

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

*Meeting of the
Environmental Quality and Operations Committee*

*HQO-1385 Canal Street SE, Washington DC 20003
Thursday, March 19, 2020
9:30 a.m.*

- | | | | |
|------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| | I. | Call to Order | Adam Ortiz
Chair |
| 9:30 a.m. | II. | BPAWTP Status Update | Aklile Tesfaye |
| | | 1. BPAWTP Performance | |
| 9:45 a.m. | III. | Action Items | Joel Grosser/Len Benson |
| | | <u>Joint Use</u> | |
| | | 1. Contract No.: 15-PR-DMS-54 – Crane/Hoist Repair & Maintenance, Reading Crane & Engineering | |
| | | 2. Contract No.: 17-PR-DIT-06 A, C, G, H, J, K, L, M – IT Professional Services, Advance Digital Systems, Ampcus Inc., Networking for Future, Inc., Peak Technology Solutions, Inc., Susan Fitzgerald & Associates, Inc., Sankar Inc., Vigilant Technologies, LLC., v-Tech Solution, Inc. | |
| | | 3. Contract No.: 18-PR-DFM-18 – Utility Fleet Parts Supply, Parts Authority Southern | |
| | | 4. Contract No.: 19-PR-DWT-13 – Supply and Delivery of Sodium Bisulfite, PVS Chemical Solutions | |
| | | 5. Contract No.: 19-PR-DWT-14 – Belt Press Dewatering Polymer, Polydyne, Inc. | |
| | | 6. Contract No.: 19-PR-DWT-15 – Centrifuge Pre-Dewatering Polymer, Polydyne Inc. | |
| | | 7. Contract No.: 20-PR-WWT-32 – Bloom Sales and Marketing, Blue Drop, LLC | |
| | | 8. Contract No.: 20-PR-DET-35 - Extension of Commercial Lease for Warehouse Space, BREIT Industrial Canyon, LLC | |
| | | 9. Contract No.: 150030 – Raw Wastewater Pump Station 2 Upgrades, American Contracting & Environment Services, Inc. | |

Non-Joint Use

1. Contract No.: 19-PR-DSS-01 – Hauling & Disposal of Excavation Spoils & Debris, Ganntek
2. Contract No.: 170040 - Storm Diameter Water Main Replacement 13D, Sagres Construction Corporation
3. Rehabilitation of The Kenilworth Stormwater Pumping Station, DC Dept of Transportation

10:20 a.m. IV. **Asset Management and SCADA Improvements** Kenrick St. Louis

10:35 a.m. V. **Other Business / Emerging Issues**

10:40 a.m. VI. **Executive Session***

10:45 a.m. VII. **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. **[On Current Agenda]**
2. SVP, CIP Project Delivery: Include risks associated with a potential privatization of the Washington Aqueduct and its impact on rates as part of the Risks and Sensitivities analysis. **[Target: May 2020]**
3. VP, DC Clean Rivers: Schedule a tour of GI Sites **[Target: May 2020]**
4. VP, Wastewater Operations: To provide a cost of removing screenings from TDPS **[On Current Agenda - Included in BPAWTP Report]**



