DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
Board of Directors
Meeting of the
Environmental Quality and Operations Committee

Thursday, December 16, 2021
9:30 a.m.

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+1 202-753-6714,,236631037#
Phone Conference ID: 236 631 037#

9:30 a.m.	**I.**	**Call to Order**	Howard Gibbs Vice Chair
	II.	**Roll Call**	Linda Manley Board Secretary
9:35 a.m.	**III.**	**AWTP Status Update**	Aklile Tesfaye

1. BPAWTP Performance

9:45 a.m.	**IV.**	**Proposal to Amend Regulations to Revise Pretreatment Discharge Standards and Non-Wastewater Flows Requirements**	

1. Action Item:
   a. **Recommendation of Approval** – Publication of the Final Amendments to the Discharge Standards and Non-Wastewater Flows Requirements (21 DCMR § 1501) to revise the discharge standards as required by EPA.

Elaine Wilson

9:55 a.m.	**V.**	**Action Items**	Joel Grosser/Kishia Powell

Joint Use

1. None.

Non-Joint Use

1. Contract No.: 10140 – Sewer Inspection Services, RedZone Robotics
2. Contract No.: 180030 - Small Diameter Water Main Replacement, Spiniello Companies
3. Contract No.: N/A – Martin Luther King Jr. Avenue, SE Phase II - From South Capitol Street, SE to 4th Street, SE DC, Inc., DDOT
4. Contract No.: 190020 - Sanitary Sewer Lateral Replacement Contract for FY20 – FY22, Anchor Construction Corporation

10:10 a.m.	**VI.**	**Water Operation Updates**	
		1. Fire Hydrants/Map	Marlee Franzen
		2. Water Quality	Maureen Schmelling
10:20 a.m.	**VII.**	**Other Business / Emerging Issues**	
10:25 a.m.	**VIII.**	**Executive Session***	Howard Gibbs Vice Chair
11:00 a.m.	**IX.**	**Adjournment**	

Follow-up Items from Prior Meetings:

1. Director, DCW Resource Recovery: To provide an in-depth presentation to the Committee on Bloom and the Sierra Club report at a future committee meeting **[Will be discussed at Dec 16th Mtg)**

The 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: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(2); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4)(A); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security 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); proprietary matters under D.C. Official Code § 2-575(b)(11); train and develop members of a public body and staff under D.C. Official Codes § 2-575(b)(12); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.

Wastewater Operations

Blue Plains Advanced Wastewater Treatment Plant – November 2021

Accomplishments and Priorities

Employee Training to Improve Reliability of Rotating Equipment

This past month expert trainers from bearing manufacturer SKF USA and Motion Industries presented four 1-day training sessions on bearing maintenance and technology to a total of 61 participants. The trainees included mechanics and mechanical foremen, reliability shop technicians, electricians, and process engineers. The content of the training was custom coordinated to meet DC Water maintenance needs. Topics included: basics of bearings and their applications; mounting arrangements; lubrication and seals; and alignment, condition monitoring and failures. The training opened with background theoretical information and then broke out into three hands-on stations to deliver critical information on installing and maintaining rolling element bearings in rotating machinery.

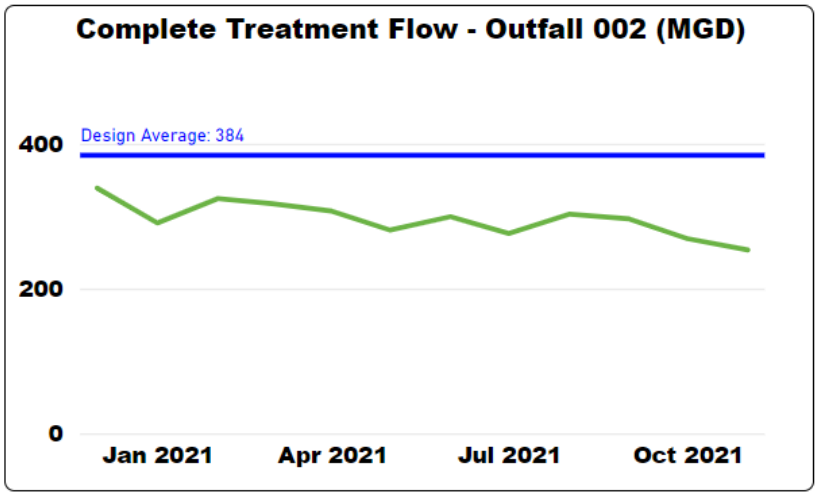
Figure 1. Employee training to improve equipment reliability

The primary course objective was to empower staff with skill sets to improve the service life of rolling bearings, which improves the reliability of rotating equipment. Maintenance personnel gained knowledge to improve their skills, and learned proper care of bearings, essential for keeping critical process equipment performing reliably and efficiently, for permit compliance and fiscal responsibility.

Operational Performance

Blue Plains Complete Treatment Performance: The plant performance for the month of November 2021 was excellent with all effluent parameters well below the seven-day and monthly NPDES permit requirements. The monthly average flow through complete treatment (Outfall 002) was 253 MGD. There was no treated captured combined flow directed to Outfall 001 from the Wet Weather Treatment Facility (WWTF).

Figure 2. Monthly Average Influent Flow Trend to Complete Treatment (MGD)



Wet Weather Treatment Facility (WWTF) Performance: In November 2021, a total of approximately 10 MG of combined wet weather flow, captured in the tunnel system, was treated through the plant. There was no measured overflow that took place this month (Table 1).

