

**DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Board of Directors**

*Meeting of the
Environmental Quality and Operations Committee*

*HQO-125 O Street SE, Washington DC 20003
Thursday, December 19, 2019
9:30 a.m.*

- I. **Call to Order** Adam Ortiz
Chair
- 9:30 a.m. II. **AWTP Status Update** Akile Tesfaye
 - 1. BPAWTP Performance
- 9:45 a.m. III. **DC Clean Rivers Project –
Green Infrastructure Update** Seth Charde
- 10:00 a.m. IV. **Lead Pipe Replacement Assistance Program** Gian Cossa
- 10:15 a.m. V. **Action Items** Joel Grosser/Len Benson

Joint Use

- 1. Contract Number: 15-PR-WWT-53A – Supply and Delivery of Ferric Chloride, Carter & Carter
 - 2. Contract Number: 19-PR-DWT-21A – Supply and Delivery of Methanol, Colonial Chemicals
 - 3. Contract Number: 20-PR-DFM-18 – Temporary Staffing Services, KLSL Consulting
 - 4. Contract Numbers: GS35F0119P and GS11T08BJD6001 – Telecommunication Services, Verizon
 - 5. Contract Number: DCFA 503 - Wastewater Treatment Program Manager II, AECOM Services of DC
 - 6. Contract Number: 190010 - Progressive Design Build – Rehab of the PI Between MH31 and MH30, Ulliman Schutte Construction, LLC
- 10:30 a.m. VI. **Water Distribution** Jason Hughes
 - 1. Coliform Testing
 - 2. LCR Compliance Testing
 - 3. Fire Hydrant Upgrade Program
 - a. Status Report of Public Fire Hydrants
 - b. Out of Service Fire Hydrant Map
 - 10:40 a.m. VII. **Other Business / Emerging Issues**

10:45 a.m. VIII. Executive Session*

11:00 a.m. IX. Adjournment

Adam Ortiz
Chair

* 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.

Follow-up Items from Prior Meetings:

1. EVP, Ops & Engr, DC Water: Provide a briefing to the Committee regarding preventative and corrective maintenance programs on water, storm and sanitary sewer pump stations also including performance of DC Water's SCADA system. **[Target: January 2019]**
2. Manager, Green Infrastructure, DC Water: Conduct a robust discussion with the Committee regarding per/acre costs of developing, operating and maintaining grey vs. green infrastructure. **[On Current Agenda]**
3. Senior Director, Water Operations: Provide an update regarding the total number of Public Fire Hydrants in service. **[On Current Agenda]**
4. Sr.VP, CIP Project Delivery: Provide an update regarding existing bid evaluation process, including Contractor compliance with MBE/WBE participation goals and historical performance meeting the goals. **[Target: January 2019]**



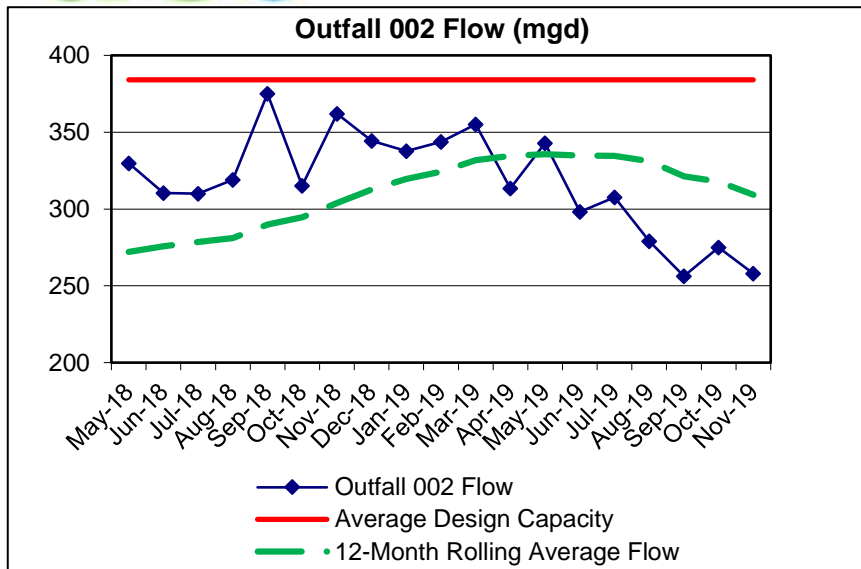
Blue Plains Advanced Wastewater Treatment Plant Performance Report

Environmental Quality and Operations Committee

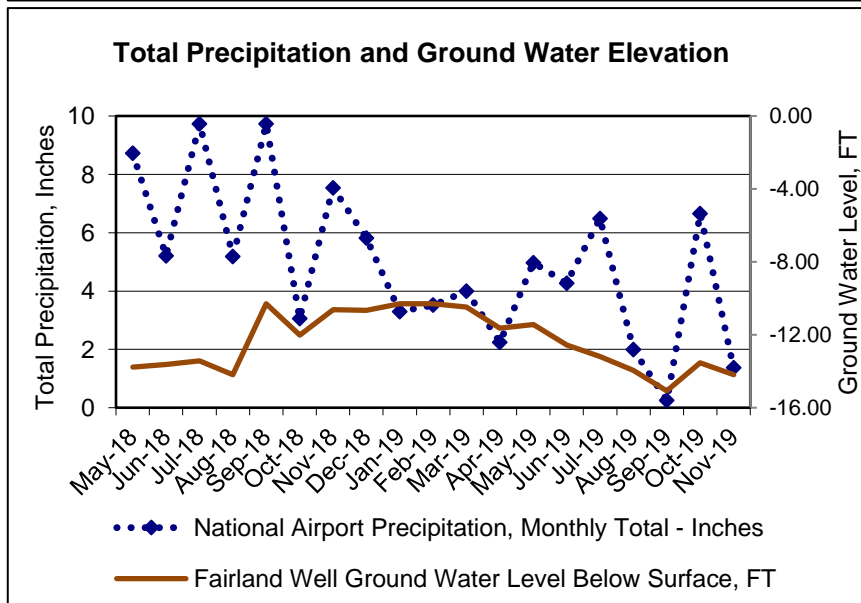
December 19, 2019



Complete Treatment Performance



- Annual Average flow remained above 300 MGD since November 2018
- Plant Influent Flow correlates with long term ground water elevation below surface
- Plant performance was excellent with all effluent quality requirements well below or within the NPDES permit requirements



- The total pounds of nitrogen discharged in the complete treatment effluent - during the current calendar year is on track to remain below the NPDES permit discharge limit of 4,377,580 lbs. /year.



Wet Weather Treatment Facility Performance

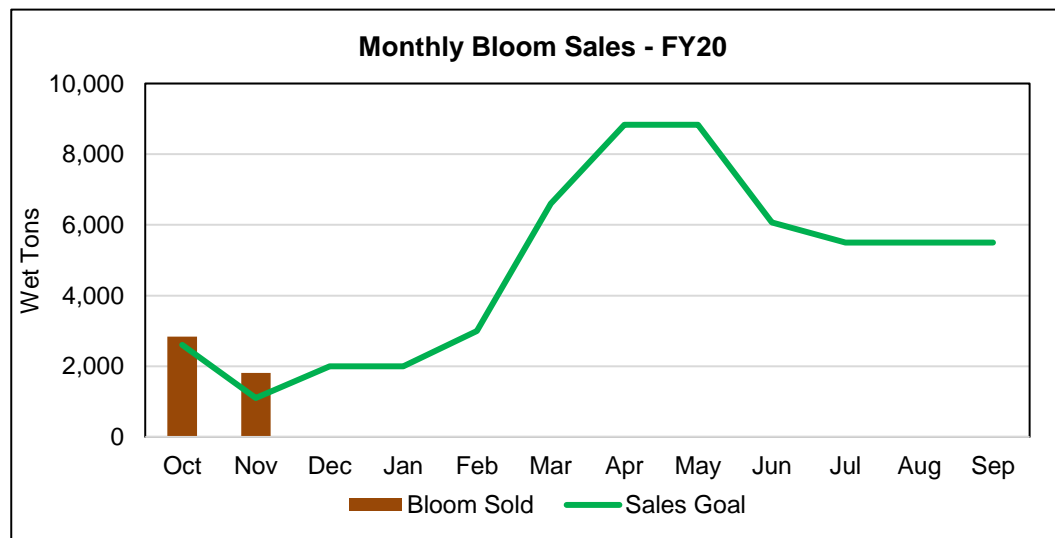
	October 2019	November 2019
Total Precipitation, inches	6.66	1.37
Total Volume Captured and Treated, MG*	349	55
➤ Directed to Complete Treatment, MG	296	45
➤ Discharged to Outfall 001, MG	53	10
Measured Overflow, MG	0	0
➤ Percent Captured, %	100	100

***MG = Million Gallons**



Class A Biosolids Quality & Bloom Marketing

- ❑ All biosolids produced 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
- ❑ Bloom Marketing: ~1,800 tons marketed in November 2019
- ❑ Marketing goal during fiscal year 2020: 60,000 tons (~40% of production)





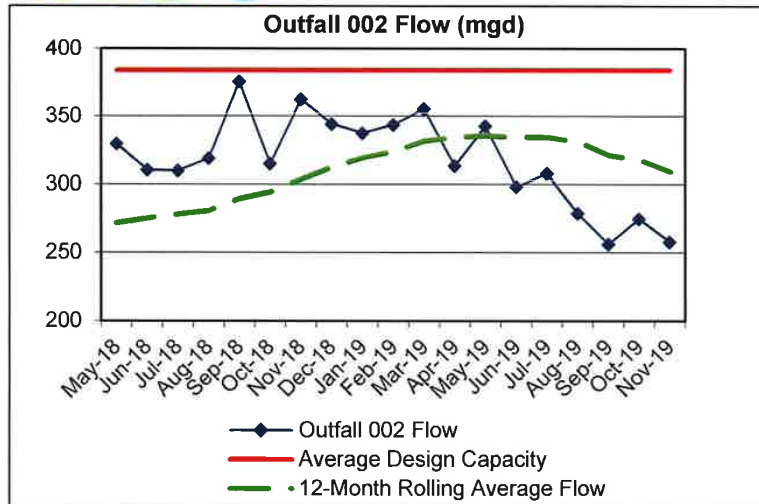
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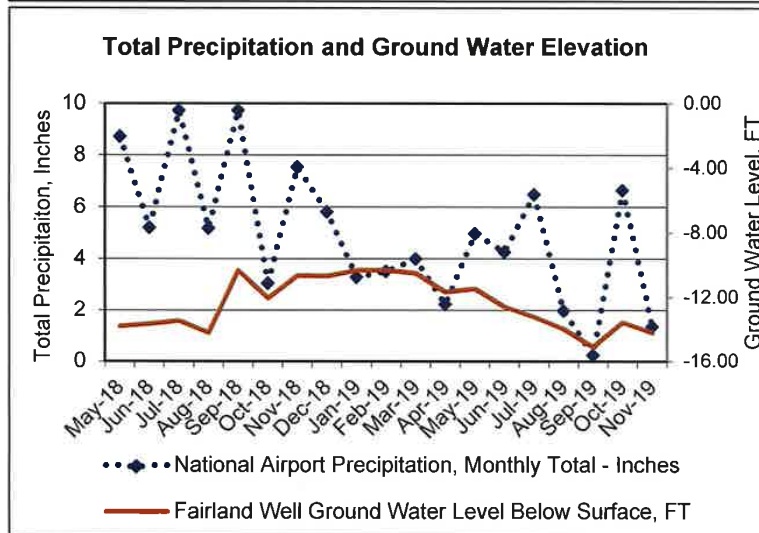
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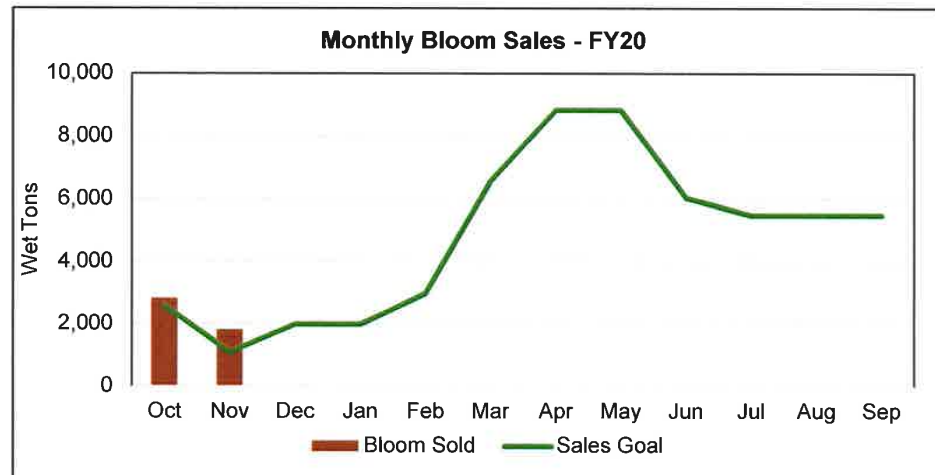
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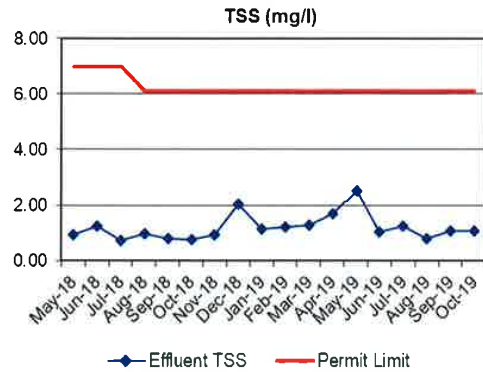
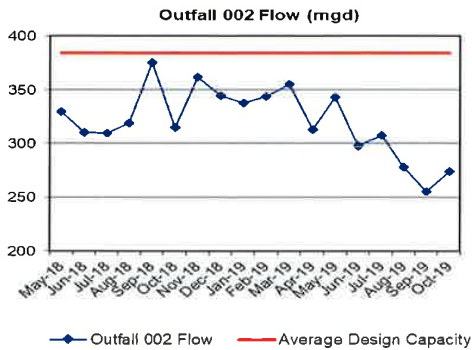
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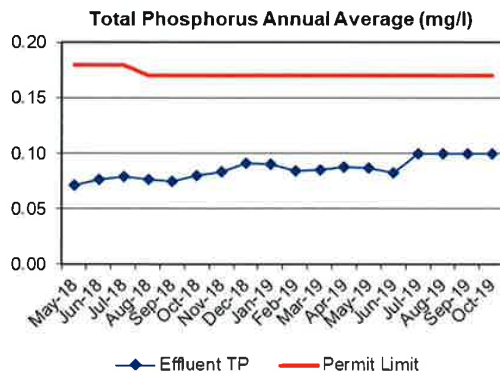
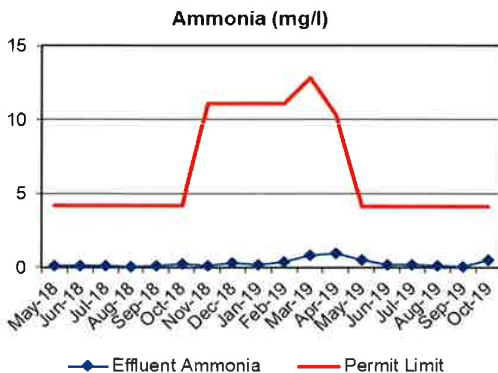
BLUE PLAINS ADVANCED WASTEWATER TREATMENT PLANT PERFORMANCE REPORT – OCTOBER 2019

Average plant performance for the month of October 2019 was excellent with all effluent parameters well below the seven-day and monthly NPDES permit requirements. The monthly average flow through complete treatment and discharge to outfall 002, was 275 MGD. There was 53.2 million gallons of treated, captured combined flow directed to Outfall 001 during this period. The following figures compare the plant performance with the corresponding NPDES permit limits.