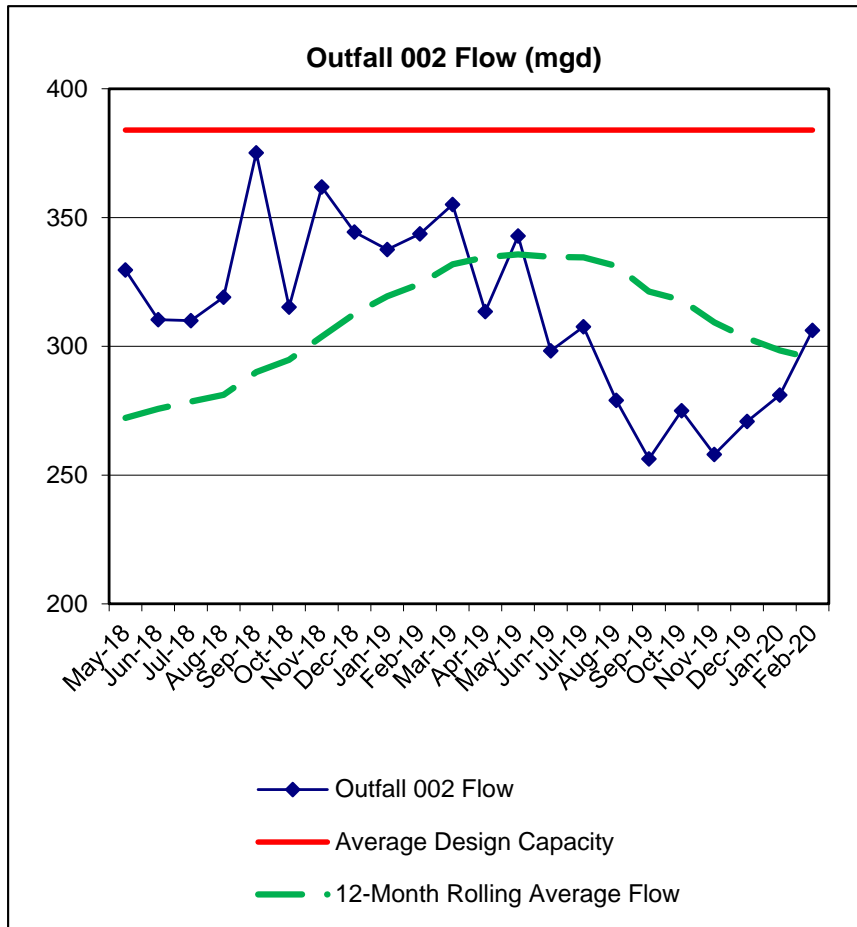
Blue Plains Advanced Wastewater Treatment Plant Performance Report

Environmental Quality and Operations Committee

March 2020



Complete Treatment Performance



- ❑ 12-Month Rolling Average Flow, ending January 2020, is below 300 MGD
- ❑ 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



Wet Weather Treatment Facility Performance

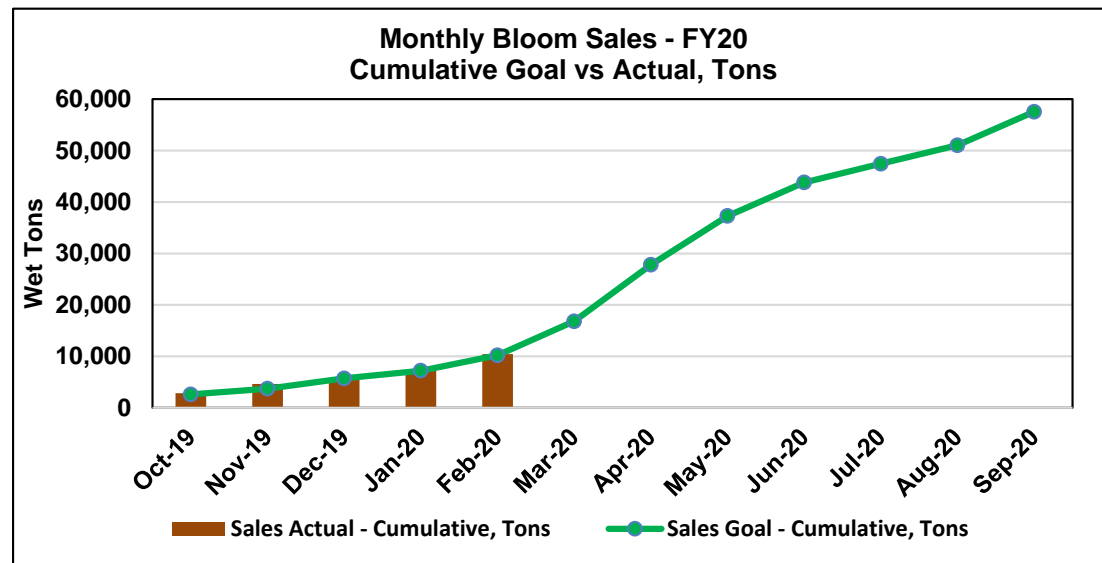
	January 2020	February 2020
Total Precipitation, inches	2.79	3.21
Total Volume Captured and Treated, MG*	150	130
➤ Directed to Complete Treatment, MG	150	130
➤ Discharged to Outfall 001, MG	0	0
Measured Overflow, MG	0	0.6
Percent Captured, %	100	99.5

