. 901 K Street, NW, Suite Info: 6 th Floor Washington, DC 20001 WBE	Setty & Associates International, PLLC Washington, DC DBE	2.8%
	SZ PM Consultants, Inc. Oakton, VA DBE	1.9%
	Forella Group Chantilly, VA DBE	0.6%
	Quinn Evans Washington, DC WBE	8.6%
	Mott MacDonald Arlington, VA N/A	20.1%

DESCRIPTION AND PURPOSE

Original Contract Value:	\$3,000,000.00
Value of this Supplemental Agreement:	\$2,542,271.39
Cumulative SA Value, including this SA:	\$2,542,271.39
Current Contract Value, Including this SA:	\$5,542,271.39
Original Contract Time:	1,825 Days (5 Years, 0 Months)
Time extension, this SA:	0 Days
Total SA contract time extension:	0 Days (0 Years, 0 Months)
Contract Start Date:	06-08-2021
Contract Completion Date:	06-07-2026

Purpose of the Contract:

To provide program management service for the DC Water non-process facilities program.

Original Contract Scope:

- Provide professional engineering and related services under the proposed agreement pertaining to the execution of the non-process facilities CIP. Services will include:
 - Preparing and updating master plans, facility plans, space/facilities management and associated tools, commissioning, and startup assistance, coordinating with designers, managing design-build projects, and coordinating with construction managers.
 - The program will also provide assistance to the Facilities Management Department in matters requiring program management, engineering or technical expertise pertaining to existing, newly constructed, or proposed non-process facilities with an emphasis on innovation, reliability and cost savings solutions.

Previous Supplemental Agreement Scope:

- Not Applicable.

Current Supplemental Agreement Scope:

- Provide program management services as outlined in the original agreement for additional non-process facilities program projects not included in original agreement scope. These projects have been transferred from DETS management to Facilities non-process facilities program management.

- Provide Architectural and Engineering Services needed in concept design services for the Bryant Street Pump Station Building Improvements.
- Provide Architectural, and Engineering Services needed to evaluate the existing Main Pump Station Building project and develop concept design procurement materials for the Project.

Future Supplemental Agreement Scope:

- A future Supplemental Agreement will be required for the Main & O Seawall to certify the existing condition by certified professional engineer. Anticipated value approximately \$1,900,000.

PROCUREMENT INFORMATION

Contract Type:	Cost Plus Fixed Fee	Award Based On:	Best Value
Commodity:	Engineering Design Services	Contract Number:	DCFA-504
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Facilities Management
Service Area:	Non-Process Facilities, Sanitary Sewer, Water	Department Head:	Brent Christ
Project:	HE, HJ, JB, PS, PT, SD		

ESTIMATED USER SHARE INFORMATION

Capital 100% DC User Share (CAPM) Allocation

User	Share %	Dollar Amount
District of Columbia	100.00%	\$2,111,620.30
Total Estimated Dollar Amount	100.00%	\$2,111,620.30

Multi-Jurisdiction User Facility 21 (MJ21) Allocation

User	Share %	Dollar Amount
District of Columbia	89.70%	\$ 297,142.94
Washington Suburban Sanitary Commission	10.30%	\$ 34,120.09
Total Estimated Dollar Amount	100.00%	\$ 331,263.03

DC Water Renovations (RENO) Allocation

User	Share %	Dollar Amount
District of Columbia	68.35%	\$ 67,931.74
Washington Suburban Sanitary Commission	24.75%	\$ 24,598.54
Fairfax County	4.53	\$ 4,502.28
Loudoun County & Potomac Interceptor	2.37	\$ 2,355.50
Total Estimated Dollar Amount	100.00%	\$ 99,388.06

Total Combined Allocation

User	Share %	Dollar Amount
District of Columbia	97.42%	\$2,476,694.98
Washington Suburban Sanitary Commission	2.31%	\$ 58,718.64
Fairfax County	0.18%	\$ 4,502.28
Loudoun County & Potomac Interceptor	0.09%	\$ 2,355.50
Total Estimated Dollar Amount	100.00%	\$2,542,271.39



Digitally signed by David Parker
 DN: E=David.Parker@dcwater.com, CN=David Parker, OU=Engineering, OU=WASA Users, DC=dcwasa, DC=com
 Date: 2023.04.10 13:03:45-04'00'

David Parker _____ Date
 VP of Engineering

Matthew T. Brown

Digitally signed by Matthew T. Brown
 Date: 2023.04.13 11:11:36 -04'00'