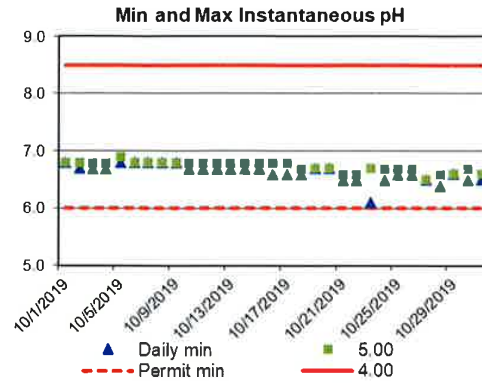
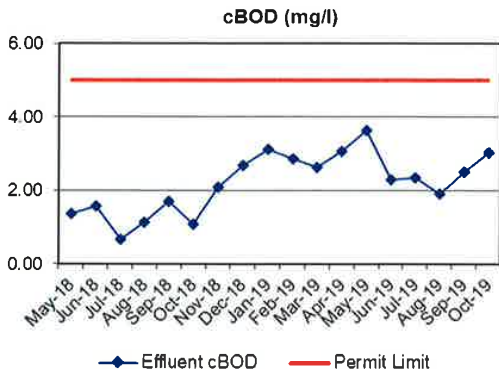
This graph illustrates the monthly average influent flow to the plant. The design average flow is 384 MGD. Blue Plains has a 4-hour peak flow capacity of 555 MGD through complete treatment. Once the plant is at capacity, up to 225 MGD of additional captured combined flow from the tunnel can be treated through enhanced clarification, disinfection and dechlorination.

Effluent Total Suspended Solids (TSS) is a measurement of the amount of solid material that remains suspended after treatment. The effluent TSS concentration for the month averaged 1.07 mg/L, which is below the 6.1 mg/L permit limit.



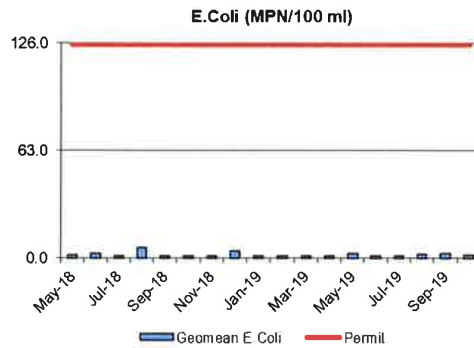
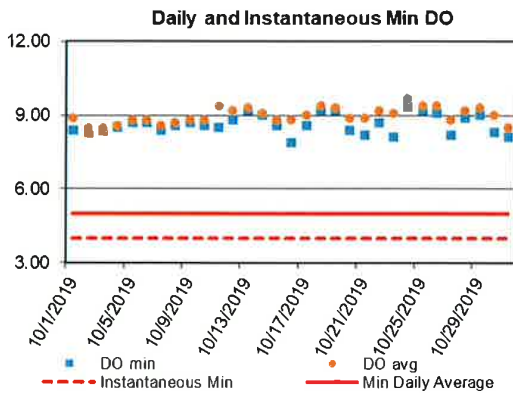
The Ammonia Nitrogen (NH₃-N) is a measurement of the nitrogen found in ammonia. For the month, effluent NH₃-N concentration averaged 0.49 mg/L and is below the 4.1 mg/L seasonal limit.

The Total Phosphorus (TP) is a measurement of the particulate and dissolved phosphorus in the effluent. The 12-month rolling average effluent TP concentration is 0.10 mg/L, which is below the 0.17 mg/L limit.



Carbonaceous Biochemical Oxygen Demand (CBOD) is a measurement of the amount of oxygen required for the decomposition of organic materials. The effluent CBOD concentration averaged 3.05 mg/L, which is below the 5.0 mg/L limit.

pH is a measurement of acidity of the effluent. The minimum and maximum pH observed were 6.1 and 6.9 standard units, respectively. The pH was within the permit limits of 6.0 and 8.5 for minimum and maximum respectively.

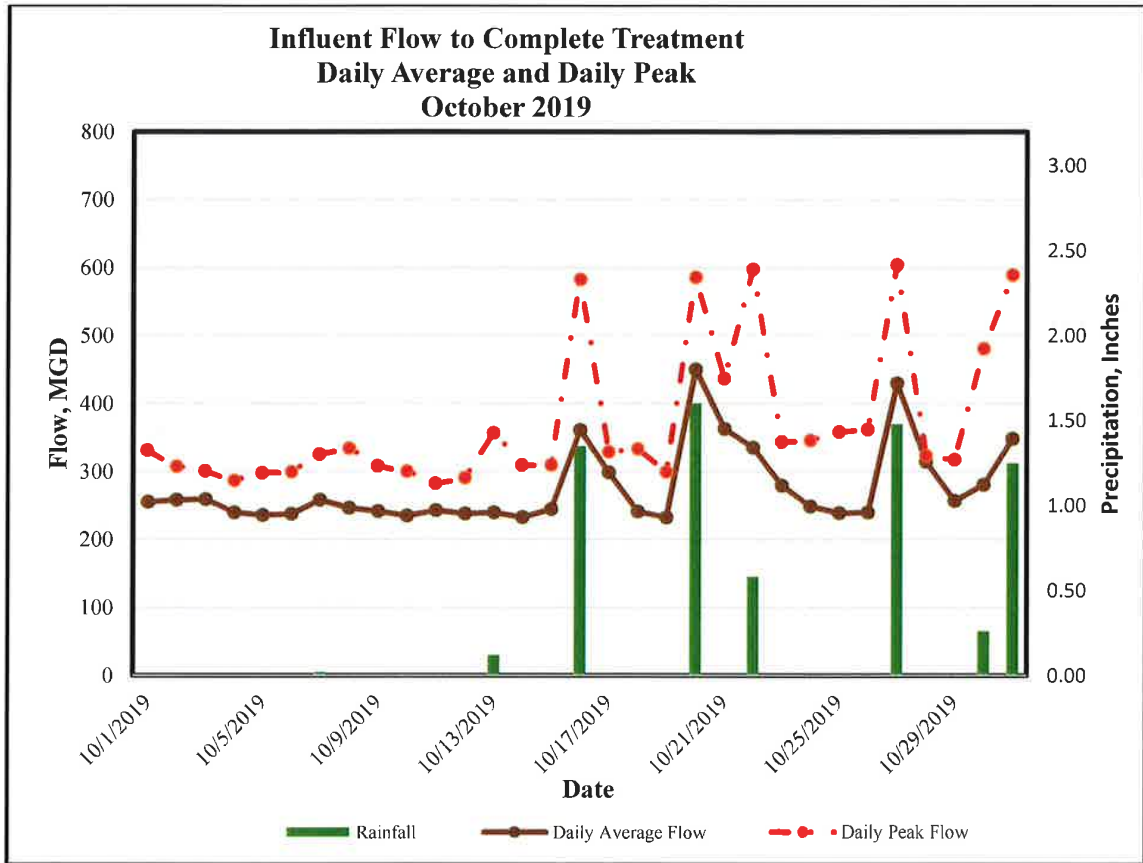


Dissolved Oxygen (DO) is a measure of the atmospheric oxygen dissolved in water. The DO readings for the month are within the permit limits. The minimum daily average is 8.6 mg/L. The minimum instantaneous DO reading is 7.9 mg/L. The minimum daily average and instantaneous permit limits are 5.0 mg/L and 4.0 mg/L, respectively.

E. coli is an indicator of disease causing organisms (pathogens). The E. coli permit limit is 126/100mL. The E coli geometric mean is 1.5 /100mL, and well below the permit limit.

Wet Weather Impact on Plant Performance

During the month of October 2019, the Washington Metropolitan Region received above average precipitation (6.66 inches vs normal of 3.4 inches) as measured at the National Airport. There was 53.2 million gallons of treated, captured combined flow directed to Outfall 001 during this period.



Wet Weather Treatment Facility (WWTF) at Blue Plains

Brief Description

The Wet Weather Treatment Facility at Blue Plains provides treatment for Combined Sewer Overflows (CSO) conveyed through the Long-Term Control Plan (LTCP) tunnel systems to Blue Plains. With a design capacity of 250 MGD, the facility consists of sub systems including- a flow surcharge wet well and coarse screens, upstream of five 3,000 Horse Power (HP) Tunnel Dewatering Pumps (TDPs). The TDPs lift the flow 156 ft to the above ground Enhanced Clarification Facility (ECF), which comprises of fine screening, grit removal, and high rate clarification (HRC). The effluent from HRC is disinfected and dechlorinated before it's discharged through Outfall 001. When flow rates to the main plant are below the permitted peak flow rates of 555 OR 511 MGD, the effluent from the HRC (or a portion of it) is directed to the main plant for complete treatment. On an average year, the facility is designed to receive approximately 2.6 billion gallons of CSOs and provide treatment with The WWTF, along with the first section of the Anacostia Tunnel System were placed in operation, three days in advance of the March 23rd Consent Decree date.



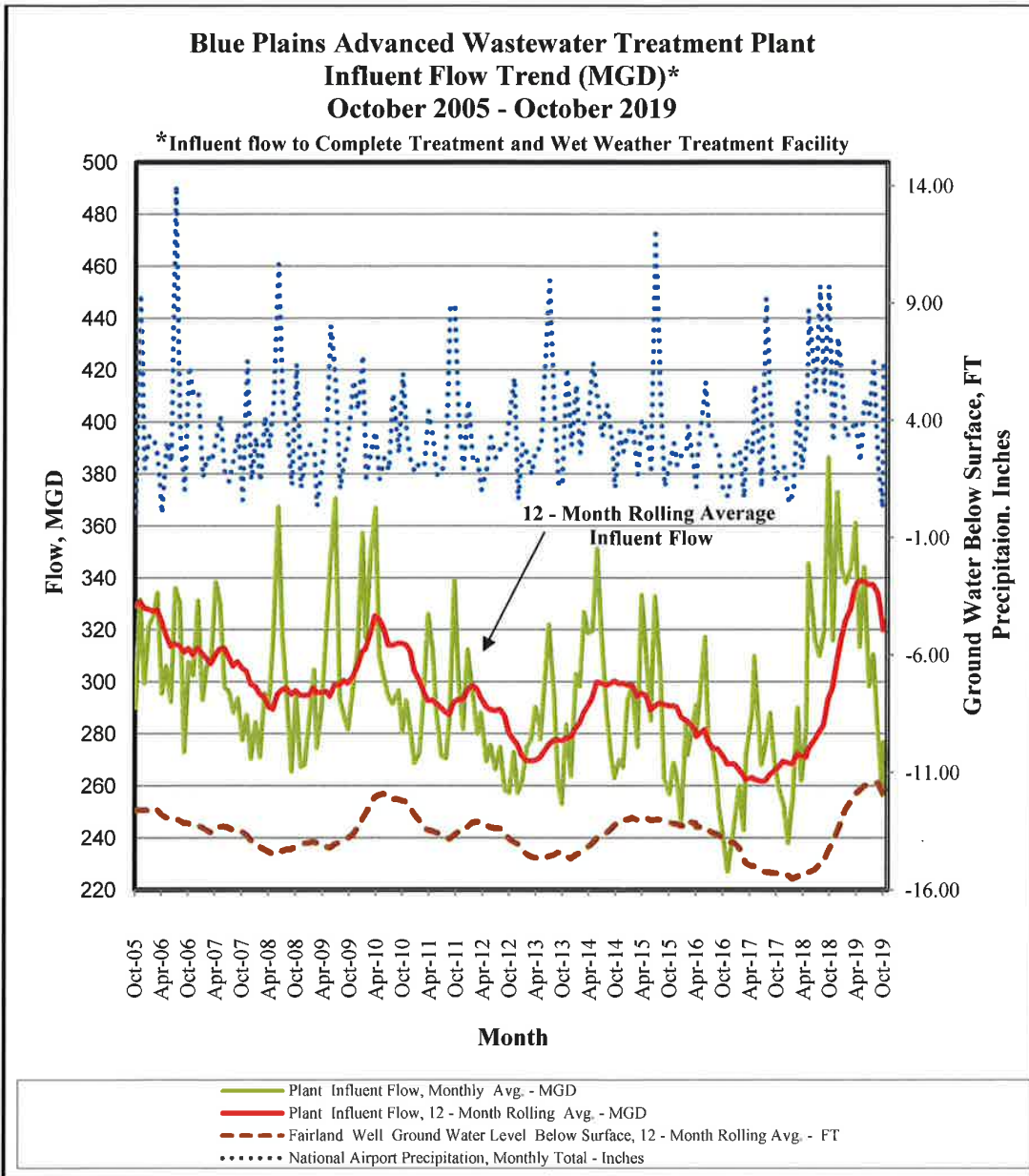
Aerial rendering of the Wet Weather Treatment Facility

Performance

During the month of October, a total of 349 million gallons (MG) of wet weather flow captured in the tunnel system, was pumped, and treated through the Wet Weather Treatment Facility. Part of the treated flow or 295.8 MG was directed to the main plant to maximize complete treatment. The remaining flow or 53.2 MG was disinfected, dechlorinated, and discharged to to Outfall 001. Since the commissioning of the first section of the Anacostia River Tunnel Systems and the WWTF on March 20, 2018 and including the wet weather events that occurred in October 2019, the total volume pumped and treated through the WWTF is 6,683 MG. During the same period, 2,834 wet tons of screenings and grit (trash, debris, sediment) were removed, that would otherwise have been discharged into the Anacostia River.