*MG = Million Gallons



Class A Biosolids Quality & Bloom Marketing

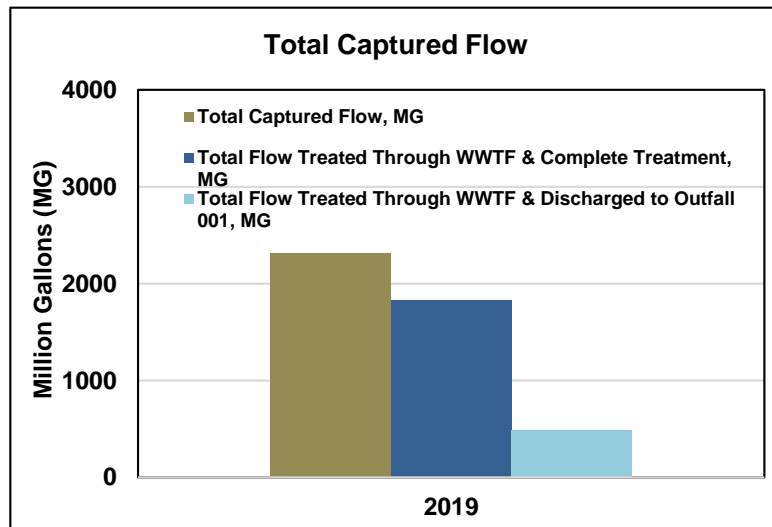
- ❑ All biosolids produced met Class A Exceptional Quality (EQ) requirements required by EPA.
- ❑ Fecal Coliform values on daily process monitoring samples remained below the 1,000 MPN/gram required for Class A biosolids - consistent with the low levels measured historically
- ❑ Bloom Marketing
 - ❑ February 2020: 3,011 tons
 - ❑ FY20 (through end of February 2020): 10,435 tons (17.4% of 60,000 goal)





Wet Weather Treatment Facility O&M Cost

“VP, Wastewater Operations: To provide a cost of removing screenings from TDPS”



- ❑ 2019 Performance
 - ❑ 2,321 MG of combined flow captured and treated through the Wet Weather Treatment Facility (93.4% capture)
 - ❑ 2,334 tons of screens and grit (trash, debris, sediment) removed
 - ❑ Total cost of processing and hauling ~ \$175,000



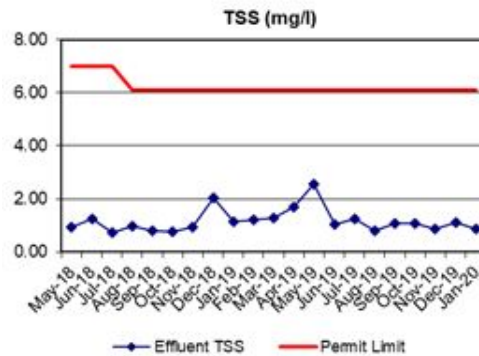
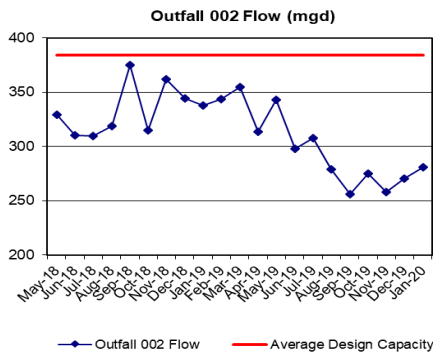
Wet Weather Treatment Facilities O&M Cost

- ❑ Average Year
 - ❑ Number of Wet Weather Events ~ 40
 - ❑ Total Influent Volume ~ 2,569 MG
 - ❑ Total Hours of Activation ~ 480