Table 1. Wet Weather Treatment Facility (WWTF) Performance

	November 2021*	Calendar Year 2021 (Through November)
Total Precipitation, inches (DCA gauge)	0.99	43.00
Total Volume Captured in the Anacostia Tunnel, MG	10	2,364
Measured Overflow, MG	0	86
Percent Captured**	100%	97%
Screenings and Grit Capture, tons	206	2,892

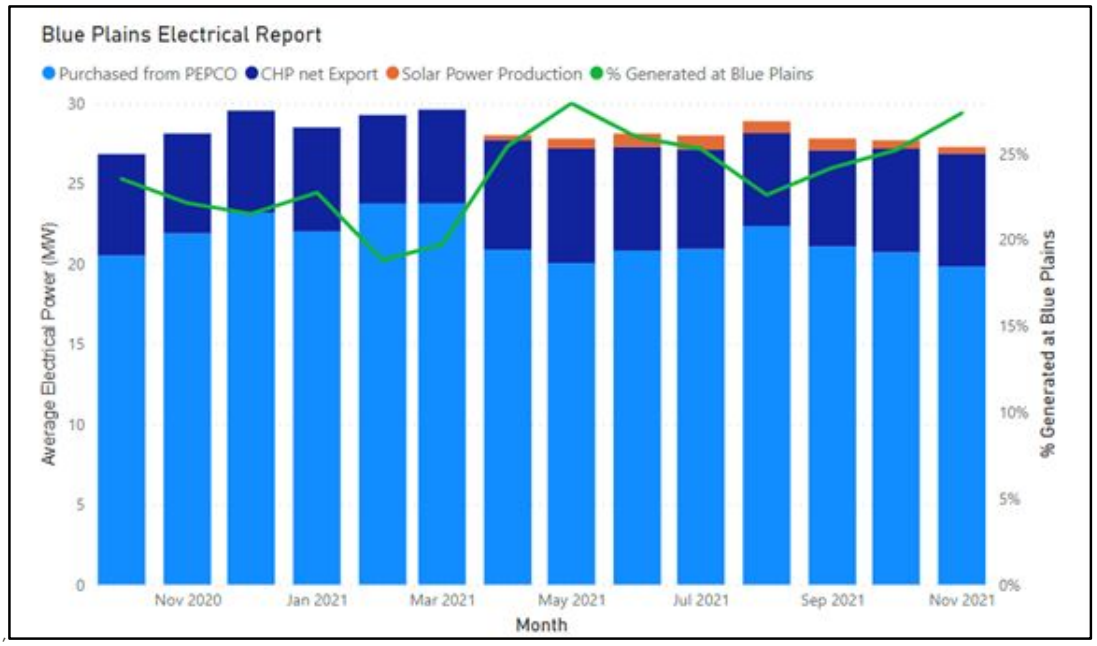
Note: *Based on preliminary data.

**Expected Capture ~80%

Operational Performance

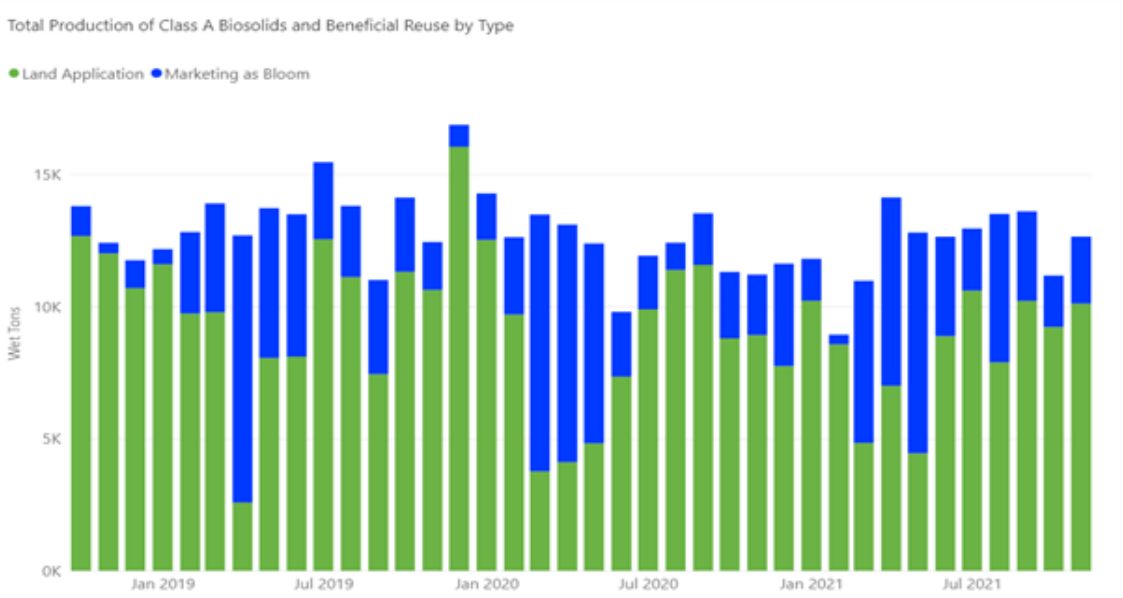
Blue Plains Electrical Energy Use and Generation: The Combined Heat and Power (CHP) facility produced an average of 8.3 megawatts (MW) of renewable electricity during this month. Contractually, the CHP performance is evaluated based on the net electricity export to the Blue Plains grid, which averaged 7.0 MW as shown in Figure 3 below. The solar system produced an additional 0.43 MW of power on average. The total electricity consumption at Blue Plains averaged 27.2 MW during the month of November. Out of total electrical consumption, 27.3% of electricity was generated onsite between CHP and solar panels, which surpassed the plant performance metrics of 20%. DC Water purchased an average of 19.8 MW of electricity from PEPCO as shown in the graph below.

Figure 3. Blue Plains Energy Report – Average Electricity Purchased from PEPCO (light blue), Net Export from CHP (dark blue), Solar Power Production (orange) and % of Total Plant Electricity Use Generated Onsite (green line on right Y-axis)



Class A Biosolids Production: In November, biosolids hauling averaged 421 wet tons per day (wtpd). All biosolids produced during the month met Class A Exceptional Quality (EQ) requirements required by EPA. Fecal Coliform values on daily process monitoring samples remained below the 1,000 MPN*/gram required for Class A biosolids - consistent with the low levels measured historically.