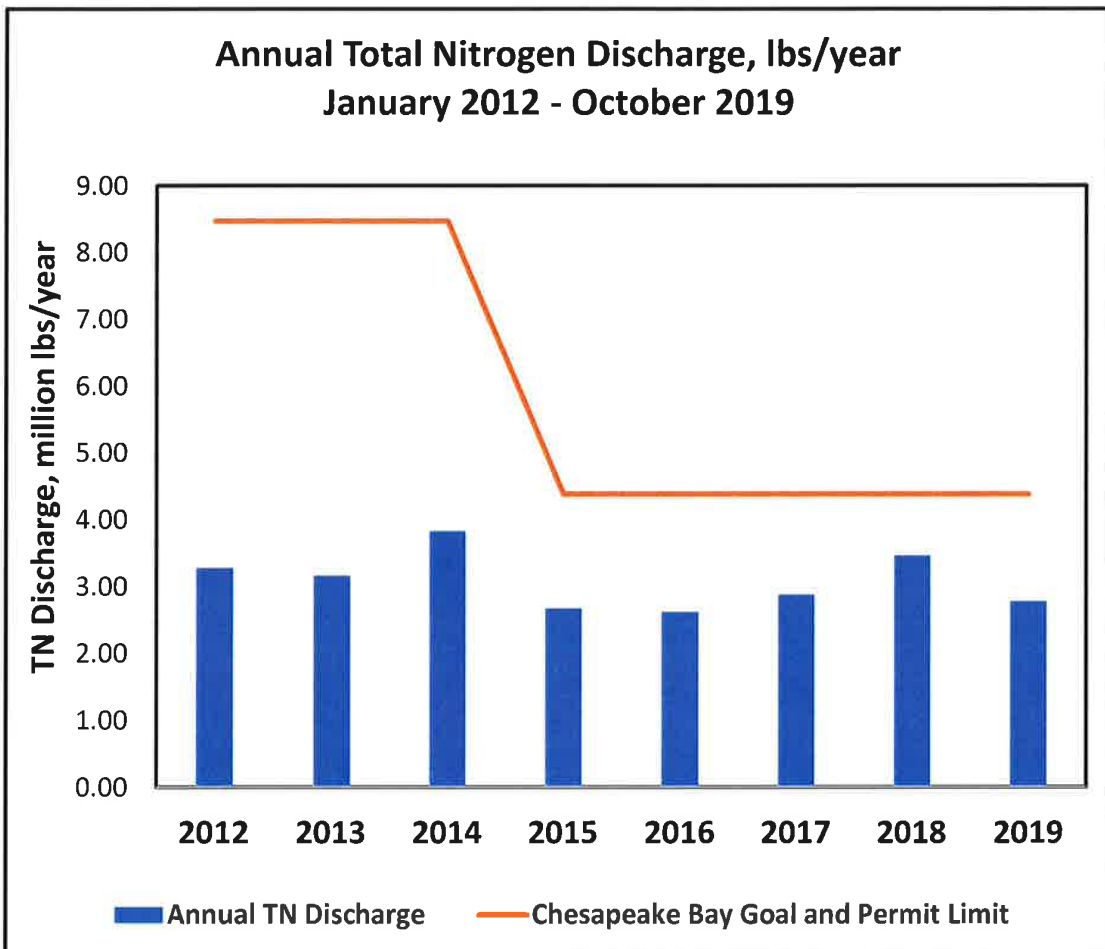
Plant Influent Flow Trend

The graph below shows a long-term influent flow trend to the plant ending October 2019. While for any given month the flow is weather dependent, the 12-month rolling average influent flow exceeded 300 MGD since November 2018.



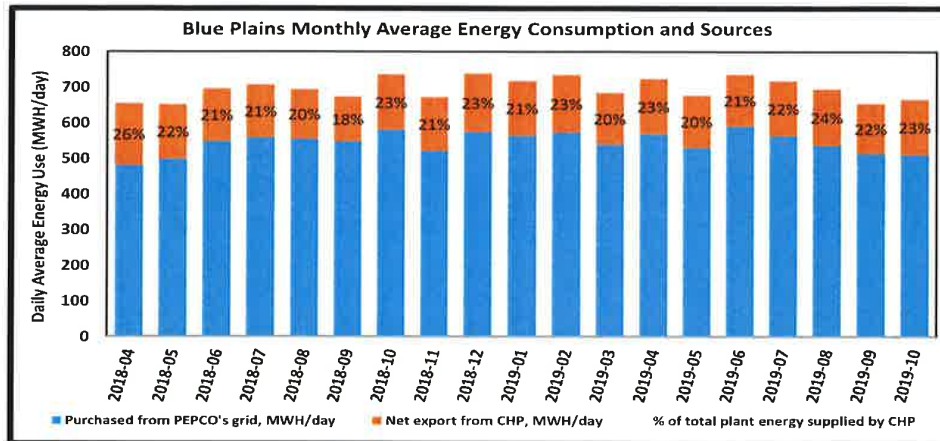
Blue Plains Total Nitrogen (TN) Removal – Performance

The graph below shows total annual nitrogen discharge, in million pounds per year, over an 8-year period ending October 2019. In October 2019, the monthly average TN concentration and total load in the complete treatment effluent were 2.91 mg/L and 222,596 lbs., respectively. The total pounds of nitrogen discharged in the complete treatment effluent during the current calendar year (through October 2019) is 2,773,405 lbs. and on track to remain below the NPDES permit discharge limit of 4,377,580 lbs./year. The performance corresponds to average flow of 311 MGD, maximum month flow of 355 MGD, and average wastewater temperature above 16°C observed during the period. The Blue Plains Enhanced Nitrogen Removal Facility (ENRF) is designed to meet the TN discharge limits at influent loads corresponding to annual average flows of 370 MGD, maximum month flows of 485 MGD, and operating wastewater temperatures below 12°C.



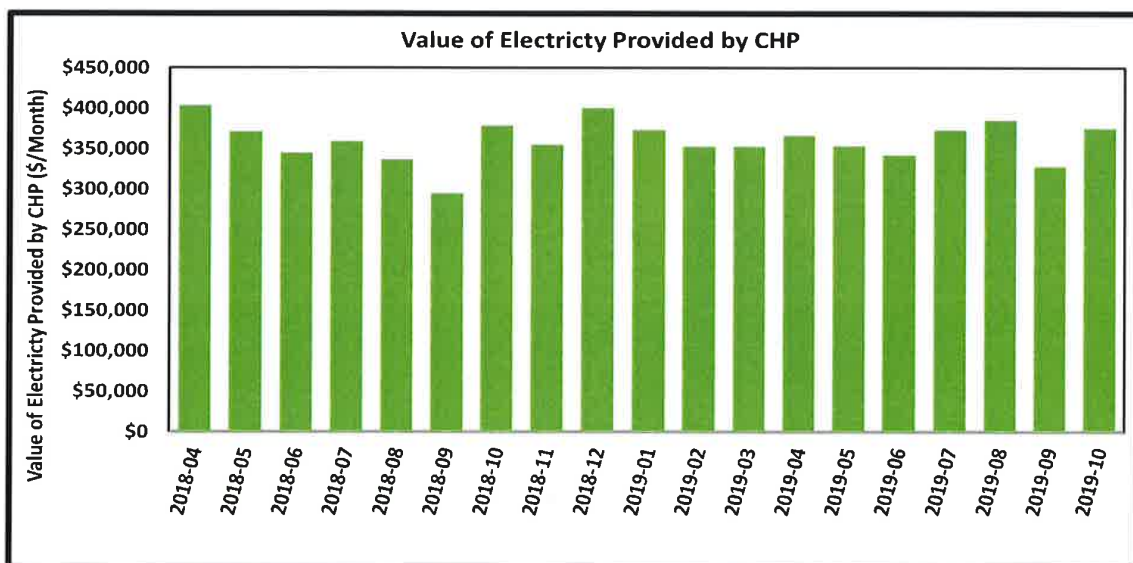
Blue Plains Electricity Generation and Usage

In October 2019, the average energy consumed at Blue Plains was 663 megawatt hours per day (MWH/day) or 2.41 MWH of electricity per million gallons of wastewater processed through complete treatment. The Combined Heat and Power (CHP) facility generated an average of 140 MWH/day, making up for 23% of total energy consumed at Blue Plains. The remaining 508 MWH/day was purchased from PEPCO.



The graph above is based on power monitors installed at the Main Substation and CHP, and reflects average energy consumed at Blue Plains in MWH/day. Of the total use, the energy purchased from PEPCO and net energy supplied by CHP are indicated by the blue and orange highlights, respectively.

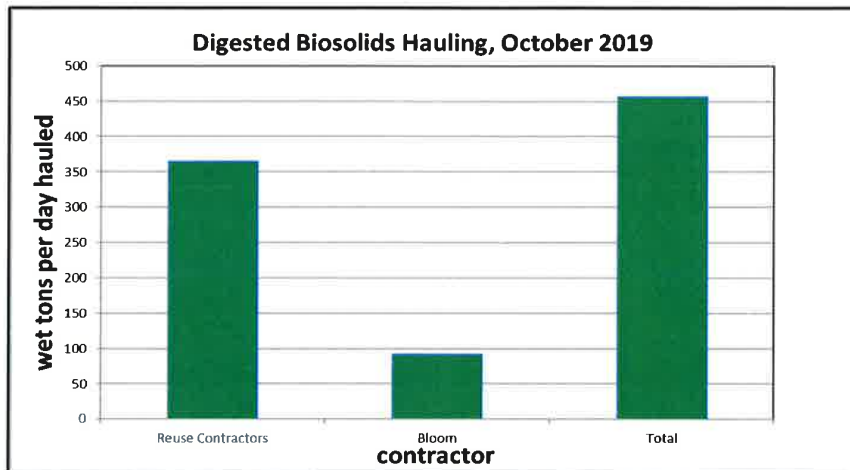
The graph below shows the monthly value of the net electricity generated by CHP by assuming unit price of \$78/MWH of electricity.



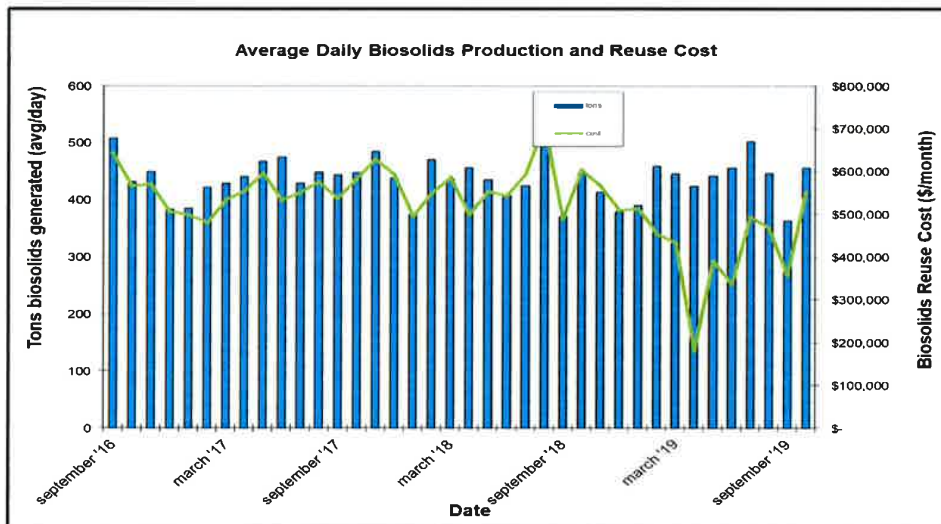
RESOURCE RECOVERY

In October, biosolids hauling averaged wet 454 tons per day (wtpd). The average percent solids for the Class A material was 30.9%.

The average quantities of Class A biosolids transported and applied on farms by the three contracts and the quantities marketed as Bloom are shown on the graph above. In October, 2,837 wet tons of Bloom were distributed to 22 customers.



The graph below shows average daily biosolids produced and the associated monthly cost for reuse (transportation and application cost) for a three-year period ending October 2019. In October, diesel prices averaged \$3.23/gallon, and with the contractual fuel surcharge, the weighted average biosolids reuse cost (considering the marketed material) was \$38.92 per wet ton.

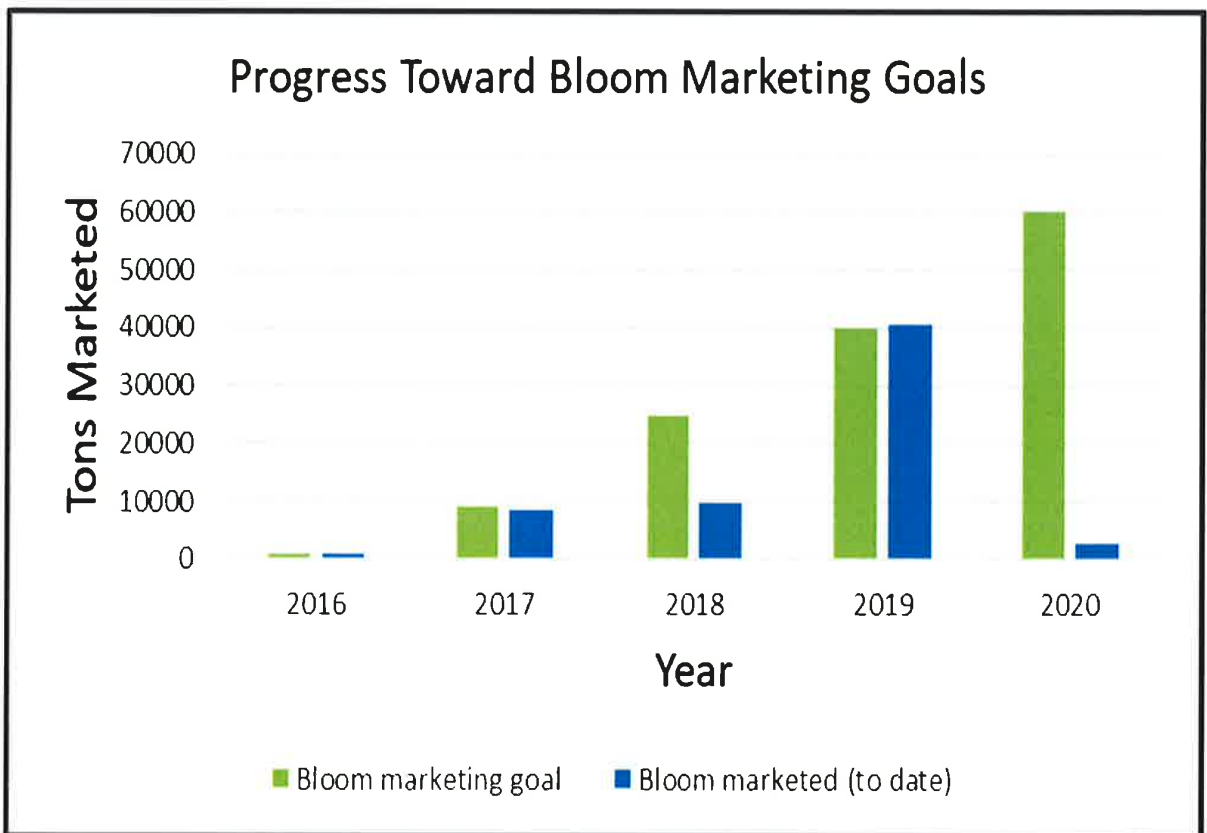


Product Quality

All biosolids produced 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

Bloom Marketing

Bloom sales as during October 2019 totaled 2,837 tons for the fiscal year. This represents 5% of the FY20 goal (60,000 tons).