Description	Cost, \$	Note
Personnel	869,100	O&M including Process Engineering
Chemicals	1,514,700	Ferric Chloride, Sodium Hydroxide, Polymer, Sodium Hypochloride, Sodium Bisulfite
Occupancy	1,074,600	Electricity :10,800 MWH/year Natural Gas: 160,000 Therms
Other	1,952,800	Solids processing, contracts (equipment maintenance and residuals hauling), parts, other supplies
Total	5,411,200	

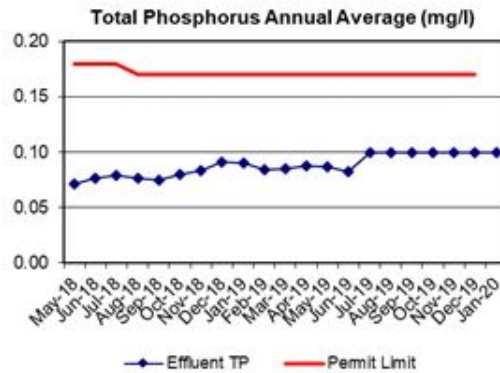
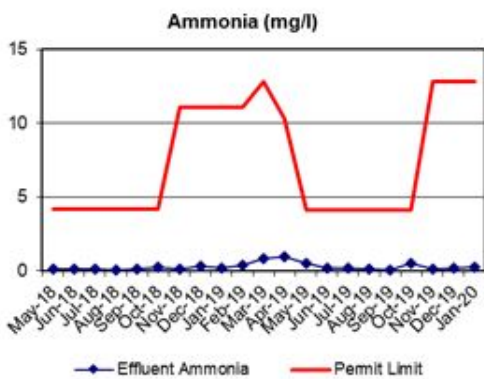
BLUE PLAINS ADVANCED WASTEWATER TREATMENT PLANT PERFORMANCE REPORT – JANUARY 2020

Average plant performance for the month of January 2020 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 281 MGD. There was no treated captured combined flow directed to Outfall 001 during this period. The following figures compare the plant performance with the corresponding NPDES permit limits.



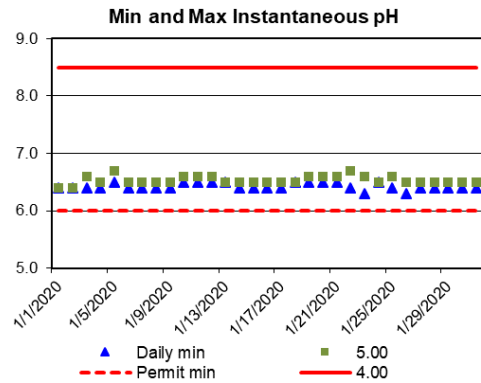
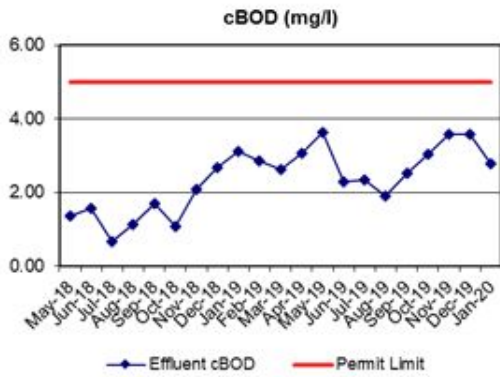
This graph illustrates the monthly average influent flow to the plant. The design average flow is 384 MGD. Blue Plains has a four-hour peak flow capacity of 555 MGD through complete treatment. Once the plant is at capacity, up to 225 MGD of additional captured combined system flow from the tunnel can 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 0.87 mg/L, which is below the 6.1 mg/L permit limit.