*Most Probable Number (MPN) per gram measures statistical probability of number of organisms

Operational Performance	**Bloom Marketing**: The average quantities of Class A biosolids transported and applied on farms and the quantities marketed as Bloom are shown on the graph below. In November, Blue Drop sold 2,534 wet tons of Bloom (Figure 4). The remaining 10,111 wet tons not sold into the market were land applied through DC Water (through Blue Drop) and WSSC contracts. *Figure 4. Tons of Class A Biosolids Produced - October 2018 to November 2021 Marketed as Bloom (blue) and Land Applied (green)* 
Progress Report	**Water Quality & Pretreatment Summary** ○ In November, staff completed all of the permit required industrial user inspections and compliance monitoring for the calendar year as well as the quarterly plant sampling requirements for local limits and low-level Polychlorinated Biphenyl (PCB). ○ A public hearing was held November 10, 2021, on the new FY22 sewer rate of $3.03/Ccf proposed for high flow filter backwash. This new rate was developed to accommodate the anticipated 2.8 MGD filter backwash discharge from the Washington Aqueduct in early 2022. The 45-day public comment period ended November 15, 2021, and no comments were received, so the Notice of Final Rulemaking is on track to be published in the DC Register in December. ○ The Metro Washington Council of Governments (MWCOG) Pretreatment Workgroup, led by Elaine Wilson (Manager, Water Quality and Pretreatment), also finalized proposed revisions to the IMA Operating Agreement #5 this month which includes changing the prohibition on out of service area trucked waste to a conditional acceptance if agreed to by all Intermunicipal Agreement (IMA) parties on a case-by-case basis and monitoring for and prohibiting all trucked waste containing measurable PCBs. Staff will present proposed updates to the MWCOG Regional Committee on December 16, 2021.

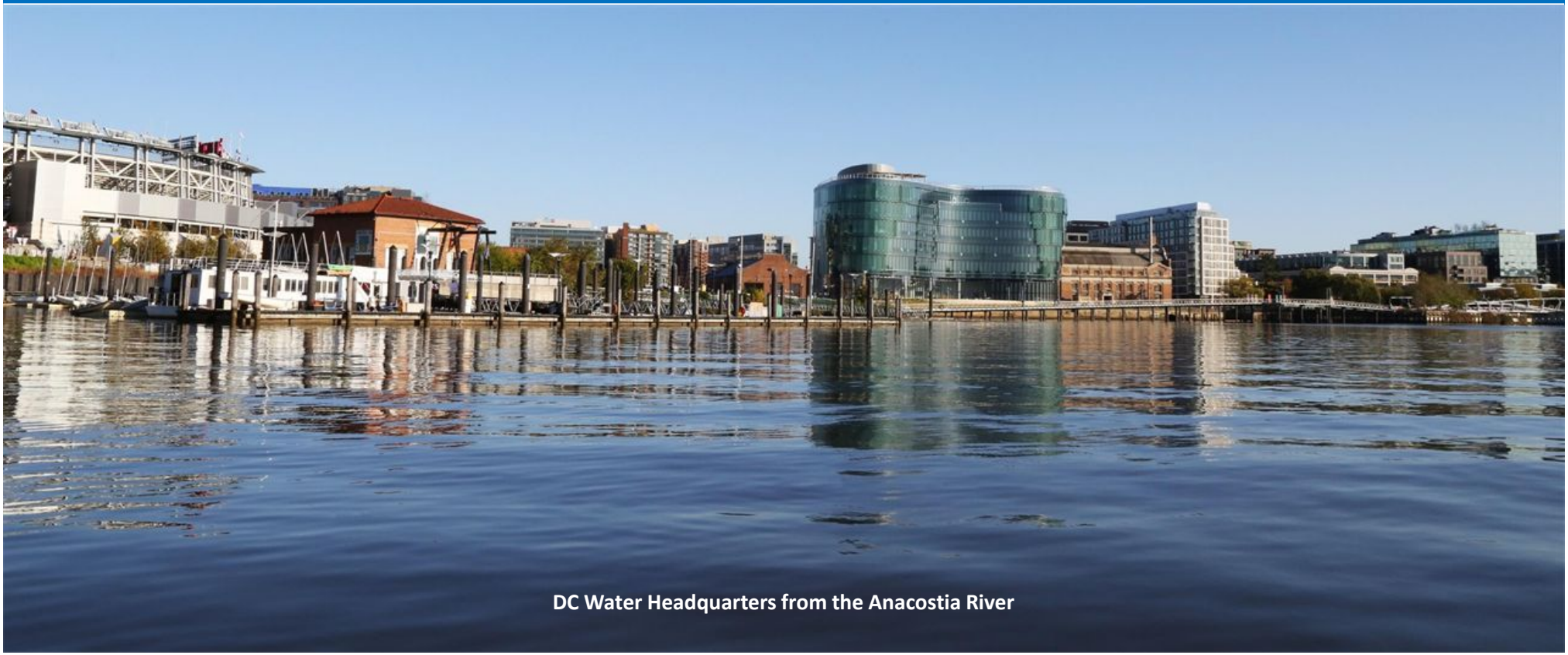
Amend Regulations to Revise Pretreatment Discharge Standards and Non-Wastewater Flows Requirements

Attachment B

Presentation to Environmental Quality and Operations Committee, December 16, 2021

Presented by Elaine Wilson, Manager, Water Quality and Pretreatment

District of Columbia Water and Sewer Authority



DC Water Headquarters from the Anacostia River

Purpose

- Seek committee's recommendation to the full board for approval to publish the final rulemaking to modify the Pretreatment Discharge Standards and Sewer Use Requirements in 21 DCMR Chapter 15 § 1501.

Background

- The EPA requires DC Water to evaluate and update the local limits or discharge standards by conducting a headworks analysis with every reissuance of our NPDES permit to ensure protection of DC Water facilities, resources, and receiving waters from industrial discharges.
- As required by our NPDES permit, within 6 (six) months of acceptance of the headworks analysis by the EPA, DC Water shall adopt the revised local limits and notify all contributing municipalities of the need to adopt the revised local limits.
- DC Water conducted the headworks analysis in 2019 and submitted the evaluation to EPA on February 28, 2020. EPA provided comments on the headworks evaluation on July 15, 2021, and DC Water submitted a revised headworks analysis to EPA on July 19, 2021. EPA accepted the revised limits on August 3, 2021. Regulations must be adopted no later than February 3, 2022.