Water Quality & Pretreatment

The Blue Plains Water Quality & Pretreatment group manages the Industrial Pretreatment Program, including temporary dewatering dischargers (construction dewatering, etc.) and dental dischargers, as well as the Hauled Waste Program. Staff also provide specialized sampling and program management support for the Blue Plains NPDES permit, including low level PCB and mercury monitoring as well as storm water management and regulatory compliance support. In addition, staff supported an 8-day collection system sampling program this month to evaluate loadings from one location each in the District and contributing jurisdictions. Staff also participated in a regional pretreatment coordinators meeting at WSSC.

Industrial Pretreatment Program

DC Water currently manages eleven (11) Significant Industrial User (SIU) and sixteen (16) Non-Significant Industrial User (NSIU) wastewater discharge permits. One NSIU permit (Joint Base Anacostia Bolling) was renewed this month. Staff conducted a final inspection at one permitted NSIU this month (Providence Hospital) and is conditionally terminating the NSIU permit due to closure of hospital services. All SIUs and NSIUs are currently in compliance with discharge standards.

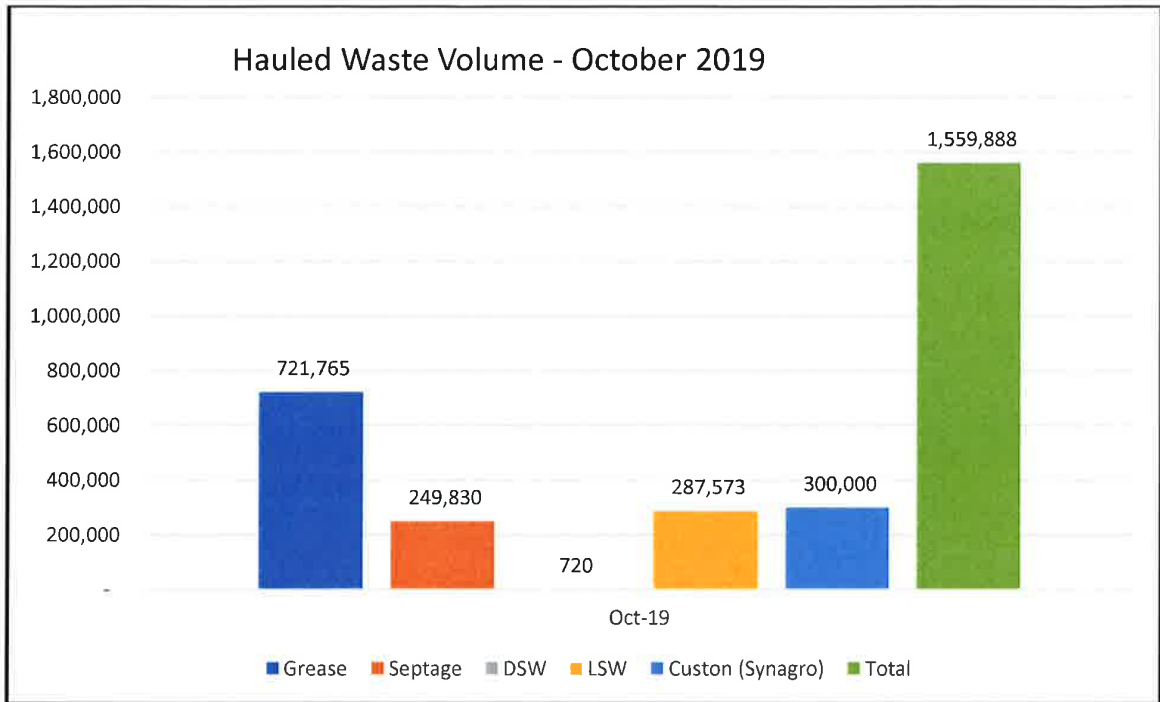
DC Water received the 2018 annual report review from EPA Region III this month and received the highest available overall program rating of 100% for DC Water's pretreatment program.

DC Water currently manages 102 Temporary Discharge Authorization (TDA) permits, primarily for construction site discharges of groundwater and/or surface runoff in the combined sewer area. Five new TDA permits were issued this month. All TDA permittees are currently in compliance with discharge standards.

Hauled Waste Program

DC Water currently manages 36 Waste Hauler permits for discharge of domestic septage, portable toilet waste, grease trap waste, groundwater or surface runoff, and other types of waste (if approved in advance and meet pretreatment standards). Two Waste Hauler permits were renewed, two were terminated, and one new permit was issued this month.

DC Water received 697 hauled waste loads (1,559,888 gallons) from permitted haulers this month. Manifest forms from each truck entering the plant are collected by the security guards and picked up daily by Pretreatment staff and information is manually entered into an access database. Two hauled waste samples were collected this month and results were in-compliance with discharge criteria.



Revenue Generation

The following billing (revenue) and receivables (cash) occurred this month for Groundwater/Retail Sewer (GWRS) billing for disposal fees in accordance with TDA permits issued under the Industrial Pretreatment Program, Industrial User (IU) billing for high strength waste, permitting fees, and annual compliance fees issued under the Industrial Pretreatment Program, and Waste Hauler (WH) billing for permitting and disposal fees issued under the Hauled Waste Program:

Cat. Code	FY 20 (Oct) Revenue Posted	FY 20 (Oct) Cash Received
GWRS	\$1,008.00	\$321.54
IU	\$52,160.79	\$6,918.91
WH	\$62,710.13	\$61,916.06
Total	\$115,878.92	\$69,156.51



District of Columbia Water and Sewer Authority
David L. Gadis, CEO and General Manager

Briefing on:

*DC Clean Rivers Project
Green Infrastructure Update*

Briefing for:

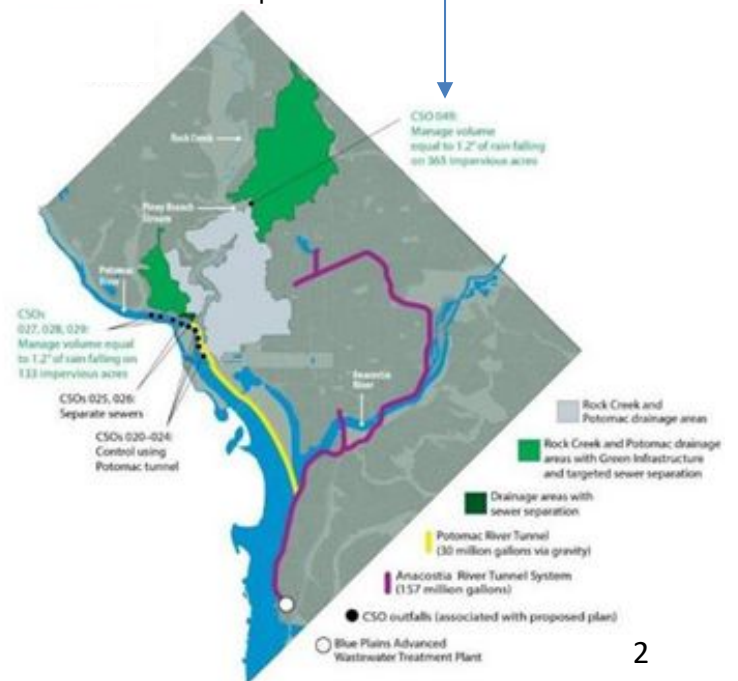
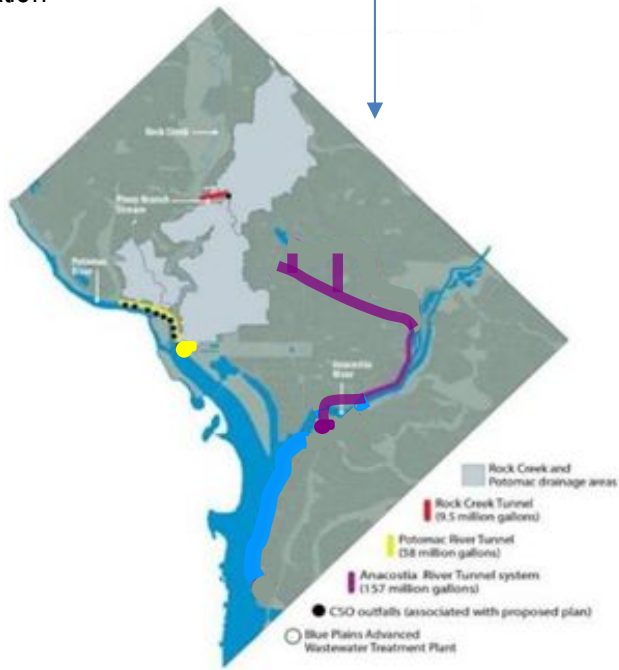
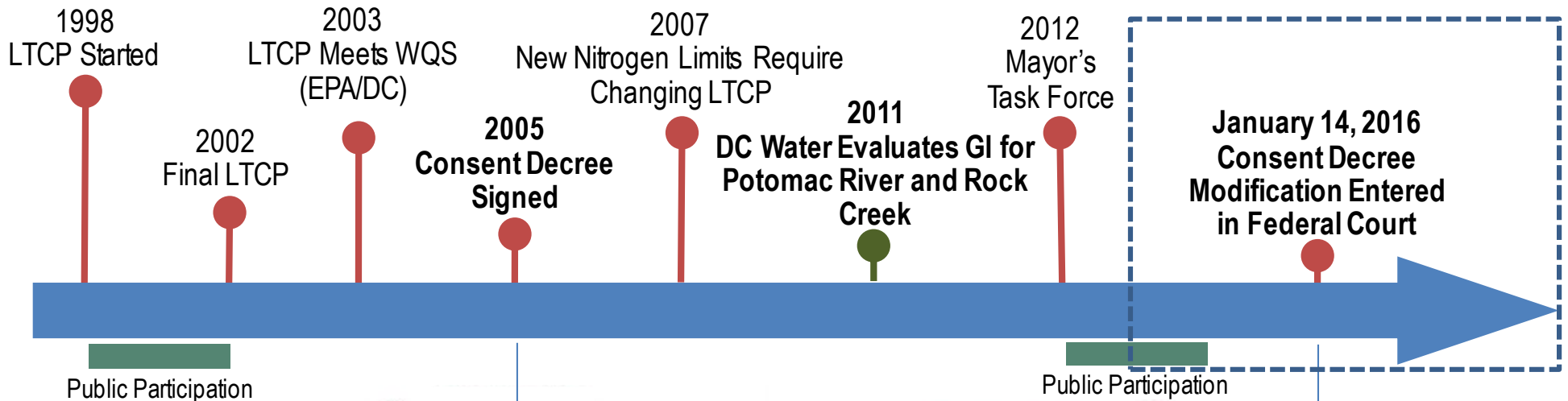
Environmental Quality and Operations Subcommittee