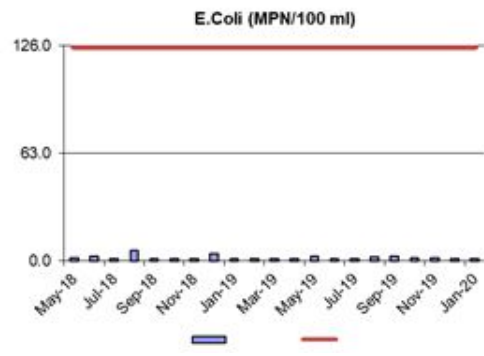
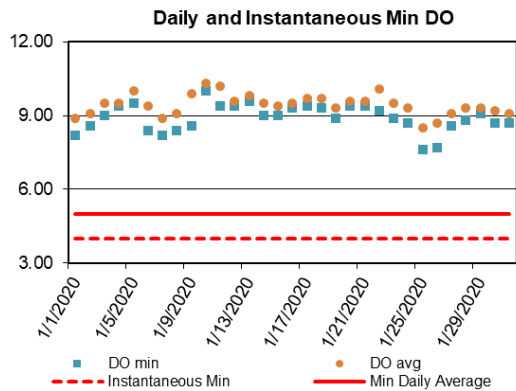
The Ammonia Nitrogen (NH₃-N) is a measurement of the nitrogen found in ammonia. For the month, effluent NH₃-N concentration averaged 0.27 mg/L and is below the 4.1 mg/L seasonal limit.

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 2.79 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 6.3 and 6.7 standard units, respectively. The pH was within the permit limits of 6.0 and 8.5 for minimum and maximum respectively.