Matthew T. Brown _____ Date
 CFO and EVP
 Finance and Procurement



Digitally signed by Dan Bae
 DN: C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae
 Date: 2023.04.11 08:47:44-04'00'

Dan Bae _____ Date
 VP of Procurement

David L. Gadis _____ Date
 CEO and General Manager

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

ACTION REQUESTED

GOODS AND SERVICES CONTRACT OPTION YEAR

**BELT PRESS DEWATERING POLYMER
(Joint Use)**

This contract action is to add \$1,168,000.00 in funds to option year 3, and exercise option year 4 in the amount of \$3,384,000.00. For a combined total of \$4,552,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Polydyne, Inc. One Chemical Plant Road Riceboro, GA 31323	SUBS: N/A	PARTICIPATION: N/A
--	---------------------	------------------------------

DESCRIPTION AND PURPOSE

Base Year Contract Value:	\$1,781,700.00
Base Year Contract Dates:	05-01-2019 – 04-30-2020
Option Year 1 – Option Year 3 Value:	\$6,734,000.00
Option Year 1 – Option Year 3 Date:	05-01-2020 – 06-30-2023
Prior Modifications Value:	\$1,455,000.00
Prior Modifications Date:	01-18-2020 – 06-30-2022
Option Year 3 Add Funds Value:	\$1,168,000.00
Option Year 3 Add Funds Date:	05-01-2023 – 06-30-2023
Option Year 4 Value:	\$3,384,000.00
Option Year 4 Date:	07-01-2023 – 06-30-2024

Purpose of the Contract:

This contract is to supply and deliver belt press dewatering polymer. This polymer conditions biosolids to help remove water in the Final Dewatering Facility at Blue Plains.

Contract Scope:

In the belt press dewatering operations, the polymer is used to help remove water from biosolids after the digestion process. Dewatering biosolids improves the quality of this important co-product (biosolids) by removing water to concentrate the solids and reduce its volume, which also reduces the cost to transport biosolids to application sites.

Recent price increases contributed to depleting approved funding earlier than anticipated.

Polydyne is the only municipal wastewater polymer manufacturer in U.S. capable of meeting DC Water’s needs. Procurement will conduct market research and issue a new solicitation when appropriate.

Spending Previous Year:

Cumulative Contract Value:	05-01-2019 to 06-30-2023: \$9,970,700.00
Cumulative Contract Spending:	05-01-2019 to 03-13-2023: \$9,786,686.00

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.

No LBE/LSBE Participation

PROCUREMENT INFORMATION

Contract Type:	Good and Services	Award Based On:	Best Value
Commodity:	Dewatering Polymer	Contract Number:	19-PR-DWT-14
Contractor Market:	Open Market with Preference Points for LBE and LSBE Participation		


BUDGET INFORMATION

Funding:	Operating	Department:	Wastewater Treatment
Project Area:	Blue Plains	Department Head:	Aklile Tesfaye

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	42.74%	\$1,945,524.80
Washington Suburban Sanitary Commission	42.85%	\$1,950,532.00
Fairfax County	9.16%	\$416,963.20
Loudoun Water	4.53%	\$206,205.60
Other (PI)	0.72%	\$32,774.40
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$4,552,000.00

Aklile Tesfaye / 3/29/23
 Aklile Tesfaye Date
 VP of Wastewater Operations

 Digitally signed by Dan Bae
 DN: C=US, E=dan.bae@dowater.com,
 O=District of Columbia Water and Sewer
 Authority, OU=VP of Procurement &
 Compliance, CN=Dan Bae
 Date: 2023.03.29 15:47:15-04'00'
 Dan Bae Date
 VP of Procurement

Matthew T. Brown / 3/31/23
 Matthew T. Brown Date
 CFO and EVP of Finance and Procurement

David L. Gadis /
 David L. Gadis Date
 CEO and General Manager

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

ACTION REQUESTED

GOODS AND SERVICES CONTRACT OPTION YEAR

**INSTRUMENTATION MAINTENANCE AND REPAIR OF ELECTRICAL CONTROL EQUIPMENT
(JOINT USE)**

Approval to exercise Option Year 3 for Instrumentation Maintenance and Repair of Electrical Control Equipment in the amount of \$350,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
M.C. Dean 1765 Greensboro Station Place Tysons, VA 22102	N/A	N/A

DESCRIPTION AND PURPOSE

Base Award Contract Value:	\$450,000.00
Base Award Contract Dates:	06-01-2020 - 05-31-2021
Number of Option Years:	3
Value of Previous Modifications:	\$540,000.00
Period of Previous Modifications:	06-01-2021 – 05-31-2023
Contract Modification Value:	\$350,000.00
Contract Modification Dates	06-01-2023 – 05-31-2024

Purpose of the Contract:

This contract is for annual maintenance, repair and calibration of instrumentation control equipment supporting the Department of Process Engineering at DC Water’s Blue Plains facilities.