December 19, 2019



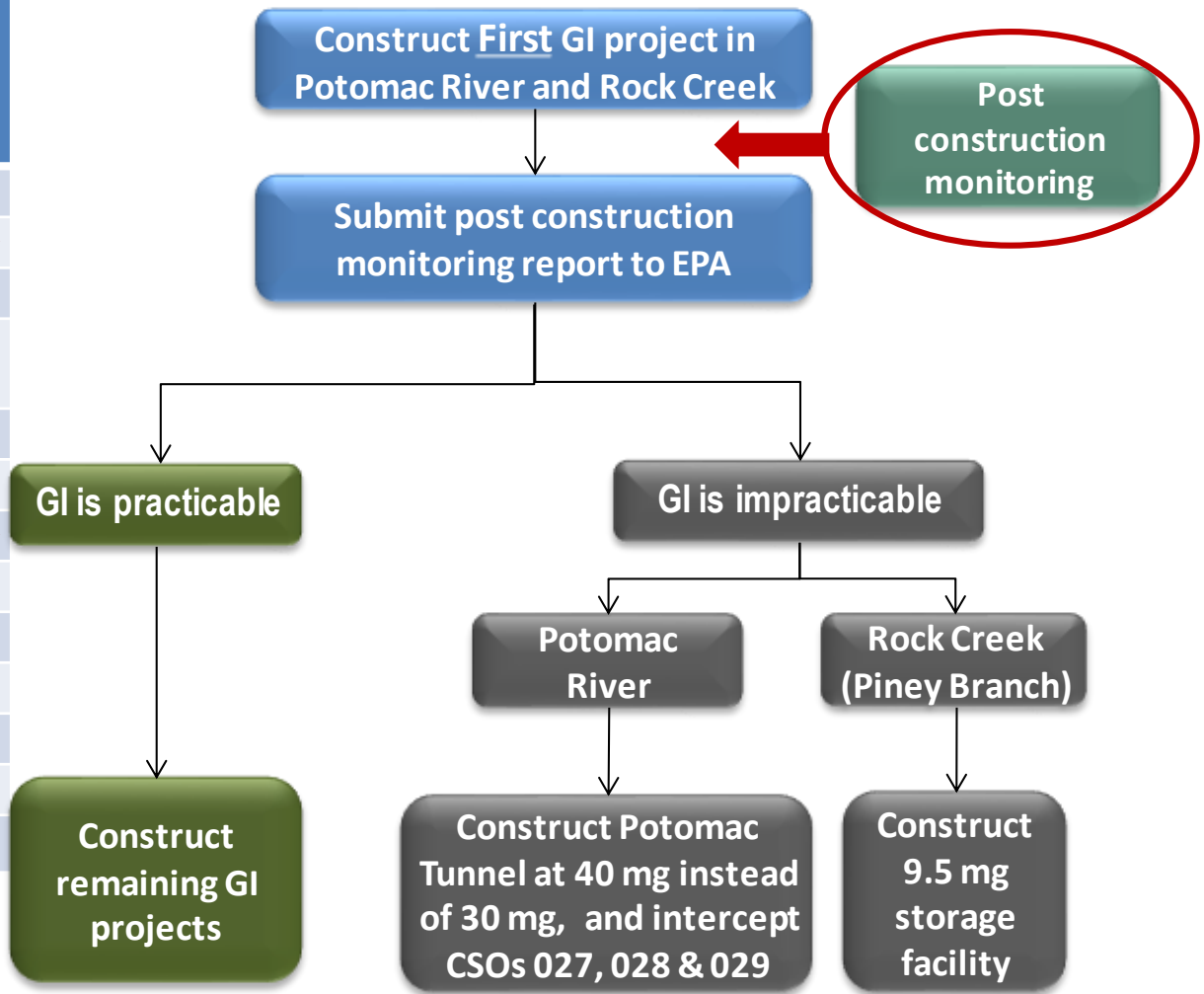
DCWATER.COM

Green Infrastructure: Consent Decree Change for Green Infrastructure

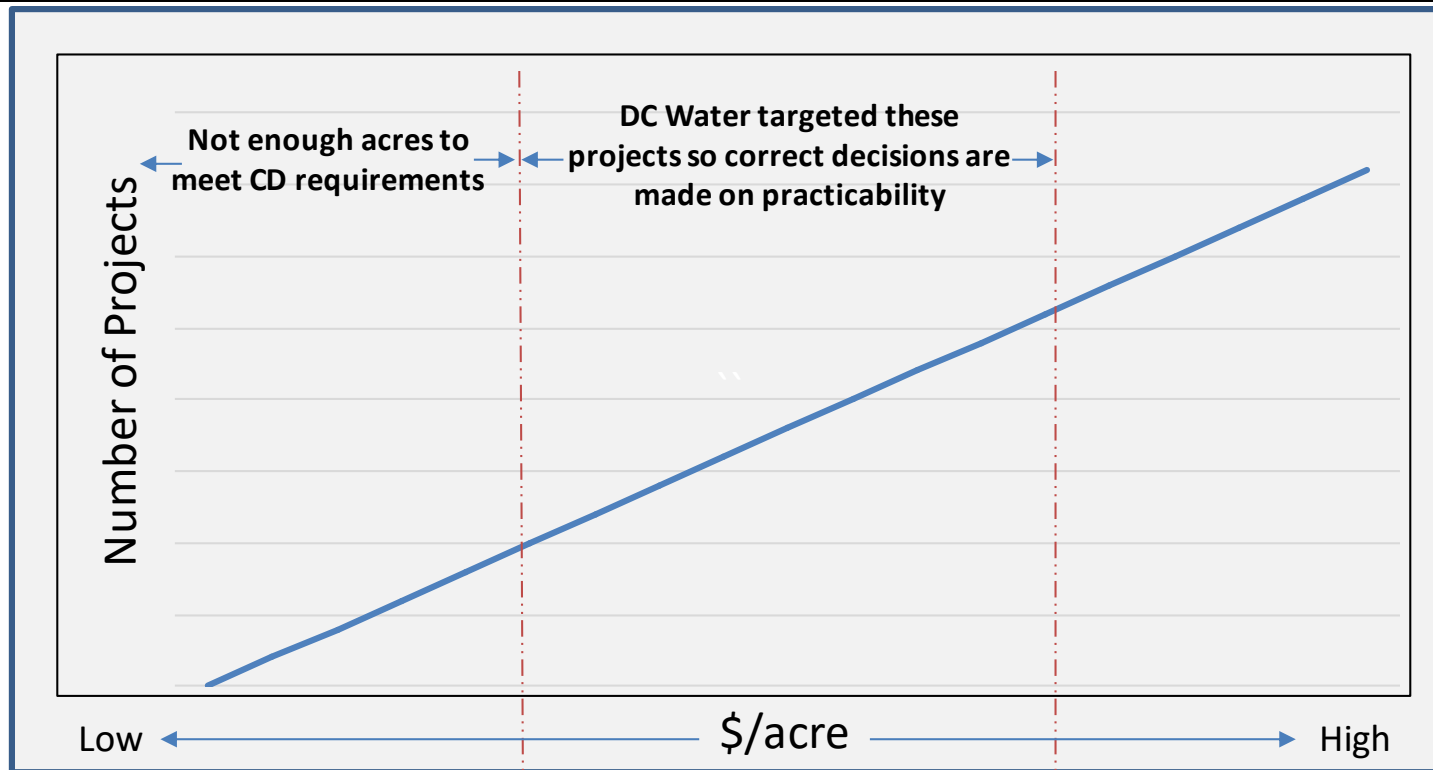


DC Water Negotiated a Practicability Assessment in the Consent Degree as a Risk Mitigation

Project	Impervious Acres Managed @ 1.2"	Place in Operation Deadline
Potomac River Project 1	44	2019
Practicability assessment →		
Potomac River Project 2	46	2024
Potomac River Project 3	43	2027
Subtotal	133	
Rock Creek Project 1	20	2019
Practicability assessment →		
Rock Creek Project 2	75	2024
Rock Creek Project 3	90	2027
Rock Creek Project 4	90	2029
Rock Creek Project 5	90	2030
Subtotal	365	
Grand Total	498	



Green Infrastructure Facility Cost Range



- Greenfield sites
- Redevelopment
- Construct as part of a District Project

- Retrofit in existing space
- Minimal utility relocation
- Representative of a typical city block in Rock Creek or Potomac GI areas

- Change public space / layout
- Utility Relocation



GI Program Cost Drivers

- Cost Drivers to date include:
 - Initial sites are representative of large scale GI necessary for Consent Decree
 - Lack of GI experience in DC Contractors
 - DDOT requirements for extensive restoration of urban public space
 - Urban vs suburban construction
 - Urban utility density / aging infrastructure
 - District/DC Water Local Hiring/ Business Green Jobs MOU requirements
 - Certified Business Enterprise (51% +)
 - NGICP certified local resident labor hours
 - Apprenticeship
 - Mentor/Internship
 - Job Fairs
 - Contracting Fairs
 - Green Jobs Goal (51% Local New Hires)



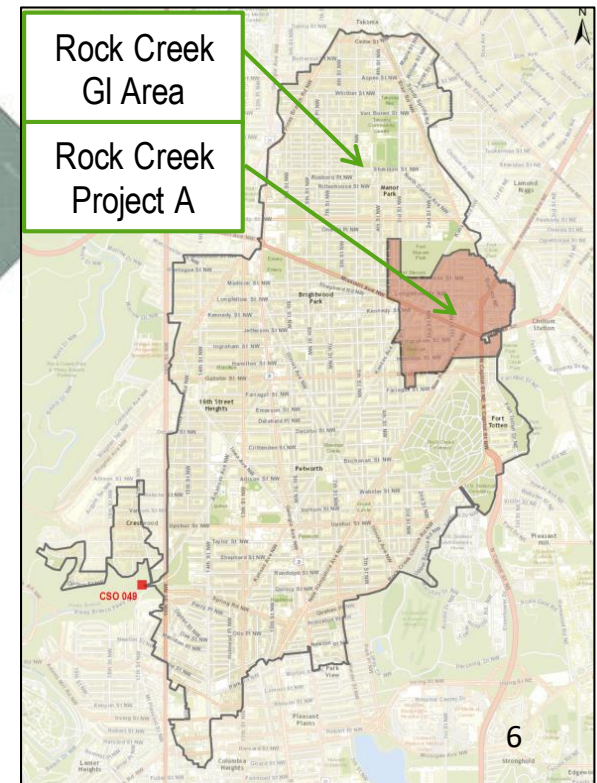
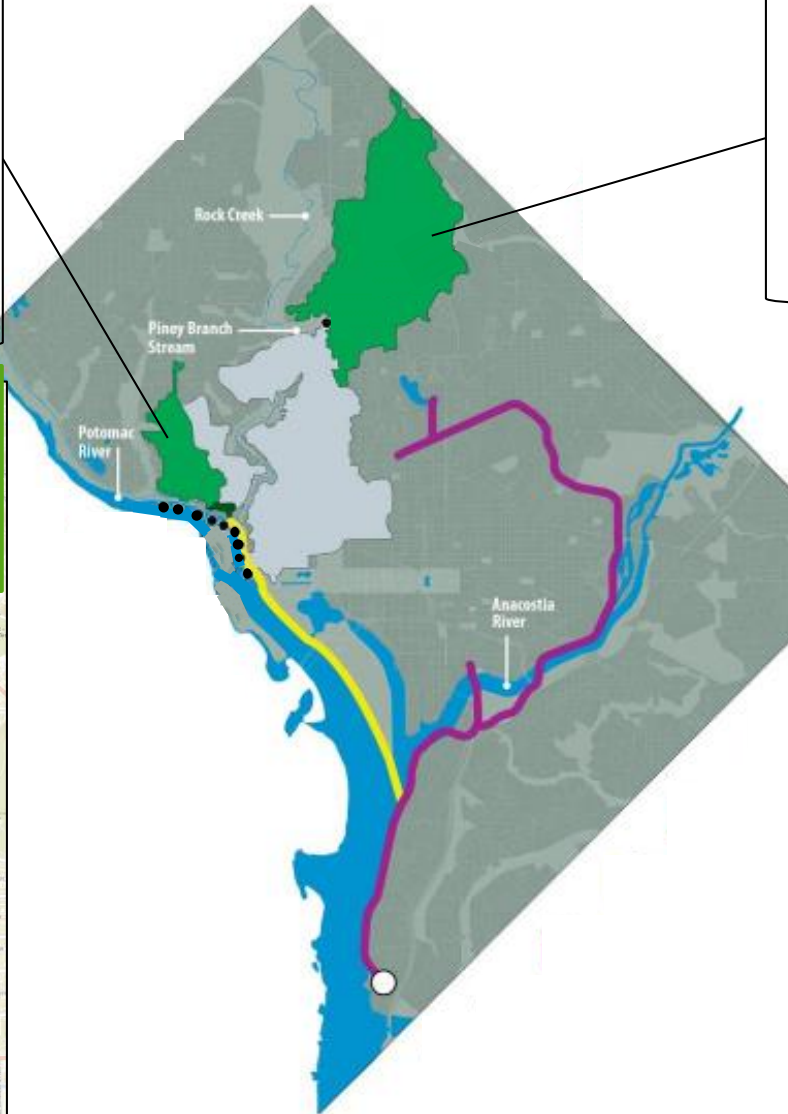
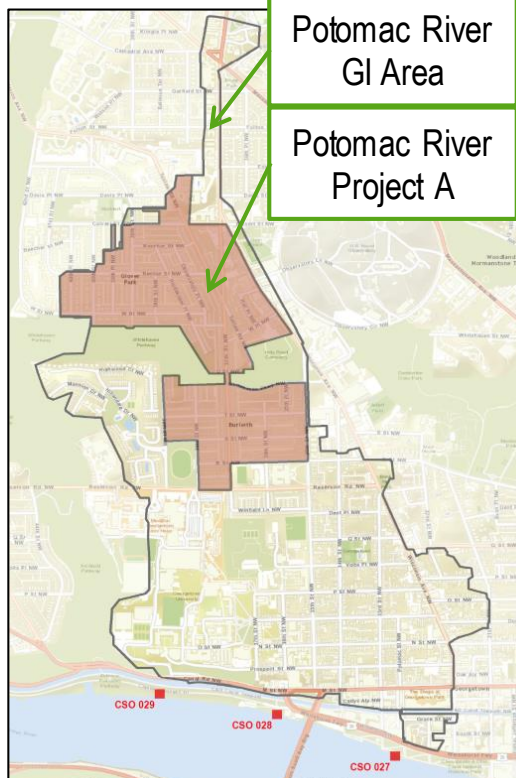
Basis for Practicability Assessment: Potomac River and Rock Creek Project 1

Potomac River Initial Project:

- 1st of 3 Contracts
- Manages 44 of 133 Impervious Acres (8 w/GI 36 w/sewer separation)
- Substantial Completion April 2019
- Contract Value \$6,265,503

Rock Creek Initial Project:

- 1st of 5 contracts
- Manages 22 of 365 Impervious Acres
- Substantial Completion October 2018
- Contract Value of \$26,841,394



Basis for Practicability Assessment: Successful Green Alley Partnership on DDOT's AlleyPaloosa

- District initiative to restore 8 alleys in 8 Wards each year
- DDOT and DC Water partnered to incorporate GI for alleys within the Rock Creek and Potomac River sewersheds
- Seven alleys managing 3 acres of runoff for a cost of \$1.7M
- Completed September 2018



Basis for Practicability Assessment: Downspout Disconnection Program

Drain The Rain	
Homes Visited (2017-2019)	6,471
Downspouts Evaluated	13,200
Downspouts Disconnected	385
Rain Barrels Installed	220
Homes Participating	293
Impervious Roof Acres Disconnected	3.0
Equivalent Acres Managed*	1.2
Gallons of Stormwater Removed* (per 1.2-inch Storm)	38,839
Construction Cost	\$574,660

* Applied 40% infiltration and 60% runoff



GI Evolution of Cost Overview: Progress to Date

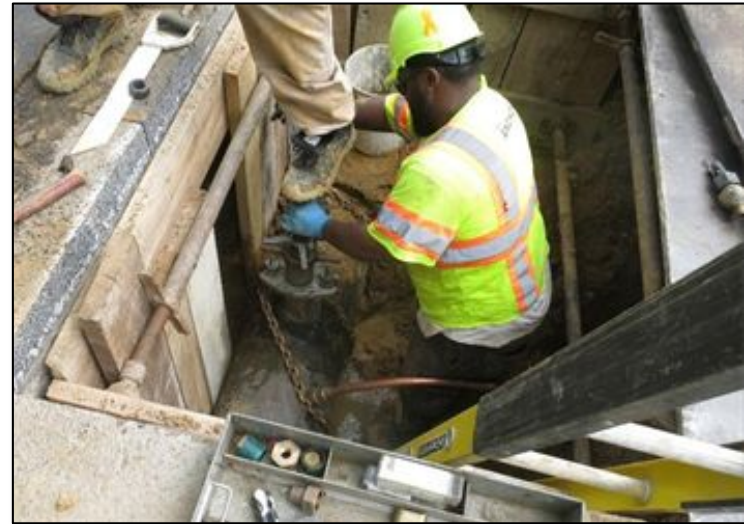
Construction Cost	Project / Timeframe	Contracting Method	Construction Cost	Number of Acres Managed	Construction Cost per Acre Managed
	Rock Creek Project A (2016)	Design-Build	\$18.54 M	18.8	\$ 976,000
	AlleyPalooza (2017)	IDIQ	\$ 1.67 M	3.0	\$ 550,000
	Potomac River A (2018)	Design-Bid-Build	\$ 5.22 M	7.9	\$ 654,000
	Downspout Disconnect (2017 – 2019)	Non-Profit	\$ 0.57 M	1.2	\$ 479,000

Capital Cost	Project / Timeframe	Contracting Method	Capital Cost	Number of Acres Managed	Capital Cost per Acre Managed
	Rock Creek Project A (2016)	Design-Build	\$24.1 M	18.8	\$1,282,000
	AlleyPalooza (2017)	IDIQ	\$ 1.99 M	3.0	\$ 666,000
	Potomac River A (2018)	Design-Bid-Build	\$ 6.79 M	7.9	\$ 851,000
	Downspout Disconnect (2017 – 2019)	Non-Profit	\$ 0.69 M	1.2	\$ 575,000

- Public-Private Partnerships (P3) - Currently being explored by DCCR

Similar Urban GI Programs: Construction Cost per Acre

- Cost targets vary based upon:
 - Prevalence of constraints
 - Proximity to other GI systems
 - Neighborhood and CSO reduction needs
 - Opportunities for cost-sharing and achieving multiple objectives
- GI construction costs from \$400,000 - \$550,000/acre are not uncommon among peer programs such as NYC and Philadelphia.