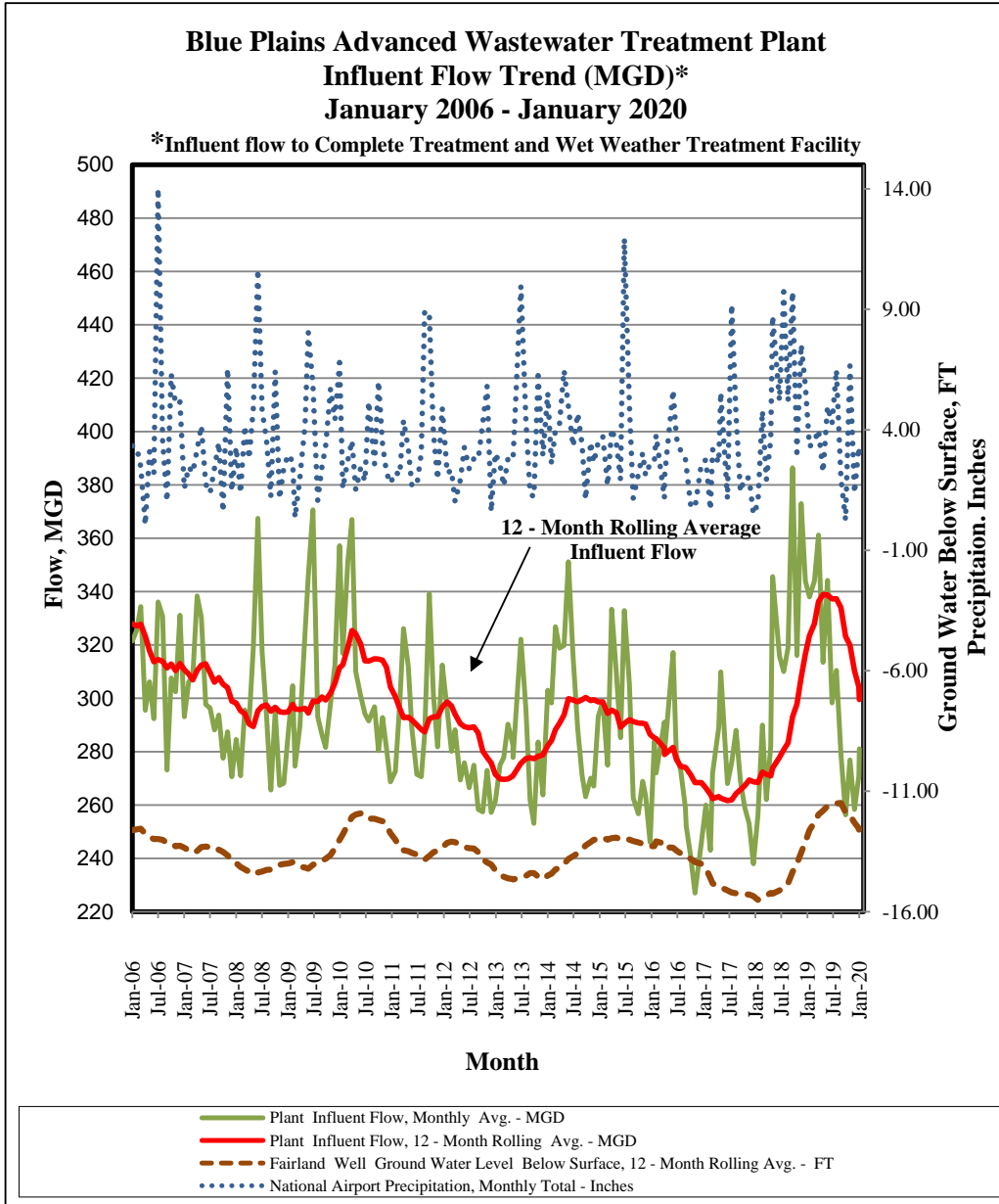


Dissolved Oxygen (DO) is a measure of the atmospheric oxygen dissolved in water. The DO readings for the month are within the permit limits. The minimum daily average is 8.5 mg/L. The minimum instantaneous DO reading is 7.6 mg/L. The minimum daily average and instantaneous permit limits are 5.0 mg/L 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 1.1 /100mL, and well below the permit limit.