Discharge Standards Changes

- The proposed discharge standards include more stringent limits for arsenic, molybdenum, silver, and cyanide; less stringent limits for cadmium, mercury, and nickel; and no changes for copper, lead, zinc, petroleum oil and grease, and PCB limits. A new limit is also proposed for selenium.

- All currently permitted industrial dischargers meet the new discharge standards, but many non-permitted industrial/commercial dischargers may not be able to meet the new molybdenum limit until they change water treatment chemicals in their cooling tower blowdown. DC Water will need to roll out an education campaign targeted to these dischargers and this pollutant source.

- The following changes to specific prohibitions were also proposed:
  - § 1501.4(c) (2) - change prohibition on solids having a linear dimension greater than one inch to one-half inch to protect sewer pumping operations. This change will require a new Wastewater System Regulation Amendment Act and update of the DC Code 8-105.06.
  - § 1501.4(k) (4) – clarify prohibition on waste from a marine holding tank to include waste from a mobile vehicle. This change would help ensure that mobile vehicles are disposing of their waste properly in accordance with regulations.
  - § 1501.9 – change the upper pH limit for continuous pH monitoring to 12.0 instead of 12.5, since 12.5 is considered hazardous.

Non-Wastewater Flow Changes

- The following minor changes to non-wastewater flow requirements in § 1501.14 (now § 1501.16) were also proposed to clarify the following:
  - (a) uncontaminated non-wastewater flows are not prohibited from discharge to the sanitary sewer if they result from an industrial process to allow for reuse options for clear water flows, and cooling waters have been deleted from the list of flows prohibited from the sanitary sewer; and
  - (c) MS4 sewer availability distance requirements are for **permanent** stormwater connections to make it clear that temporary connections can go to a combined sewer if available no matter the distance to the MS4 sewer.

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Public Engagement

- The Notice of Proposed Rulemaking (NOPR) was published in the DC Register on October 22, 2021.
- The proposed rulemaking was emailed to permitted industrial users and environmental consultants on November 1, 2021.
- The proposed rulemaking was shared with the MWCOG and pretreatment staff from the user jurisdictions on October 26, 2021.
- Public comment period ended November 20, 2021, 30 days after publication of the NOPR.
- No comments were received on the proposed rulemaking.

Next Steps

Management Recommendations or Conclusion

Management recommends that the committee recommend the following to the full Board for approval:

- Action Item 1 – publication of the final amendments to the Discharge Standards and Non-Wastewater Flows Requirements regulations (21 DCMR § 1501) to revise the discharge standards as required by EPA.

Next Steps

- Schedule for adoption of the new discharge standards must meet the following milestones:
- Jan. 6, 2022 – BOD approval to publish NOFR
- Jan. 21, 2022 – Publish NOFR, request jurisdictions adopt regulations, and notify EPA to proceed with their public comment period

Action Item X: Recommend Board approval to amend 21 DCMR § 1501 discharge standards and non-wastewater flows requirements.

Amend regulations to incorporate revisions to DC Water's local limits accepted by EPA Region III as follows:

CHAPTER 15, DISCHARGES TO WASTEWATER SYSTEM, of Title 21 DCMR, WATER AND SANITATION, shall be amended to read as follows:

1. Paragraph (c)(2) and (k), Subsection 1501.4 are amended to read as follows:

1501.4 Specific Prohibitions: No User shall introduce the following pollutants into the District's wastewater system:

(c) Solid or viscous substances in amounts which may cause, or contribute to obstruction of the flow in a sewer or otherwise interfere with the operation of the District's wastewater system, including, but not limited to:

(1) Substances which may solidify or become viscous at temperatures above thirty-two degrees Fahrenheit (32° F) or zero degrees Centigrade (0° C);

(2) Solids have any linear dimensions greater than one-half inch (1/2 in.);

(k) Unless DC Water specifically authorizes any substance including, but not limited to:

(1) Septic tank sludge;

(2) Restaurant grease;

(3) Waste from a fuel service station;

(4) Waste from a marine or mobile vehicle holding tank; and

(5) Waste from a portable toilet;

2. Paragraph (a), Table I, and paragraphs (b) and (c), Subsection 1501.8 are amended to read as follows:

1501.8 The following shall apply to discharges into the wastewater system:

(a) No User shall discharge into the wastewater system arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, silver, zinc, cyanide, oil and grease (petroleum), or Polychlorinated Biphenyls (PCBs) in

concentrations greater than those listed in Table I of this subsection unless authorized in writing by DC Water in a Wastewater Discharge Permit;

TABLE I

SUBSTANCE	DAILY MAXIMUM CONCENTRATION, mg/L
Arsenic (T)	0.20
Cadmium (T)	0.10
Copper (T)	2.3
Lead (T)	1.0
Mercury (T)	0.035
Molybdenum (T)	0.19
Nickel (T)	3.4
Selenium	0.25
Silver (T)	1.2
Zinc (T)	3.4
Cyanide (T)	0.31
Oil and Grease (petroleum)	100
PCBs (T)(1)	Non-detect

(T) - Total
(1) - Total PCBs shall be measured using an EPA-approved Method in 40 CFR Part 136 with a reporting limit of at least one thousandth milligram per liter (0.001 mg/L).