Cost Reduction Strategies: Expected Range of Cost Savings

- **Planning/Site Selection**
 - Reduces restoration costs
 - Larger open space practices➔ Up to 15% reduction
- **Standardization + Optimization = Faster Implementation and Simplified Approach**
 - Fast way to incorporate GI into existing contracts/change orders
 - Way for contractors to quickly learn and implement approach
 - Eliminates long lead items
 - Reduces high cost construction items➔ Up to 20% reduction
- **Partner Projects = Increased Acreage**
 - Way to leverage District Capitol Improvement Program work that doesn't include GI➔ Up to 35% reduction



= Lower Costs



Cost Reduction Strategies: Scenarios

- Cost reduction strategies can be independent or combined with other strategies to maximize cost benefits.
- Cost reduction strategies are not necessarily cumulative

Example Scenarios:

- **Future DC Water GI Construction**

- Planning/Site Selection
- Standardization + Optimization



Up to 25% reduction

- **Future Partner Project GI**

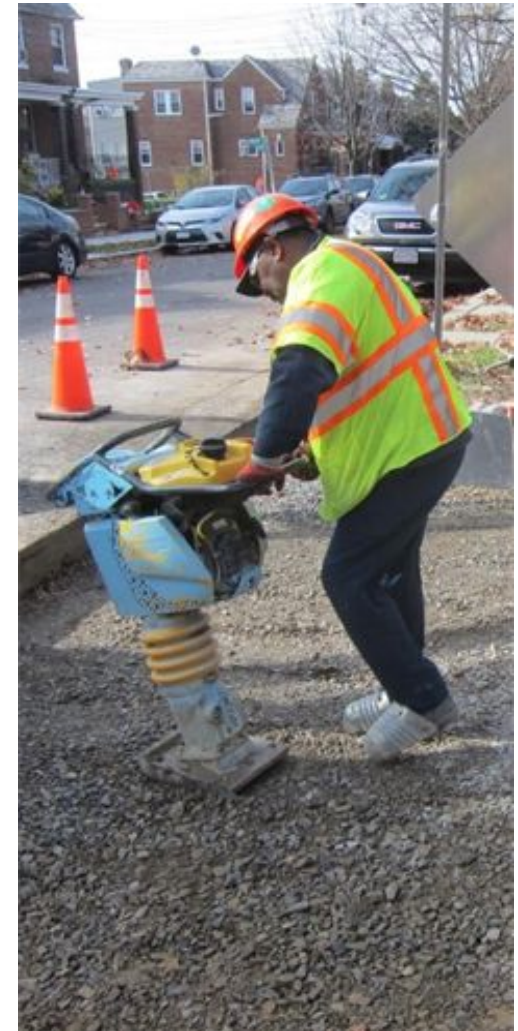
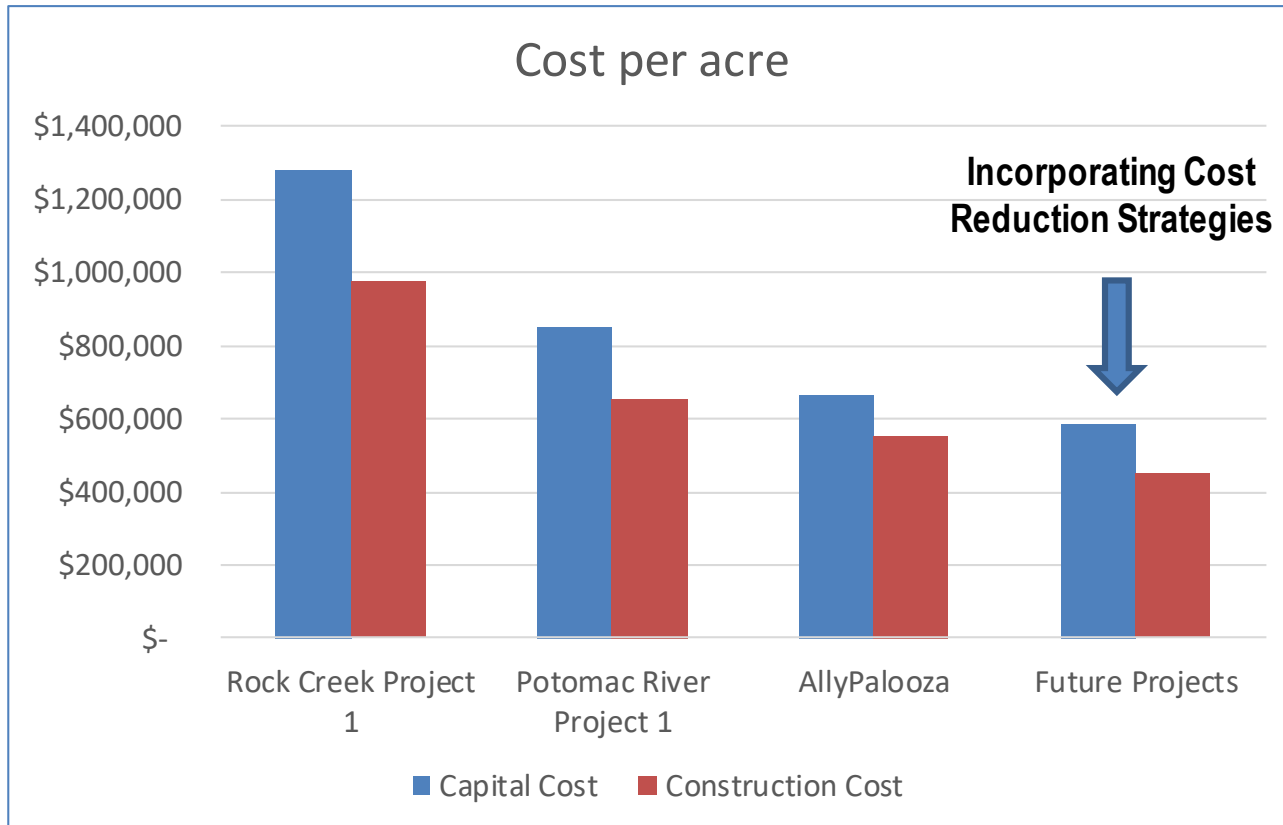
- Partner Project (AlleyPalooza, SDWMMR)
- Standardization + Optimization



Up to 40% reduction



Expected Cost Reduction Over Time



GI Maintenance

- Current estimated maintenance costs range from \$12K - \$18K per acre per year
- Estimate is based on limited data
 - Maintenance has been ongoing less than a year (since construction was completed)
 - Limited number of facilities
- DC Water will continue to optimize maintenance processes over time
 - Major part of overall GI adaptive management strategy
 - Determine appropriate frequencies for inspection and maintenance activities
 - Determine appropriate balance of in-house and contracted resources
 - Expectation that maintenance costs go down over time as maintenance is optimized and greater scale is achieved.



Green vs. Grey Cost Comparison

Project	<u>Cost to Construct Facility</u> (Capital \$/gallon of storage provided)	<u>Performance</u> - \$/gal of CSO Removed (Capital + O&M)
Grey CSO Controls (Large Programs – Anacostia Tunnel)	\$12	To be determined as part of Practicability Evaluation
Grey CSO Controls (Smaller Projects – Ex. Rock Creek Storage)	\$15 - \$20	
Green CSO Controls (Current Projects – PRA-1)	\$26	
Green CSO Controls (Est. Future Project Costs)	\$18	

- Comparable capital costs associated with future Green CSO Project costs and Small (Grey) CSO Project costs

Next Steps

- Consent Decree/Practicability Report
 - Practicability Report due to EPA June 2020 for Rock Creek and September 2020 for Potomac River Project



Additional Slides



Raymond Coates Video

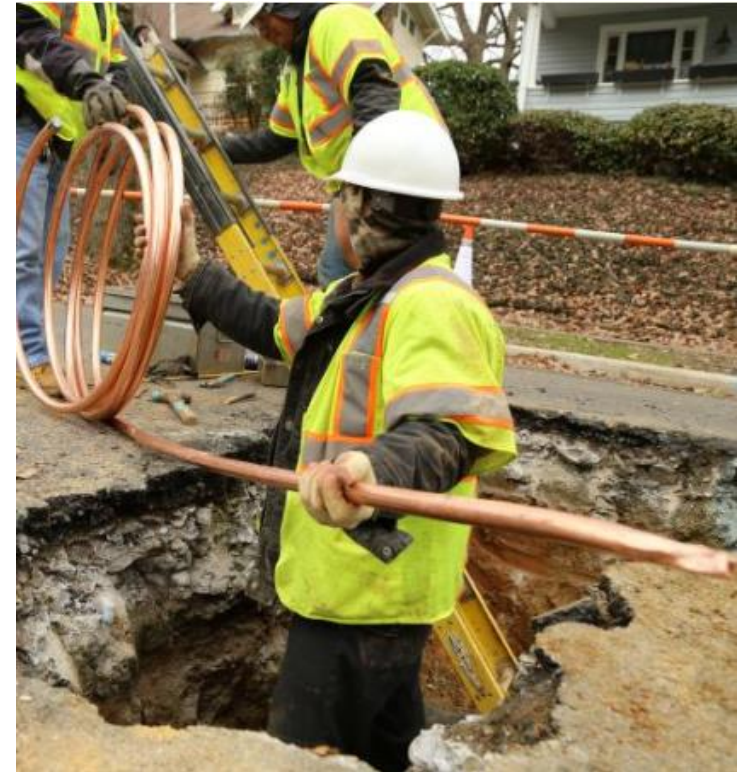




Lead Free DC: Overview and Future Considerations

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Draft 12/10/2019





Lead Free DC Vision

- “My hope is that we can move towards a plan where every inch of lead service line in the city is removed within the next 10 years.”

CEO David Gadis

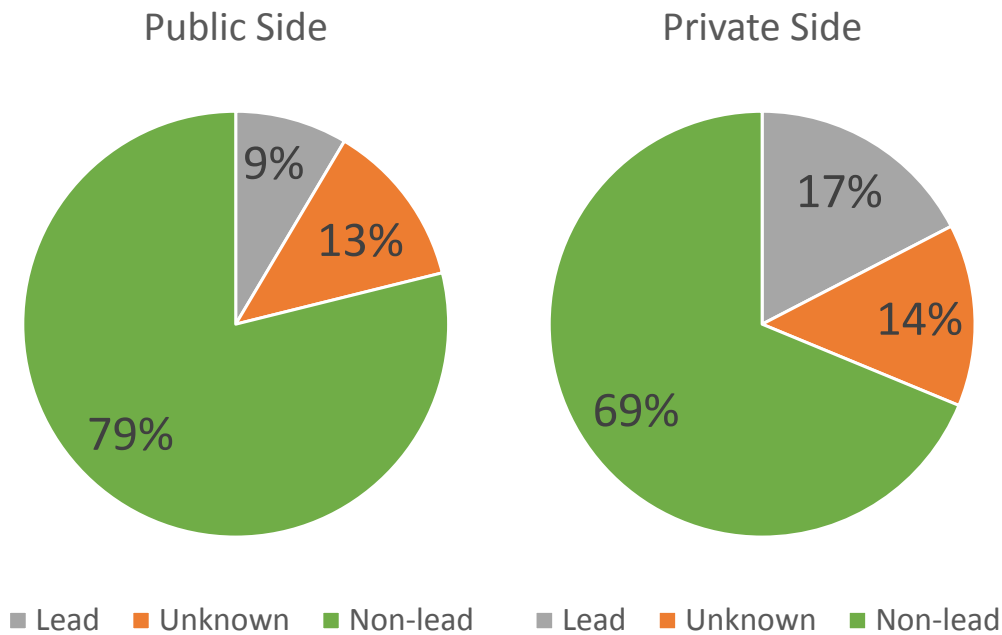
- Requires optimizing current programs and considering longer-term programmatic approaches





Material Inventory

DC Water updated our inventory to minimize unknowns and be conservative in assuming lead



	Public	Private
Lead	10,770	21,952
Unknown	15,886	17,465
Non-lead	99,549	86,788
Total	126,205	126,205

*Inventory as of 12/4/2019



Today's Lead Program

Continued Efforts

- Water quality reporting and free lead testing
- Material inventory maintenance and unknown reconciliation
- CIP, Emergency Repair & Voluntary Replacement Programs
- Lead profiling program



New Law as of 10/1/2019

- Assistance Fund Replacement Program to redress past partials (LPRAP, \$1.8 M)
- Funds to cover private-side replacement costs during CIP/Emergency (\$1 M)
- Provisions on customer education and outreach, testing for commercial customers, tenant and material disclosure
- Governed by MOU between DOEE and DC Water



Program Eligibility

Assistance Program to Redress Past Partial (LPRAP)