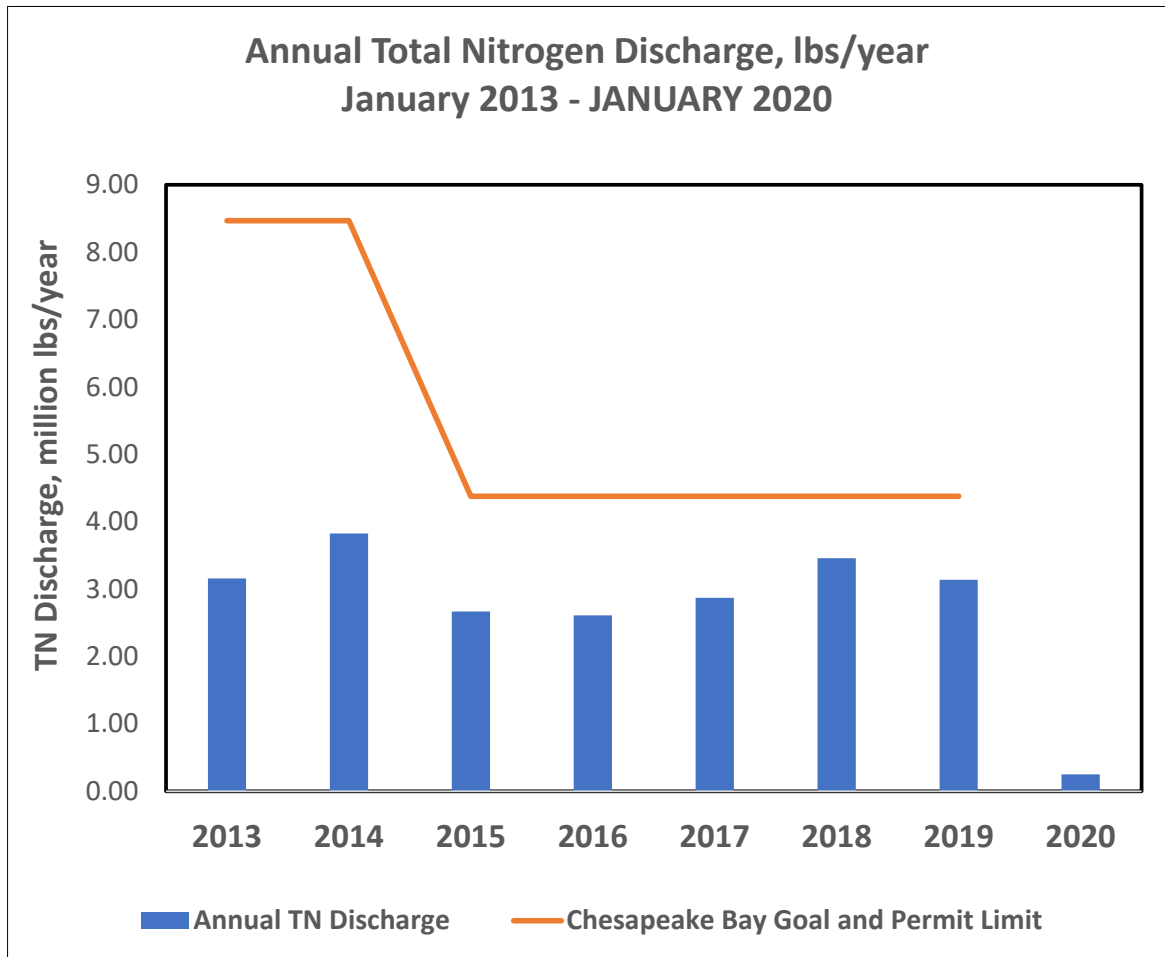
Plant Influent Flow Trend

The graph below shows a long-term influent flow trend to the plant ending January 2020. While for any given month the flow is weather dependent, the 12-month rolling average influent flow exceeded 300 MGD since November 2018.



Total Nitrogen (TN) Removal – Performance

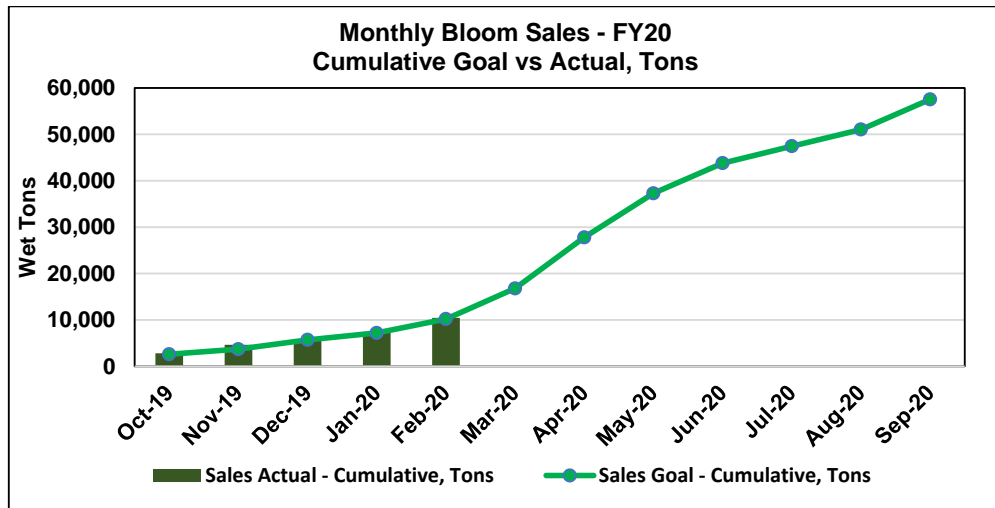
The graph below shows total annual nitrogen discharge, in million pounds per year, over an 8-year period ending January 2020. In January 2020, the monthly average TN concentration and total load in the complete treatment effluent were 3.37 mg/L and 250,742 lbs., respectively. The total pounds of nitrogen discharged in the complete treatment effluent during the current calendar year (through January 2020) is 250,742 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 303 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.



RESOURCE RECOVERY

In February, biosolids hauling averaged 444 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

During the month, a total of 3,011 tons of bloom was marketed. The total tons marketed during the fiscal year (through the end of February 2020) is 10,435 wet tons or 17.4% of the 60,000 tons goal.



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

ACTION REQUESTED

GOODS AND SERVICES CONTRACT OPTION YEAR

CRANE/HOIST REPAIR & MAINTENANCE

(Joint Use)

Approval to execute Option Year 4 and add funding to the subject contract for repair and maintenance of cranes and hoists in the amount of \$375,000.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Reading Crane & Engineering 11 Vanguard Drive Reading, PA 19606	SUBS: N/A	PARTICIPATION: N/A
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DESCRIPTION AND PURPOSE