(b) Industrial Users may be required to monitor other pollutants, including, but not limited to, chromium, total toxic organics (TTO), and any other pollutants as required by DC Water;

(c) For purposes of this subsection, "daily maximum concentration" shall be determined using grab samples for pH, cyanide, total phenols, oil and grease, sulfide, and volatile organic compounds. For all other pollutants, the daily maximum concentration shall be determined using twenty-four (24) hour flow-proportional composite samples collected over the daily operation, unless time-proportional composite or other composite sampling or grab sampling is representative of the discharge and is authorized by DC Water in accordance with § 1507.6; and

3. Subsection 1501.9 is amended to read as follows:

1501.9 Where an Industrial User continuously measures the pH of a wastewater discharge and either voluntarily or pursuant to a requirement in a permit, the Industrial User shall maintain the pH of such wastewater within the range set forth in the permit, except excursions from the range are authorized subject to the following limitations:

(a) No excursion below five (5.0) or above twelve (12.0) is authorized;

(b) The total time during which the pH values are outside the permitted range of pH values shall not exceed seven (7) hours and twenty-six (26) minutes in any calendar month; and

(c) No individual excursion from the permitted range of pH values shall exceed sixty (60) minutes.

4. Subsections 1501.14, 15, and 16 are amended, and paragraphs 1501.17 and .18 are added to read as follows:

1501.14 [RESERVED]

1501.15 [RESERVED]

1501.16 The following shall apply to discharges of non-wastewater flows to the District's wastewater system:

(a) All uncontaminated non-wastewater flows that do not result from an industrial process, including all storm waters (including snow melt), surface waters, ground waters, subsurface drainage (including foundation, footing, and under drainage), roof drainage, irrigation waters, diverted stream flows, or spring waters shall not be discharged to sewers specifically designated as sanitary sewers;

(b) Whenever DC Water determines that a User is discharging uncontaminated non-wastewater flows to a sewer specifically designated as sanitary sewer, DC Water shall notify the User and require such discharge to be connected to the storm sewer system or natural outlet at the expense of the User, in accordance with District laws and regulations;

(c) For permanent connections, if there is no separate storm sewer within one hundred feet (100 ft.) of the property line of a residential property or two hundred fifty feet (250 ft.) of a commercial property, the uncontaminated non-wastewater flows may be discharged to the combined sewer system, if authorized in writing by DC Water through approval of a District of Columbia Department of Consumer and Regulatory Affairs (DCRA) Construction Permit; and

(d) Where combined sewers are provided, DC Water may authorize the discharge of storm water to the combined sewer system provided that:

(1) Where a DCRA Construction Permit is required, the post-development peak storm water discharge to the combined sewer for the twenty-four (24) hour two (2) and fifteen (15) year frequency

storm events shall be equal to or less than the peak discharge for the predevelopment condition; and

(2) The provisions of subparagraph (d)(1) shall not apply to:

(A) Additions, or modifications to existing single family residential structures, detached garages, sheds, swimming pools or similar improvement; and

(B) Construction or grading operations or both that do not disturb more than five thousand square feet (5,000 sq. ft.) of land area, unless such construction or grading operation is part of an approved subdivision plan;

(e) A User may petition the General Manager to reconsider DC Water's determination that their uncontaminated non-wastewater flows are discharging to a sewer specifically designated as sanitary sewer, by notifying the General Manager in writing no later than fifteen (15) days after the date of the notice issued pursuant to § 1501.16(b). The petition shall include all documents and data in support of the petition;

(f) Upon receipt of the petition for reconsideration, the General Manager shall investigate DC Water's determination, review the supporting documentation provided, and notify the User of the results of the determinations of the General Manager; and

(g) A User may appeal the determinations of the General Manager by filing a petition for an administrative hearing within fifteen (15) days of the date of receipt of the notice issued pursuant to § 1501.16(f). This petition shall be filed in accordance with the requirements set forth in § 1519 and 21 DCMR § 412.

1501.17 All Industrial Users shall comply with National pretreatment regulations in 40 C.F.R. Part 403 and the applicable National Categorical Pretreatment Standards set forth in 40 C.F.R. Chapter I, Subchapter N, Parts 405 through 471.

1501.18 When wastewater subject to a Categorical Pretreatment Standard is mixed with wastewater not regulated by the same Categorical Pretreatment Standard, DC Water shall impose an alternate limit in accordance with 40 C.F.R. § 403.6(e).

5. Paragraph 1509.5(a) is amended to read as follows:

1509.5 The TDA Permit may be issued under the following conditions:

(a) The discharge consists entirely of treated or untreated non-wastewater flows or other approved wastewater discharges and is being discharged to the

combined sewer system or consists of contaminated non-wastewater flows or approved wastewater discharges to the sanitary sewer system in conformance to § 1501.16(a);

6. Section 1599 is amended to revise the definition for the phrase "non-wastewater flows" to read as follows:

Non-wastewater flows – discharges that do not result from an industrial process, which include storm waters (including snow melt), surface waters, ground waters, subsurface drainage (including foundation, footing, and under drainage), roof drainage, irrigation waters, diverted stream flows, and spring waters.

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

ACTION REQUESTED

GOODS AND SERVICES CONTRACT AWARD

SEWER INSPECTION SERVICES
(Non-Joint Use)

Approval to execute contract award for Sewer Inspection Services contract for three (3) year base plus two (2) option years in the total amount of $ 5,858,000.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:		PARTICIPATION:
RedZone Robotics, Inc 91 43rd Street, Suite 250 Pittsburgh, PA 15201	Arthur Engineering Services Laurel, MD	DBE	DBE - 22%
	Sunrise Safety Services Glen Burnie, MD	WBE	WBE - 10%
	Traffic Services & Control, LLC Oxon Hill, MD	WBE	

DESCRIPTION AND PURPOSE

Base Period Contract Value:	$3,258,000.00
Base Contract Period:	3 Years
No. of Option Years	2
Option Period Total Value	$2,600,000.00
Total Contract Value	$5,858,000.00
Anticipated Contract Period	1-10-2022 – 1-09-2027

Purpose of the Contract:

The Department of Pumping & Sewer Operations requires a qualified vendor to perform video inspection and assessment of all small, local sewers (approximately 4,000,000 linear feet) within DC Water's Service Area. The sewers range in size from 8-inch to 12-inch in diameter. This condition assessment work will inform both operations and maintenance activities, as well as capital investment planning and prioritization.