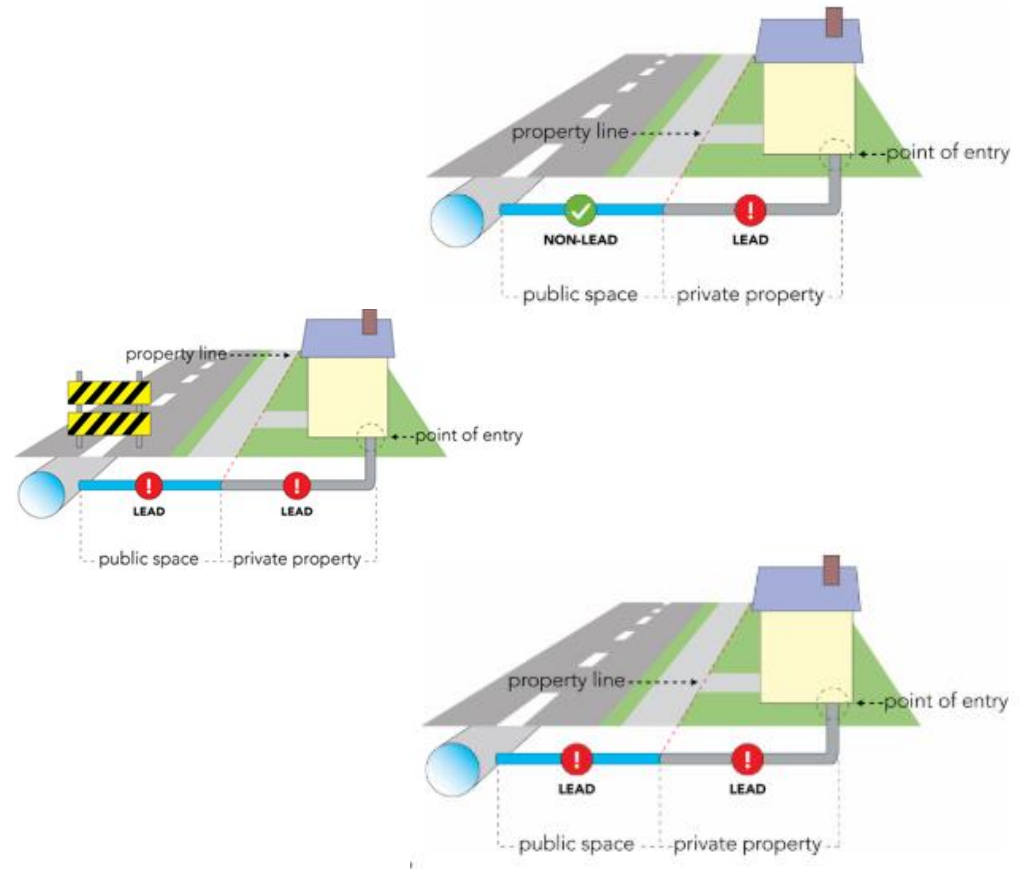
- If non-lead on public-side and lead on private-side, a new program will cover 50-100% of costs of replacement.
- Application available from DOEE

CIP & Emergency Repairs

- If any portion of private-side is lead, replacement is free.

Voluntary Replacement Program

- If both portions are lead and no work is planned, the customer is responsible for costs on private property





Replacement Progress

FY 2020 (as of 12/6/2019)	Full	Private Side Only	Current Pending
Assistance Fund	-	1	10 approved, 33 pending
Construction Projects (CIP)	8	22	N/A
Construction Projects (Emergency Repair)	4	1	N/A
Voluntary Replacement	30	0	901 queued
Total	42	24	-

FY 2019 (as of 9/30/2019)	Full	Private Side Only
Construction Projects (CIP)	29	1
Construction Projects (Emergency Repair)	20	0
Voluntary Replacement	355	21
Total	404	22



Community Engagement & Customer Outreach

- Mailer to approximately 11,000 properties eligible for LPRAP
- Newsletters, bill messages, traditional, and social media
- More than 20 community meetings and events
- Summit with plumbers and contractors
- Plans for targeted digital outreach & advertisements with DOEE





Collaboration With DOEE

Activity	DCW	DOEE
Receive and transfer appropriations through MOU		X
Issue regulations to implement Assistance Fund, including applications and timelines		X
Provide program information to customers (bill messages, inserts, other communication)	X	
Host website for and process applications on a rolling basis		X
Verify income and discounts available to applicants		X
Screen applications for reasonableness of cost estimates	X	
Submit invoices monthly for DC Water work through Program Two	X	
Certify completed Assistance Fund work	X	
Communicate and track communication to customers	X	
Coordinate regularly on project status and funds expended	X	X
Share digital outreach tracking on a quarterly basis	X	X
Develop operating manual and update as necessary	X	X
Community education	X	



Achieving Lead Free DC

- Elimination of lead service lines within the District requires building, funding, and executing a long-term, sustained program with committed partnerships

Considerations

- DC Water can't fund or execute on our own; estimated \$200-\$400 million to replace all public and private service lines
- Return on investment / public health impact given other sources of lead in sensitive groups (i.e. paint)
- Tradeoffs between addressing other water quality concerns
- Building customer participation is critical

Tools

- Government resources, agency partners, and leadership for coordinated approach
- Medical and academic community to understand risks and sources
- Community leaders, (Stakeholder Alliance, ANCs, and others) for education and growing public demand
- Legislation on disclosure needed to drive action on replacements

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

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT OPTION YEAR
FERRIC CHLORIDE
(Joint Use)**

Approval to exercise option year 4 for the supply and delivery of Ferric Chloride in the amount of \$5,000,000.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Carter & Carter Enterprises Inc. 212 Van Buren Street, NW Washington, D.C. 20012 LSBE	SUBS: N/A	PARTICIPATION: 100%
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DESCRIPTION AND PURPOSE

Original Contract Value:	\$3,325,000.00
Original Contract Dates:	01-10-2016—01-09-2017
No. of Option Years in Contract:	4
Option Year 1 – 2 Value:	\$6,881,775.00
Option Year 1 – 2 Dates:	01-10-2017—01-09-2019
Prior Modifications Value:	\$1,100,000.00
Prior Modifications Dates:	10-01-2018—01-09-2019
Option Year 3 Value:	\$4,900,000.00
Option Year 3 Dates:	01-10-2019—01-09-2020
Option Year 4 Value:	\$5,000,000.00
Option Year 4 Dates:	01-10-2020—01-09-2021

Purpose of the Contract:

This contract is to supply and deliver liquid ferric chloride to DC Water’s Blue Plains Advanced Wastewater Treatment Facility. Ferric chloride is used in the wastewater treatment process to remove phosphorous, suspended solids, and odor-causing compounds. All these functions are needed for DC Water to comply with its water discharge permits.

Contract Scope:

To ensure supply security, ferric chloride requirements were awarded to two companies with independent supply chains: Carter & Carter (C&C) and PVS Technologies. In option year 3, ferric chloride pricing began increasing due to higher costs and lesser availability of its raw materials. To lower the cost impact on DC Water yet still maintain supply security, C&C’s account share was increased to 90% from 70%, and PVS’s reduced to 10% from 30%.

Spending Previous Year:

Cumulative Contract Value:	01-10-2016 to 01-09-2020: \$16,206,775.00
Cumulative Contract Spending:	01-10-2016 to 11-30-2019: \$15,407,623.00

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, procedures and contract terms; and invoicing all meet expectations and requirements.

PROCUREMENT INFORMATION

Contract Type:	Good and Services	Award Based On:	Best Value
Commodity:	Ferric Chloride	Contract Number:	15-PR-WWT-53A
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	45.15%	\$2,257,500.00
Washington Suburban Sanitary Commission	39.61%	\$1,980,500.00
Fairfax County	9.76%	\$488,000.00
Loudoun Water	4.74%	\$237,000.00
Other (PI)	0.74%	\$37,000.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$5,000,000.00


 _____ / 12/5/19
 Aklile Tesfaye Date
 VP of Wastewater Operation


 _____ / 12/9/19
 Dan Bae Date
 VP of Procurement and Compliance


 _____ / 12/10/19
 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 AWARD

Supply and Delivery of Methanol

(Joint Use)

Approval to execute a contract for the supply and delivery of methanol in the amount of \$7,000,000.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Colonial Chemicals, Inc. 916 West Lathrop Avenue Savannah, GA 31415	SUBS: N/A	PARTICIPATION: N/A
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DESCRIPTION AND PURPOSE

Base Period Contract Value:	\$7,000,000.00
Base Contract Period:	1 Year
No. of Option Years:	2
Anticipated Contract Start Date:	01-13-2020
Anticipated Base Period Completion Date:	01-12-2021
Proposal Closing Date:	07-31-2019
Proposals Received:	3
Proposal Price Range:	\$0.996/gallon - \$1.243/gallon
Preference Points or Discount Received:	None

Purpose of the Contract:

The purpose of this contract is to supply and deliver methanol to DC Water's Blue Plains Advanced Wastewater Treatment Facility. Methanol is the carbon source used as a nutrient for bacteria in the Nitrification section, where nitrogen is removed from wastewater. Nitrogen removal is critical and therefore consistent and secure supply of methanol is required.

Contract Scope:

Supply was awarded to two companies with independent supply chains. 90% of DC Water's requirements was awarded to Colonial Chemical (19-PR-DWT-21A, this request), and 10% to Mitsubishi International (19-PR-DWT-21B). Blue Plains is projected to consume approximately 6,400,000 gallons of the methanol during base year.

Supplier Selection:

Three companies responded to an RFI intended to identify firms that can supply DC Water's methanol requirements. Each is known to DC Water and can meet all requirements. DC Water negotiated with all three suppliers, and the final selections were made based on best and final offers (BAFO) and best value. The requested base year funding has a 10% contingency in case plant throughput is greater than forecasted.

No LBE/LSBE participation.

PROCUREMENT INFORMATION

Contract Type:	Good and Services	Award Based On:	Lowest Cost
Commodity:	Chemical	Contract Number:	19-PR-DWT-21A
Contractor Market:	Open Market		

BUDGET INFORMATION

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

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	45.15%	\$3,160,500.00
Washington Suburban Sanitary Commission	39.61%	\$2,772,700.00
Fairfax County	9.76%	\$683,200.00
Loudoun Water	4.74%	\$331,800.00
Other (PI)	0.74%	\$51,800.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$7,000,000.00

 / 12/15/19
 Aklile Tesfaye Date
 VP of Wastewater Operations

 / 12/9/19
 Dan Bae Date
 VP of Procurement and Compliance

 / 12/10/19
 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 AWARD
For Temporary Staffing Services
(Joint Use - Indirect)**

Approval to execute contract award for Temporary Staffing Services in the amount of \$1,618,558.34.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: KLSL Consulting, LLC 5335 Wisconsin Avenue Suite #440 Washington, DC 20015 (LSBE)	SUBS:	PARTICIPATION: 100%
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DESCRIPTION AND PURPOSE

Original Contract Value: \$1,618,558.34
 No. of Option Years: 0
 Anticipated Contract Start Date: 01-06-2020
 Anticipated Completion Date: 01-31-2021
 Proposals Received: 4
 Proposal Price Range: \$1,618,510.40 - \$2,204,476.56
 Preference Points Received: 10

Purpose of the Contract:

To supply Temporary Staffing Services to the Fleet Department for fleet maintenance personnel.

Contract Scope:

Eighteen fleet maintenance personnel are currently provided under contract with Centerra. That contract will expire on 01/09/2020. This contract is to ensure the maintenance staff continue with DC Water by transferring their employment from Centerra to KLSL, a temporary staffing agency.

Proposals Received: (All firms are LSBE.)

KLSL Consulting, LLC 5335 Wisconsin Avenue, Suite #440 Washington, DC 20015	MB Staffing, LLC 819 7 th Street, Suite #311 Washington, DC 20001
Premier Staffing 4640 Forbes Boulevard, Suite #200A Lanham, MD 20706	The Mind Finders 1200 18 th Street, Suite #650 Washington, DC 20036

Selection:

Proposals were requested from four temporary staffing agencies. KLSL Consulting, LLC was selected based on the lowest hourly rate submitted for the positions.

PROCUREMENT INFORMATION

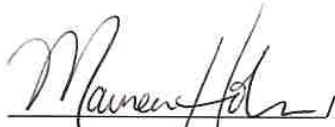
Contract Type:	Fixed Hourly Rate	Award Based On:	Lowest Price
Commodity:	Good and Services	Contract Number:	20-PR-DFM-18
Contractor Market:	Open Market with Preference Points for LBE and LSBE Participation		

BUDGET INFORMATION


Funding:	Operating	Department:	Fleet
Project Area:	DC Water Wide	Department Head:	Tim Fitzgerald

ESTIMATED USER SHARE INFORMATION

User – Operating	Share %	Dollar Amount
District of Columbia	84.61%	\$1,369,462.21
Washington Suburban Sanitary Commission	11.11%	\$179,821.83
Fairfax County	2.74%	\$44,348.50
Loudoun Water	1.33%	\$21,526.83
Other (PI)	0.21%	\$3,398.97
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,618,558.34



 Maureen Holman Date
 EVP Administration



 Dan Bae Date
 VP of Procurement and Compliance



 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 PURCHASE ORDER FUNDING
For Telecommunication Services
(Joint Use)**

This action is to fund Purchase Orders for FY20 Telecommunication Services. \$342,832.00 for GSA Agreement GS35F0119P with Verizon Wireless, and \$1,419,668.00 for GSA Agreement GS11T08BJD6001 for Verizon Inc. This action totals \$1,762,500.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Verizon Inc. 2055 L St. NW Washington DC, 20036	N/A	N/A
Verizon Wireless 10170 Junction Drive, Suite 200 Annapolis Junction, MD 20701	N/A	N/A

DESCRIPTION AND PURPOSE

	<u>Verizon</u>	<u>Verizon Wireless</u>
Funding Value:	\$1,419,668.00	\$342,832.00
Funding Dates:	10-01-2019 – 09-30-2020	10-01-2019 – 09-30-2020

Purpose of the funding:

To supply Analog Telephone Services, Wireless Internet Services, SCADA Network System, Transparent LAN Services (TLS) Security Service, Data Network Circuits and other Telecommunication Services throughout the Authority.

Funding action:

This funding is so DC Water can continue to ride the GSA agreements for telecommunication services provided by Verizon and Verizon Wireless (GSA Agreements: GS35F0119P and GS11T08BJD6001). These funds are to provide telecommunication services for FY20.

Spending Previous Year:

Verizon Previous Year Spend: 11-29-2018 to 11-29-2019: \$ 1,609,237.27
Verizon Wireless Previous Year Spend: 11-29-2018 to 11-29-2019: \$ 296,448.08

Contractor's Past Performance:

According to the Information Technology Department, the supplier's quality of services and timeliness of deliverables, conformance to DC Water's policies, procedures and contract terms, and invoicing; all meet expectations and requirements.