Contract Scope:

The Contractor shall provide services to perform Instrumentation Maintenance and Repair of Electrical Control Equipment throughout DC Water’s Blue Plains facilities.

The Contractor will provide supervision, labor, transportation, replacement parts, modifications, calibrations, installation and maintenance of instrumentation, valve actuators, control systems, Programmable Logic Controllers (PLC), Human Machine Interfaces (HMI) and other related equipment at various DC Water facilities.

Spending Previous Year:

Cumulative Contract Value:	06/01/20 - 05/31/23: \$990,000.00
Cumulative Contract Spending:	06/01/20 - 03/04/23: \$936,976.00

Contractor’s Past Performance:

According to the COTR, the Contractor’s quality of product and services, timeliness of deliverables; conformance to DC Water’s policies and contract terms and invoicing met requirements.

PROCUREMENT INFORMATION

Contract Type:	Good and Services	Award Based On:	Best Value
Commodity:	Maintenance and Repairs	Contract Number:	20-PR-DMS-01
Contractor Market:	Open market with best value		


BUDGET INFORMATION

Funding:	Operating	Department:	Process Engineering
Project Area:	Blue Plains	Department Head:	Nicholas Passarelli

STIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	42.74%	\$ 149,590.00
Washington Suburban Sanitary Commission	42.85%	\$ 149,975.00
Fairfax County	9.16%	\$ 32,060.00
Loudoun Water	4.53%	\$ 15,855.00
Other (PI)	0.72%	\$ 2,520.00
TOTAL ESTIMATED DOLLAR AMOUNT	100%	\$ 350,000.00

Aklile Tesfaye _____ /03/31/23
 Aklile Tesfaye Date
 VP of Wastewater Operations

 _____
Digitally signed by Dan Bae
 DN: C=US, E=dan.bae@dowater.com,
 O=District of Columbia Water and Sewer
 Authority, OU=VP of Procurement &
 Compliance, CN=Dan Bae
 Date: 2023.04.03 08:51:47 -04'00'
 Dan Bae Date
 VP of Procurement

Matthew T. _____
 Brown
Digitally signed by Matthew T.
 Brown
 Date: 2023.04.12 16:07:12 -04'00'
 Matthew T. Brown Date
 CFO 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

**GOODS AND SERVICES CONTRACT OPTION YEAR
BILLING METER MAINTENANCE AND DATA PORTAL
(Joint Use)**

Approval to exercise Option Years 4 and Option Year 5 for Billing Meter Maintenance and Data Portal in the amount of \$1,900,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: RJN Group Inc. 1589 Sulphur Spring Rd Suite 102 Baltimore, MD 21227	SUBS: N/A	PARTICIPATION: None
---	---------------------	-------------------------------

DESCRIPTION AND PURPOSE

Base Year Contract Value:	\$875,000.00
Base Year Contract Date:	07-01-2019 – 06-30-2020
Option Year 1 to Option Year 3 Value:	\$0.00
Option Year 1 to Option Year 3 Date:	07-01-2020 – 06-30-2023
Option Year 4 Value:	\$950,000.00
Option Year 4 Dates:	07-01-2023 – 06-30-2024
Option Year 5 Value:	\$950,000.00
Option Year 5 Dates:	07-01-2024 – 06-30-2025

Purpose of the Contract:

The purpose of this contract is to develop and maintain a web portal for the management of meter and other ancillary equipment data, routine calibration of meters and other ancillary equipment, and operation and maintenance of meters and other ancillary equipment.

Contract Scope:

Under this contract, the contractor will calibrate, operate, maintain, collect and report data from flow meters and rain gauges in various portions of DC Water’s Wastewater Collection System. On an as-required basis when authorized, the contractor will also acquire and install new metering equipment.

Other utilities in the User Jurisdiction expected to ride this contract include WSSC, Fairfax Water and Loudon County.