Contract Scope:

The expected productivity is approximately 500,000 linear feet per year until complete. All data shall be stored in a NASSCO compliant database. Services may also include traffic control and video inspection and assessment of manholes. All services shall be performed in accordance with the relevant standards and specifications set forth by the National Association of Sewer Service Companies (NASSCO) including:

- CCTV Inspection of Sewers
- Cleaning of Sewer Mains
- Cleaning and CCTV Inspection of Building Sewer
- Sewer Manhole and Structure Inspection
- Traffic Maintenance and Protection

PROCUREMENT INFORMATION

Contract Type:	Fixed Unit Rate	**Award Based On:**	Sole Source
Commodity:	Professional Services	**Contract Number:**	10140
Contractor Market:	Sole Source		

BUDGET INFORMATION

Funding:	Operating	**Department:**	Pumping & Sewer Operations
Service Area:	Local Sewer Assessment	**Department Head:**	Kenrick St. Louis

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	$658,000.00
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%**	**$658,000.00**

BUDGET INFORMATION

Funding:	Capital	**Department:**	Pumping & Sewer Operations
Service Area:	Sanitary Sewer	**Department Head:**	Kenrick St. Louis
Project:	QY and QZ		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	$ 5,200,000.00
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%**	**$ 5,200,000.00**

Kenrick St. Louis / 12/7/2021
Kenrick St. Louis Date
VP of Pumping and Sewer Operations

Dan Bae
C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae
2021.12.07 14:53:17-05'00'
_____/_____
Dan Bae Date
VP of Procurement and Compliance

Matthew T. Brown Digitally signed by Matthew T. Brown Date: 2021.12.08 13:58:08 -05'00'
_____/_____
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:

Small Diameter Water Main Replacement – 15B (Non-Joint Use)

Approval to execute a construction contract for $14,673,300.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:		PARTICIPATION:
Spiniello Companies 354 Eisenhower Parkway Livingston, NJ 07039	S & J Service, Inc. Hyattsville, MD	DBE	20.0%
	M. Luis Products, LLC. Silver Spring, MD	DBE	12.0%
	RAM Construction, Inc. Olney, MD	WBE	6.0%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	$14,673,300.00
Contract Time:	461 Days (1 Year 3 Months)
Anticipated Contract Start Date (NTP):	01-20-2022
Anticipated Contract Completion Date:	04-26-2023
Bid Opening Date:	11-09-2021
Bids Received:	6
Other Bids Received	
Capitol Paving of DC Inc.	$15,512,964.00
Fort Myer Construction Corp.	$15,959,436.00
Sagres Construction Corp.	$16,371,590.00
Civil Construction LLC	$16,819,833.00
Anchor Construction Company, Inc.	$18,487,733.00

Purpose of the Contract:

Replacement of small diameter water mains that have experienced failures, or have a history of low water pressure, or water quality issues across various locations within the District of Columbia.

Contract Scope:

- Replace 4.15 miles of water mains ranging from three (3) inches to sixteen (16) inches in diameter and associated valves and appurtenances.
- Replace water services two (2) inches in diameter and smaller in public and private space as needed.
- Replace curb stop / curb stop box, meter box and penetration through building wall and connection to first fitting inside the building including installation of a shut-off valve and pressure reducing valve.
- Provide permanent pavement and surface restoration.

Federal Grant Status:

- Construction contract is anticipated to be funded in part from a Water Infrastructure Finance and Innovation Act (WIFIA) loan.
- Construction contract is funded in part by Federal grant.

PROCUREMENT INFORMATION

Contract Type:	Unit Price	**Award Based On:**	Lowest responsive, responsible bidder
Commodity:	Construction	**Contract Number:**	180030
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Engineering and Technical Services
Service Area:	Water	**Department Head:**	Mark Babbitt (Acting)
Project:	GR, BW		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	20.00%	$2,934,660.00
Federal Funds	80.00%	$11,738,640.00
Washington Suburban Sanitary Commission	0.00%	$0.00
Fairfax County	0.00%	$0.00
Loudoun County & Potomac Interceptor	0.00%	$0.00
Total Estimated Dollar Amount	**100.00%**	**$14,673,300.00**

Salil M Kharkar / December 6, 2021
Salil M Kharkar / Date
Senior Technical Advisor to COO

Dan Bae / December 6, 2021
Dan Bae, VP / Date
Procurement and Compliance

Matthew T. Brown / December 7, 2021
Matthew T. Brown / Date
CFO and EVP
Finance and Procurement

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

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

ACTION REQUESTED

PARTICIPATION IN DDOT PROJECT:

DDOT – Martin Luther King Jr. Avenue, SE Phase II
From South Capitol Street, SE to 4th Street, SE

(Non-Joint Use)

Approval to participate in DDOT's project to reconstruct Martin Luther King Jr. Avenue, SE Phase II from South Capitol Street, SE to 4th Street, SE under the terms of the 2002 Memorandum of Agreement (MOA) between District of Columbia Department of Transportation (DDOT) and DC Water for an amount up to $2,753,000.00. This amount exceeds the General Manager's approval authority.

PARTY INFORMATION

PARTY:	SUBS:	PARTICIPATION:
District Department of Transportation 55 M Street, SE, Suite 400 Washington, DC 20003	DBE and WBE fair share objectives will follow DDOT goals.	

DESCRIPTION AND PURPOSE

Value, Not-To-Exceed:	$2,753,000.00
Time:	730 Days (2 Years, 0 Months)
Anticipated Start Date:	June 15, 2022
Anticipated Completion Date:	June 15, 2024

Purpose of DC Water's Participation:

Replacement of small diameter water mains that have experienced failures, or have a history of low water pressure, or water quality issues within the District of Columbia in conjunction with DDOT project.

Scope of DC Water's Participation:

- Replace 0.72 miles of water mains ranging from four (4) inches to twenty (20) inches in diameter and associated valves and appurtenances.
- Replace water services two (2) inches in diameter and smaller in public and private space as needed.
- Replace curb stop / curb stop box, meter box and penetration through building wall and connection to first fitting inside the building including installation of a shut-off valve and pressure reducing valve.