No LSBE Participation

PROCUREMENT INFORMATION

Contract Type:	GSA	Award Based On:	Riding GSA Contract
Commodity:	Good and Services	Contract Number:	GS35F0119P; GS11T08BJD6001
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Operating	Department:	Information Technology
Project Area:	DC Water Wide	Department Head:	Thomas Kuczynski

ESTIMATED USER SHARE INFORMATION

User – Operating	Share %	Dollar Amount
District of Columbia	84.61%	\$1,491,251.25
Washington Suburban Sanitary Commission	11.11%	\$195,813.75
Fairfax County	2.74%	\$48,292.50
Loudoun Water	1.33%	\$23,441.25
Other (PI)	0.21%	\$3,701.25
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,762,500.00


 _____, 12/6/19
 Armon Curd Date
 EVP, Customer Experience


 _____, 12/6/19
 Dan Bae Date
 VP of Procurement and Compliance


 _____, 12/11/19
 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

ENGINEERING SERVICES:

**Wastewater Treatment Program Manager II
(Joint Use)**

Approval to execute an architectural and engineering services agreement in the amount not to exceed \$25,000,000.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
AECOM Services of DC A Professional Corporation 1101 Connecticut Avenue, N.W. Suite 750 Washington, D.C. 20036 <u>Headquarters</u> Arlington, VA 22201	The Allied Companies, LLC Washington, D.C.	MBE 7.5%
	PEER Consultants, P.C. Washington, D.C.	MBE 5.5%
	Cube Root Corporation Washington, D.C.	MBE 5.0%
	EPCM, Inc. Burke, VA	MBE 4.8%
	Davis Brothers Construction Co., Inc Richmond, VA	MBE 3.0%
	Delon Hampton & Associates Washington, D.C.	MBE 3.0%
	Savin Engineers, P.C. Baltimore, M.D.	MBE 0.2%
	Rohadfox Constr. Control Services Atlanta, GA	WBE 2.3%
	McKissack & McKissack Washington, D.C.	WBE 1.5%
	Sigma Associates, Inc. Washington, D.C.	WBE 1.0%
	SZ PM Consultants Inc. Washington, D.C.	WBE 0.2%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed: \$25,000,000
 Contract Time: 1278 Days (3 Years, 6 Months)
 Anticipated Contract Start Date: 02-01-2020
 Anticipated Contract Completion Date: 08-02-2023

Other firms submitting proposals/qualification statements: None

Purpose of the Contract:

To support DC Water's planning and execution of its Capital Improvement Program (CIP) and to assist various DC Water Departments in matters requiring engineering or technical expertise, CIP program controls, design management and construction management. It is the intent of DC Water to develop in-house resources to provide routine, ongoing services, and the Waste Water Treatment Program Manager (WTPM) II will assist DC Water in this transition by transferring all program related systems, processes, tools and information to DC Water and/or its designee/s prior to the conclusion of the Contract. In addition, the WTPM II will help build capacity and capability within DC Water throughout the duration of the Contract. This will include identifying areas where DC Water resources are required, provide training/knowledge transfer, and staff augmentation to ensure a smooth transition.

Contract Scope:

- To provide program management services pertaining to the implementation of a significant Capital Improvement Program for DC Water facilities.
- To manage task order construction contracts.
- To manage Project Design Engineers (PDE) under contract to the Authority.
- To update and Integrate the Blue Plains 2016 Facilities Master Plan and the March 2017 Blue Plains Asset Management Plan.
- To assist the Authority in the update of design standards.
- To assist with the pre-treatment program.
- To assist DC Water with evaluating alternative energy generation/energy savings opportunities.
- To provide technical expertise in planning, program controls, engineering, design and construction.
- To transfer knowledge to DC Water staff related to proven successes.
- To assist DC Water with the transition to in-house resources for routine on-going services.

PROCUREMENT INFORMATION

Contract Type:	Cost Plus Fixed Fee	Award Based On:	Highest Ranking Score
Commodity:	Professional Services	Contract Number:	DCFA #503-WSA
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Wastewater Engineering
Service Area:	Wastewater Treatment	Department Head:	David Parker
Project:	A2, AL, AM, GP, FQ, NG, RH		

ESTIMATED USER SHARE INFORMATION

O Street & Stormwater Pump Stations

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 862,000.00
Total Estimated Dollar Amount	100.00%	\$ 862,000.00

Main Pump Station


User	Share %	Dollar Amount
District of Columbia	89.70%	\$ 976,833.00
Washington Suburban Sanitary Commission	10.30%	\$ 112,167.00
Total Estimated Dollar Amount	100.00%	\$ 1,089,000.00

Blue Plains

User	Share %	Dollar Amount
District of Columbia	41.22%	\$ 9,500,797.80
Washington Suburban Sanitary Commission	45.84%	\$10,565,661.60
Fairfax County	8.38%	\$ 1,931,506.20
Loudoun County & Potomac Interceptor	4.56%	\$ 1,051,034.40
Total Estimated Dollar Amount	100.00%	\$23,049,000.00

Combined Allocation

User	Share %	Dollar Amount
District of Columbia	45.36%	\$11,339,630.80
Washington Suburban Sanitary Commission	42.71%	\$10,677,828.60
Fairfax County	7.73%	\$ 1,931,506.20
Loudoun County & Potomac Interceptor	4.20%	\$ 1,051,034.40
Total Estimated Dollar Amount	100.00%	\$25,000,000.00


 Leonard R. Benson
 SVP and Chief Engineer
 Date 1/12/10/19


 Matthew T. Brown
 CFO and EVP
 Finance & Procurement
 Date 12/11/19


 Dan Bae, VP
 Procurement & Compliance
 Date 1/12/10/19


 David L. Gadis
 CEO & General Manager
 Date

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

ACTION REQUESTED

**PROGRESSIVE DESIGN-BUILD CONTRACT
REHABILITATION OF THE PI BETWEEN MH31 AND MH30
(Joint Use)**

Approval to execute a progressive design-build contract not to exceed \$2,561,444.00 for Phase I Design.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Ulliman Schutte Construction, LLC 9111 Springboro Pike Miamisburg, OH 45342	Browne E&C Services, Inc Cincinnati, OH	MBE 8.1%
	Shrewsbury & Assoc. LLC Washington, DC	MBE 7.8%
	River to Tap, Inc. Dunwoody, GA	MBE 4.2%
	Savin Engineers, PC Landover, MD	MBE 2.9%
	JCK Underground, Inc. Boston, MA	MBE 1.5%
	SZ PM Consultants Inc. Washington, DC	MBE 0.7%
	DMY Engineering Consultants, Inc. Dulles, VA	MBE 0.4%
	Dranby Environmental Consulting Richmond, VA	WBE 4.6%
	DP Consultants, Inc. Washington, DC	WBE 2.3%
	Precision Measurements, Inc. Chantilly, VA	WBE 1.1%

* This is a progressive design-build contract. Following completion of Phase I (60% design development) The contractor will submit a price proposal for Phase II (Design Completion and Construction) including demonstration of MBE/WBE good faith efforts to meeting or exceed the MBE/WBE Fair Share Objectives.

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	\$ 2,561,444.00
Contract Time:	305 Days
Anticipated Contract Start Date (NTP):	02-03-2020
Anticipated Contract Completion Date:	12-03-2020
Qualifications Due Date:	02-13-2019
Proposals Received:	08-20-2019
Number of Firms Submitting Qualifications	6
Number of firms Shortlisted	3

Purpose of the Contract:

The Potomac Interceptor(PI) is a critical component of DC Water's sewer collection system serving Loudoun, Fairfax and Montgomery Counties. The purpose of this contract is to provide design and construction services to renew three pipe segments adjacent to PI manhole 31. Work will be completed in two phases. This fact sheet is for Phase I.

- Phase I: Design development to 60%.
- Phase II Completion of design, construction and restoration (scheduled to be awarded upon completion of Phase I and subject to an agreed price of Phase II)

Contract Scope:

Phase I design development to 60% will consider the following:

- Maintenance of 35 to 95 Million Gallons per Day (MGD) of flow during construction.
- Replacement of a 6-foot diameter, approximately 35 feet deep sewer manhole (MH31).
- Temporary extension of the existing odor control system at Manhole 31 to serve the temporary bypass pumping locations during construction.
- Rehabilitation of approximately 150 linear feet of 78-inch Reinforced Concrete Pipe (RCP).
- Replacement of approximately 200 linear feet of 54-inch RCP and to install an energy reducing device.
- Rehabilitation of approximately 200 linear feet of 54-inch RCP.
- Implement the use of corrosion resistant materials.
- Permitting assistance

Federal Grant Status:

- Construction Contract is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Cost Plus Not to Exceed	Award Based On:	Qualifications, Technical and delivery Proposals
Commodity:	Design and Construction	Contract Number:	190010
Contractor Market:	Open Market		


BUDGET INFORMATION

Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Sanitary	Department Head :	Craig Fricke
Project:	LZ		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	0.00%	\$
Washington Suburban Sanitary Commission	46.47%	\$ 1,190,303.03
Fairfax County	26.01%	\$ 666,231.58
Loudoun County & Potomac Interceptor	27.52%	\$ 704,909.39
Total Estimated Dollar Amount	100.00%	\$ 2,561,444.00


 Leonard R. Benson
 SVP and Chief Engineer
 Date 12.11.19


 Matthew T. Brown
 CFO and EVP
 Finance & Procurement
 Date 12/11/19


 Dan Bae, VP
 Procurement & Compliance
 Date 12/11/19

 David L. Gadis
 CEO & General Manager
 Date

Status Report of Public Fire Hydrants for DC Water Services Committee - December 2, 2019

	September Cmte. Report (Sep 03, 2019)	October Cmte. Report (Oct 02, 2019)	November Cmte. Report (Nov 04, 2019)	December Cmte. Report (Dec 02, 2019)
Public Fire Hydrants:	9,772	9,771	9,754	9,688
In Service:	9,723	9,727	9,703	9,634
Marked Out-of-Service (OOS)	49	44	51	54
OOS - defective requiring repair/replacement	38	31	35	38
% OOS requiring repair or replacement (DC Water goal is 1% or less OOS)	0.39%	0.32%	0.36%	0.39%
OOS - due to inaccessibility or temp construction work	11	13	16	16

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 2, 2019 54

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	2	4	1	3	2	1	2	15
Needs Valve Investigation for Low Flow/Pressure or Shut Test for Replacement	0	0	0	0	1	0	5	6
Needs Replacement	0	0	0	4	2	3	8	17

Defective 38

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	0	0	3	3	5	2	13
Construction* - OOS	0	0	0	0	0	0	0	0
Obstructed Hydrant – OOS hydrant due to operation impeded by an obstruction.	0	0	0	0	0	0	3	3

Others 16

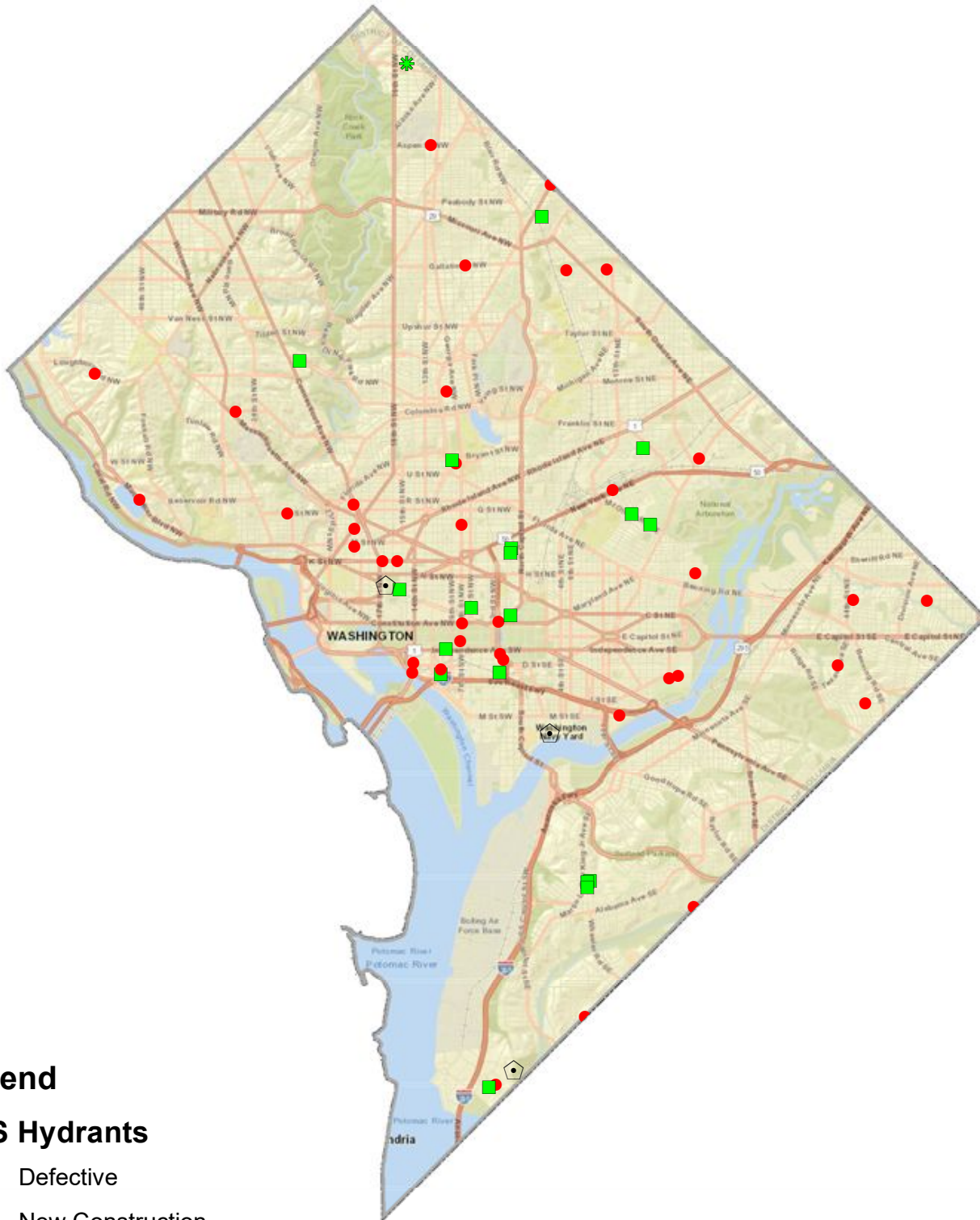
*Fire hydrants not accessible due to construction activities. Also includes new hydrants which have not yet been commissioned or old hydrants which will be abandoned as part of ongoing construction projects.

Status of Private Fire Hydrants-Based on FEMS Inspection Reporting

Private Hydrants:	1,298
• In Service:	1,159
• Out-of-Service (OOS):	139

Map of Public Out-of-Service Hydrants

December 03, 2019



Legend

OOS Hydrants

- Defective
- * New Construction
- ⬠ Obstructed
- Temporary