Spending Previous year:

Cumulative Contract Value:	07-01-2019 to 06-30-2023: \$875,000.00
Cumulative Contract Spending:	07-01-2019 to 11-30-2022: \$474,661.00

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.

No LBE/LSBE participation

PROCUREMENT INFORMATION

Contract Type:	Goods and Services	Award Based On:	Highest Rated Offeror
Commodity:	Billing Meters	Contract Number:	18-PR-DET-17
Contractor Market:	Open Market with Best Value		


BUDGET INFORMATION

Funding:	Capital Project	Department:	ETS - Planning
Service Area:	Sewer Services	Department Head:	William Elledge
Project:	GZ		


ESTIMATED USER SHARE INFORMATION

Multi-Jurisdiction Use Facility 56 (MJ 56) Allocation

User	Share %	Dollar Amount
District of Columbia	84.40%	\$1,603,600.00
Washington Suburban Sanitary Commission	11.01%	\$209,190.00
Fairfax County	3.76%	\$71,440.00
Loudoun County	0.69%	\$13,110.00
Other PI Users	0.14%	\$2,660.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,900,000.00

 Digitally signed by David Parker
 DN:
 E=David.Parker@dcwater.com,
 CN=David Parker,
 OU=Engineering, OU=WASA
 Users, DC=dcwasa, DC=com
 Date: 2023.04.04 14:38:29-04'00'

David Parker Date
 VP of Engineering and Technical Services

 Digitally signed by Dan Bae
 DN: C=US,
 E=dan.bae@dcwater.com, O=District
 of Columbia Water and Sewer
 Authority, OU=VP of Procurement &
 Compliance, CN=Dan Bae
 Date: 2023.04.05 07:46:59-04'00'

Dan Bae Date
 VP of Procurement

Matthew T. Brown Digitally signed by
 Matthew T. Brown
 Date: 2023.04.06
 15:27:55 -04'00'

Matthew T. Brown Date
 CFO 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:

**Piney Branch Sewer Rehabilitation, Phase 1
Non-Joint Use**

Approval to execute a construction contract for \$15,573,300.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Spiniello Companies 354 Eisenhower Parkway Livingston, NJ 07039 <u>Headquarters</u> Livingston, NJ 07039	Shekinah Group, LLC New Brunswick, NJ DBE	11.6%
	Traffic Services & Control, LLC Oxon Hill, MD DBE	5.5%
	Manuel Luis Construction Co., Inc. Curtis Bay, MD DBE	4.4%
	Arthur Engineering Services, LLC Laurel, MD DBE	3.9%
	S & J Service Inc Hyattsville, MD DBE	0.9%
	RAM Construction, Inc. Olney, MD WBE	5.2%
	Sunrise Safety Services Glen Burnie, MD WBE	0.8%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	\$15,573,300.00
Contract Time:	1,177 Days (3 Years)
Anticipated Contract Start Date (NTP):	07-16-2023
Anticipated Contract Completion Date:	07-15-2026
Bid Opening Date:	03-09-2023
Bids Received:	3
Other Bids Received	
Inliner Solutions, LLC	\$ 16,765,305.00
SAK Construction, LLC	\$ 25,997,455.00

Evaluation Bid Amount: \$15,573,300.00

Purpose of the Contract:

In the rehabilitation of certain sections of the Piney Branch Sewer, this project will help prolong the life of the sewer/structures. The work involved in this project will largely be performed by using trenchless methods.

Contract Scope:

- Structural rehabilitation using Geopolymer Lining System (GLS) on approximately thirteen thousand eight hundred (13,800) linear feet of combined sewer pipes of various sizes and shapes with associated internal point rehab and lateral/pipe reinstatements.
- Pipe rehabilitation using open cut method (excavation) at two (2) different locations.
- Pipe rehabilitation using internal rehabilitation method at two (2) different locations.
- Structural rehabilitation using Geopolymer Lining System (GLS) on five (5) junction chambers.

- Rehabilitation of seventy (70) existing manholes with various rehabilitation methods, including Geopolymer Lining System, step replacement, grade ring replacement, and frame and cover replacement.
- Construction of three (3) new manholes with GLS.
- Abandonment of approximately four hundred (400) linear feet of 36- inch to 51-inch diameter pipelines and one (1) junction chamber at Sherman Circle, NW within NPS property.
- Sewer bypass pumping, dewatering, erosion and sediment control, traffic control, and restoration of project site.