Federal Grant Status:

- Work is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	MOA	**Award Based On:**	N/A
Commodity:	Design and Construction	**Contract Number:**	N/A

BUDGET INFORMATION

Funding:	Capital	**Department:**	Engineering and Technical Services
Service Area:	Water	**Department Head:**	Mark Babbitt (Acting)
Project:	KG		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	$ 2,753,000.00
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%**	**$ 2,753,000.00**

Salil M Kharkar

Digitally signed by Salil M Kharkar
DN: dc=com, dc=dcwasa, ou=WASA Users, ou=Waste Water Operations, cn=Salil M Kharkar, email=Salil.Kharkar@dcwater.com
Date: 2021.12.06 16:13:06 -05'00'

Salil Kharkar Date
Senior Technical Advisor to COO

Dan Bae
C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae
2021.12.07 10:26:24-05'00'

Dan Bae Date
VP Director of Procurement

Matthew T. Brown

Digitally signed by Matthew T. Brown
Date: 2021.12.10 13:31:23 -05'00'

Matthew T. Brown Date
CFO and EVP
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:

Sanitary Sewer Lateral Replacement Contract for FY20 – FY22 (Non-Joint Use)

Approval to execute Change Order No. 001 for $5,000,000.00. The modification exceeds the General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:		PARTICIPATION:
Anchor Construction Corporation 2254 25th Place NE Washington, DC 20018	S&J Services, Inc. Hyattsville, MD	DBE	29.9%
	AJK Enterprise LLC Washington, DC	DBE	2.2%
	R&R Contracting Utilities, Inc. Olney, MD	WBE	3.8%
	Acorn Supply & Distributing White Marsh, MD	WBE	2.3%

DESCRIPTION AND PURPOSE

Original Contract Value:	$9,971,935.00	
Value of this Change Order:	$5,000,000.00	
Cumulative CO Amount, including this CO:	$5,000,000.00	
Total Contract Value, including this CO:	$14,971,935.00	
Original Contract Time:	1095 Calendar Days	(3 Years)
Time extension, this CO:	0 Calendar Days	
Total CO contract time extension:	0 Calendar Days	
Contract Start Date (NTP):	10-01-2019	
Contract Completion Date:	09-30-2022	
Cumulative CO % of Original Contract:	50.14%	
Contract completion %:	72.87%	

Purpose of the Contract:

To provide Indefinite Delivery and Indefinite Quantity (IDIQ) emergency and scheduled rehabilitation to the sewer lateral system on an as-needed basis during normal work hours, after-hours, weekends, and holidays. This Contract allows DC Water to strategically utilize a combination of in-house and contractor crews to respond to emergency conditions impacting the sewer lateral system and address scheduled system rehabilitation work as needed.

Original Contract Scope:

Work will be accomplished under a series of Task Orders. Each Task Order will identify the scope of work, deliverables, compensation, and schedule for performing the task.

Typical work scope includes but is not limited to:

- Emergency Repair Work of Sanitary Sewer Laterals
- Chemical Root Treatment of Sanitary Sewers
- Sewer Lateral Reinstatement Connection to CIPP
- MainSewer Lateral Liner -CIPP
- Sewer Lateral CCTV Inspection

- General Cleaning of Sewer Laterals
- Replace/Extend/Reconnect Building Sewer Lateral/Connection Pipe 4-Inch thru and including 12-inch Diameter PVC
- Add or Replace Building Sewer Cleanout Pipe
- Add or Replace Street Wye or Thimble with Wye Saddle
- Any other contingent items that are deemed necessary

Previous Change Order Scope:
N/A

Current Change Order Scope:
The increase in the contract by 43% from FY20 to FY21 is related to an increase in sewer lateral replacements performed by the Sanitary Sewer Lateral Replacement Contractor. Due to the pandemic safety precautions, our in-house crews were advised not to enter homes. The restriction impacted our regular investigation routine of entering the residence to perform investigation. This required the installation of additional cleanouts (by the contractor) at the property line so that an investigation could be made to determine if the problem was on the public or private side further increasing cost.

PROCUREMENT INFORMATION

Contract Type:	Unit Price	**Award Based On:**	Lowest responsive, responsible bidder, with preference
Commodity:	Construction	**Contract Number:**	190020
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	**Department:**	Sewer Services
Service Area:	Sanitary	**Department Head:**	Kenrick StLouis
Project:	M9		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	$5,000,000.00
Federal Funds	0.00%	$0.00
Washington Suburban Sanitary Commission	0.00%	$0.00
Fairfax County	0.00%	$0.00
Loudoun County & Potomac Interceptor	0.00%	$0.00
Total Estimated Dollar Amount	**100.00%**	**$5,000,000.00**

Kenrick StLouis / December 9, 2021
Kenrick StLouis / Date
VP of Pumping and Sewer Operations

Dan Bae / December 9, 2021
Dan Bae, VP / Date
Procurement and Compliance

Matthew T. Brown / December 9, 2021
Matthew T. Brown / Date
CFO and EVP
Finance and Procurement

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

Status Report of Public Fire Hydrants for DC Water Services Committee - December 6, 2021

	September Cmte. Report (Sept. 07, 2021)	October Cmte. Report (Oct. 04, 2021)	November Cmte. Report (Nov. 04, 2021)	December Cmte. Report December. 06,2021
Public Fire Hydrants:	9,810	9,810	9,811	9,811
In Service:	9,751	9,751	9,737	9,751
Marked Out-of-Service (OOS)	59	59	74	60
OOS - defective requiring repair/replacement	26	40	53	30
% OOS requiring repair or replacement (DC Water goal is 1% or less OOS)	**0.27%**	**0.41%**	**0.54%**	**0.31%**
OOS - due to inaccessibility or temp construction work	33	19	21	30