Federal Grant Status:

- Construction Contract is eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION


Contract Type:	Fixed Price	Award Based On:	Lowest responsive, responsible bidder
Commodity:	Construction	Contract Number:	150070
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Sewer	Department Head:	William Elledge
Project:	FW01		

ESTIMATED USER SHARE INFORMATION


User	Share %	Dollar Amount
District of Columbia	80.74%	\$ 12,573,300.00
Federal Funds	19.26%	\$ 3,000,000.00
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$ 15,573,300.00

 Digitally signed by David Parker
 DN: E=David.Parker@dcwater.com,
 CN=David Parker, OU=Engineering,
 OU=WASA Users, DC=dcwasa,
 DC=com
 Date: 2023.04.10 13:02:56-04'00'

 David Parker / Date
 VP of Engineering

Matthew T. Brown
 Digitally signed by Matthew T. Brown
 Date: 2023.04.11 18:33:47 -04'00'

 Matthew T. Brown / Date
 CFO and EVP
 Finance and Procurement

 Digitally signed by Dan Bae
 DN: C=US, E=dan.bae@dcwater.com,
 O=District of Columbia Water and Sewer
 Authority, OU=VP of Procurement &
 Compliance, CN=Dan Bae
 Date: 2023.04.11 08:47:24-04'00'

 Dan Bae / Date
 VP of Procurement

 David L. Gadis / Date
 CEO and General Manager

Fire Hydrant Update



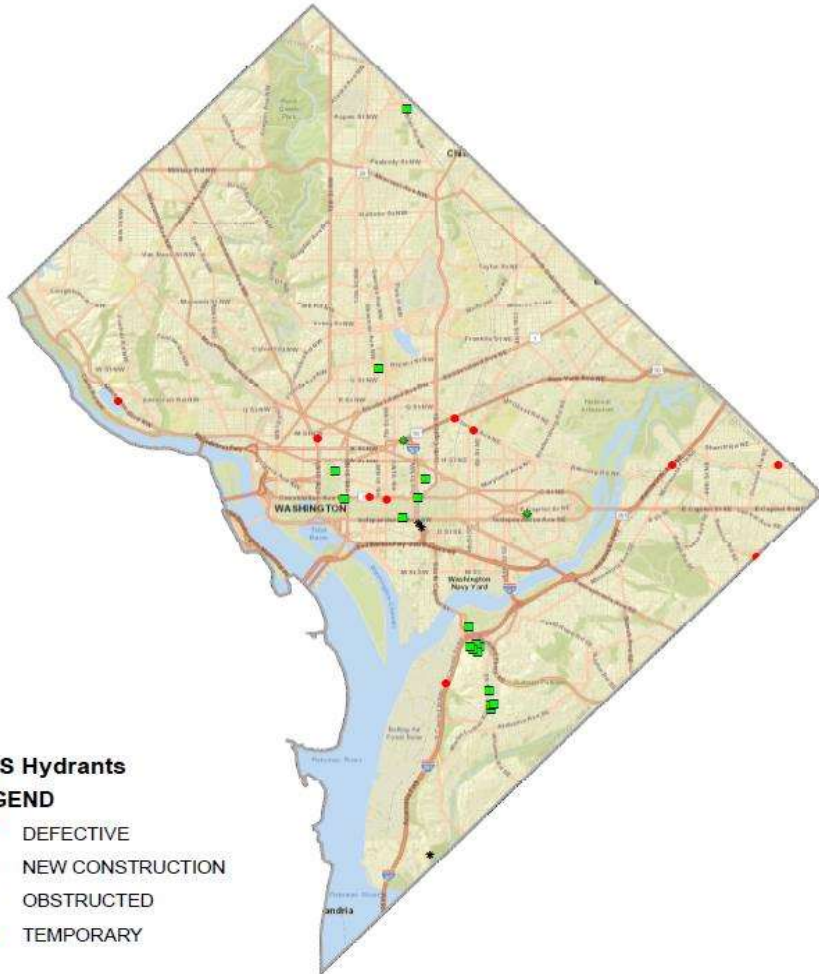
Fire Hydrant Update
Environmental Quality & Operations Committee
April 20, 2023



Sylvia Okogi, Sr. Manager, Water Operations (Acting)

Map of Public Out-of-Service Hydrants

April 03, 2023



- OOS Hydrants LEGEND**
- DEFECTIVE
 - NEW CONSTRUCTION
 - * OBSTRUCTED
 - TEMPORARY



Prepared By: Distribution Control Branch

Status Report of Public Fire Hydrants for DC Water Services Committee - April 3, 2023

	January Cmte. Report (January 3, 2023)	February Cmte. Report (February 1, 2023)	March Cmte. Report (March 1, 2023)	April Cmte. Report (April 3, 2023)
Public Fire Hydrants:	9,835	9,837	9,840	9,842
In Service:	9,788	9,805	9,803	9,810
Marked Out-of-Service (OOS)	47	32	37	32
OOS - defective requiring repair/replacement	25	14	17	10
% OOS requiring repair or replacement (DC Water goal is 1% or less OOS)	0.25%	0.14%	0.17%	0.10%
OOS - due to inaccessibility or temp construction work	22	18	20	22

Note: The number of public hydrants in the DC Water system fluctuates; this number fluctuates as hydrants are added and removed during development or construction activities as well as at the request of the Fire Dept.

Breakdown of Public Fire Hydrants Out-of-Service (OOS) as of April 3, 2023 32

Breakdown of Defective	0-7 Days	8-14 Days	15-30 Days	31-60 Days	61-90 Days	91-120 Days	> 120 Days	Total
Hydrant Needs Repair/Investigation	1	0	0	0	0	0	0	1
Needs Valve Investigation for Low Flow/Pressure or Shut Test for Replacement	0	0	0	0	0	0	0	0
Needs Replacement	0	0	1	1	0	1	6	9
Defective								10

Breakdown of Others	0-7 Days	8-14 Days	15-30 Days	31-60 Days	61-90 Days	91-120 Days	> 120 Days	Total
Temporarily OOS as part of operations such as a main repair	0	1	1	2	0	0	13	17
Construction* - OOS	0	0	0	1	0	0	1	2
Obstructed Hydrant - OOS hydrant due to operation impeded by an obstruction.	0	0	0	0	0	0	3	3
Others								22

*Fire hydrants not accessible due to construction activities. Also includes new hydrants which have not yet been commissioned or old hydrants which will be abandoned as part of ongoing construction projects.

Water Quality Update



Water Quality Update
Environmental Quality & Operations Committee
April 20, 2023



TAP WATER IS CHEAP • SAFE • ECO-FRIENDLY

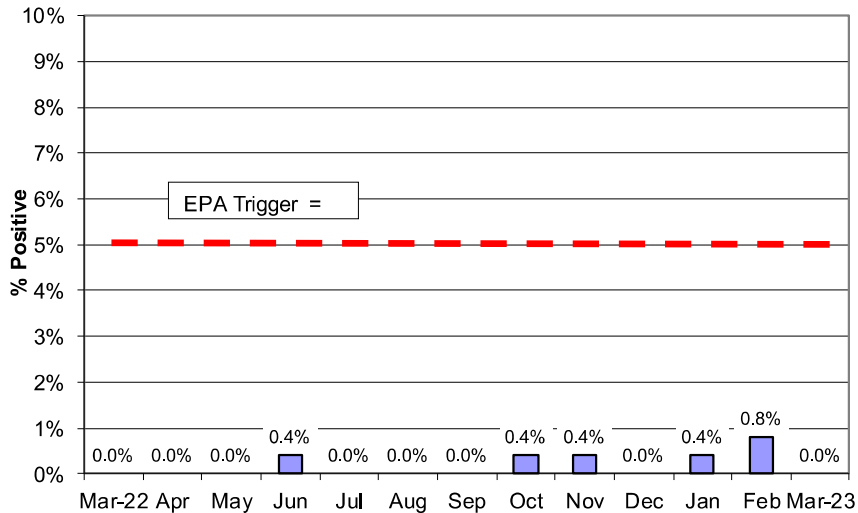
Maureen Schmelling Director, Water Quality



Drinking Water Quality Update

Total Coliform Rule

Monthly Results



- 240 minimum samples collected each month at over 50 government and commercial buildings

Lead and Copper Rule

Jan-June 2023	1 st Draw	2 nd Draw
90 th Percentile, parts per billion (ppb)	1.5	2.0
Number of samples	51	50
Number of samples > 15 ppb	0	0

- 1st draw is a one-liter sample collected after minimum six hours of stagnation (no-water use period)
- 2nd draw is a one-liter sample collected after the 1st draw and filling and dumping three liters, resulting in between the 5th to 6th liter of water which is water that stagnated in the service line.