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 December 6, 2021 60

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	0	1	0	0	0	2	3	6
Needs Valve Investigation for Low Flow/Pressure or Shut Test for Replacement	0	0	0	0	0	0	6	6
Needs Replacement	1	4	2	1	4	0	6	18
Defective								**30**

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	9	0	0	0	1	1	14	25
Construction* - OOS	0	0	0	0	0	0	2	2
Obstructed Hydrant – OOS hydrant due to operation impeded by an obstruction.	0	0	0	0	0	0	3	3
Others								**30**

**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.*

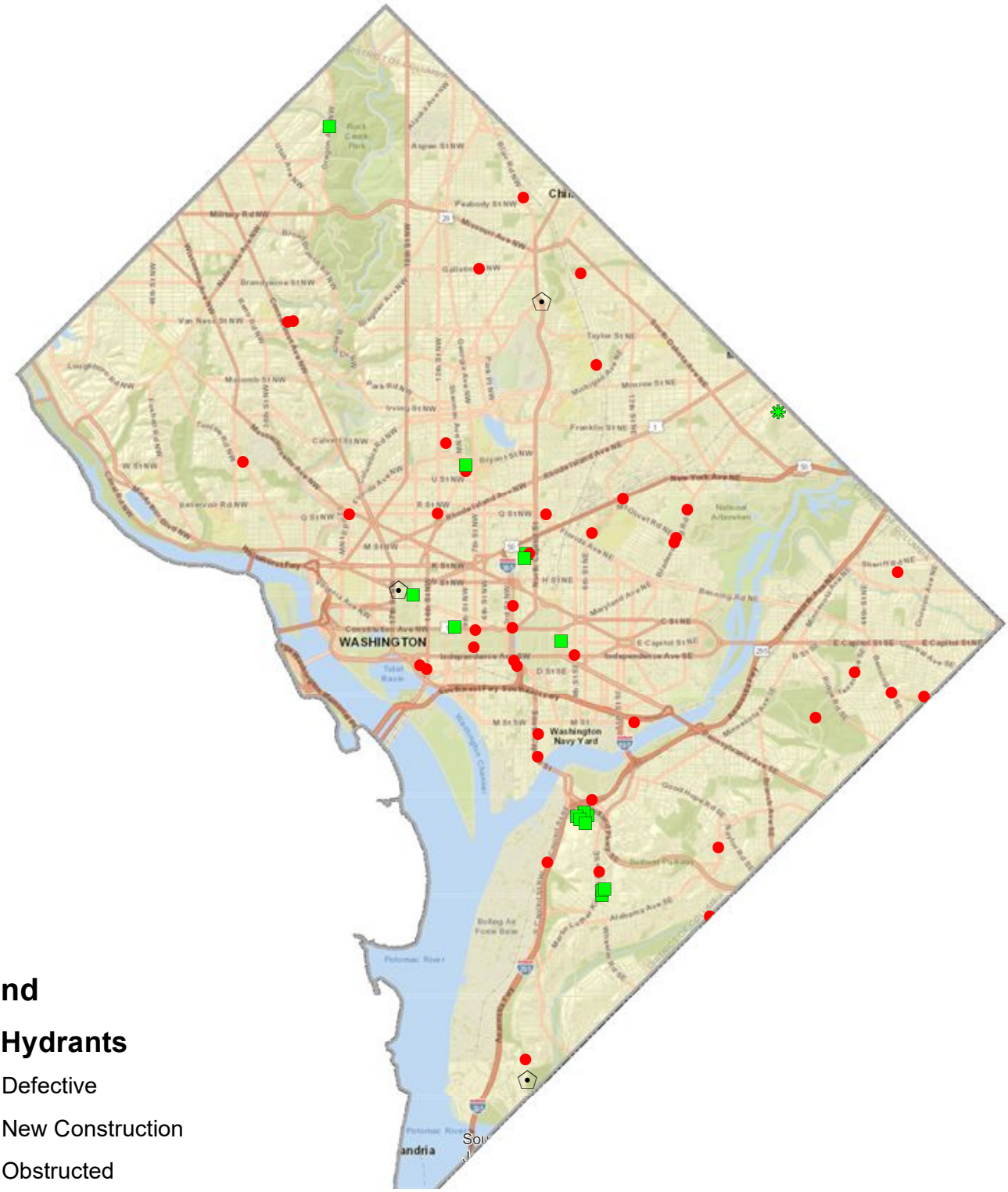
Status of Private Fire Hydrants-Based on FEMS Inspection Reporting

Private Hydrants: 1,294

- **In Service: 1,160**
- **Out-of-Service (OOS): 134**

Map of Public Out-of-Service Hydrants

December 06, 2021



Legend

OOS Hydrants

- Defective
- New Construction
- Obstructed
- Temporary

Status Report for EPA Drinking Water Regulated Monitoring
December 6, 2021

Total Coliform Rule Update

DC Water collected 250 samples in November 2021 and one was positive for total coliform (0.4%). All repeat samples were negative.

Lead and Copper Rule Update

DC Water distributed 189 sample kits to customers between July and November and received 101 valid compliance samples. Table 1 shows the results received to date. Table 2 describes the locations with lead results greater than 15 ppb.

Table 1. LCR Lead Samples Results

	2nd Semester 2021	
	1st Draw	2nd Draw
90th Percentile, ppb	2.6	7.2
Number of Samples	96	95
Number of Samples > 15 ppb	3	4

Table 2. Homes with Lead Results Greater than 15 ppb

Home	Pipe Material	Lead (ppb)		Iron (ppb)	
		1st Draw	2nd Draw	1st Draw	2nd Draw
5510 Kansas Ave NW	Full Lead Service Line	25.7	25.9	509	152
1408 DECATUR ST NW	Full Lead Service Line	11.6	23.0	60	386
6611 1st St NW	Full Lead Service Line	1.5	35.9	49	194
318 14th Pl NE	Full Lead Service Line	111	182	18	27
1505 Buchanan St NW	Full Lead Service Line	46.1	9.2	111	55