Original Contract Value:	\$224,847.50
Original Contract Dates:	03-02-2016 – 03-01-2017
No. of Option Years in Contract:	4
Prior Modifications Value:	\$40,000.00
Prior Modifications Dates:	11-15-2016 – 03-1-2017
Option Year 1 Value:	\$276,633.65
Option Year 1 Dates:	03-02-2017 – 03-01-2018
Option Year 2 Value:	\$230,000.00
Option Year 2 Dates:	03-02-2018 – 03-01-2019
Option Year 3 Value:	\$212,000.00
Option Year 3 Dates:	03-02-2019 – 03-01-2020
Option Year 4 Value:	\$375,000.00
Option Year 4 Dates:	03-02-2020 – 3-01-2021

Purpose of the Contract:

This contract provides DC Water’s Department of Maintenance Services (DMS) and Department of Pumping Operations (DPO) with annual inspection, testing and repair service of approximately 200 cranes and hoists used at various DC Water facilities.

Contract Scope:

The Contractor provides all materials, tools, equipment and labor necessary to perform crane and hoist inspections and repairs at DC Water facilities. All inspections will adhere and comply with Occupational Safety and Health Administration (OSHA), American Society of Mechanical Engineers (ASME), Crane Manufacturers Association of America (CMAA) and American National Standards Institute (ANSI) regulations. Critical electrical, mechanical and structural components for sound safety and operating conditions will also be checked.

DMS is requesting an additional contract amount of \$375,000 to fund the contract for these services through end of Option Year 4. DPO has funds available for their requirements through end of Option Year 4. Additional funding is needed for ongoing inspection and maintenance support of the cranes and hoists, including the addition of the Wet Weather Treatment Facility cranes.

Spending Previous Year:

Cumulative Contract Value:	03/02/2016 to 03/01/2020: \$983,481.15
Cumulative Contract Spending:	03/02/2016 to 02/05/2020: \$955,573.02

Contractor’s Past Performance:

According to the COTR, the Contractor’s performance and quality of work all meet DC Water’s requirements.

No LSBE participation

PROCUREMENT INFORMATION


Contract Type:	Fixed Price	Award Based On:	Best Value
Commodity:	Maintenance Services	Contract Number:	15-PR-DMS-54
Contractor Market:	Open Market with Preference Points		

BUDGET INFORMATION

Funding:	Operating	Department:	DMS
Project Area:	DC Water Wide	Department Head:	Elkin Hernandez

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	45.15%	\$169,312.50
Washington Suburban Sanitary Commission	39.61%	\$148,537.50
Fairfax County	9.76%	\$36,600.00
Loudoun Water	4.74%	\$17,775.00
Other (PI)	0.74%	\$2,775.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$375,000.00

 / 3/4/20
 Akile Tesfaye
 VP, Wastewater Operations
 Blue Plains
 Date

 / 3/5/2020
 Matthew T. Brown
 EVP, Finance and Procurement
 Date

 / 3/4/2020
 Dan Bae
 VP, Procurement and Compliance
 Date

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

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

ACTION REQUESTED

GOODS AND SERVICES CONTRACT MODIFICATION

**IT Professional Services
(Joint Use)**

Approval to exercise Option Year three (3) of the IT Temporary Staffing Contracts in the amount of **\$6,750,676.00** to fulfill the Temporary IT Staffing needs within DC Water.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Advance Digital Systems* Fairfax, VA-22030	N/A	100%
Ampcus Inc.* Chantilly, VA 20151	N/A	100%
Networking for Future, Inc.* Washington, DC 20004	N/A	100%
Peak Technology Solutions, Inc.* Washington, DC 20036	N/A	100%
Susan Fitzgerald & Associates, Inc.* Washington, DC 20007	N/A	100%
Sankar Inc. Maple Grove, MN 55311	N/A	0%
Vigilant Technologies, LLC. Troy, MI 48084	N/A	0%
v-Tech Solution, Inc.* Washington, DC 20005	N/A	100%

***LBE/LSBE**

DESCRIPTION AND PURPOSE

Base Year Contract Value:	\$5,500,000.00
Base Year Contract Dates:	05-01-2017 – 04-30-2018
No. of Option Years in Contract:	3
Base Year Modifications Value:	\$2,889,000.00
Base Year Modifications Dates:	08-16-2017 – 04-30-2018
Option Year 1 Value:	\$390,000.00
Option Year 1 Dates:	05-01-2018 – 04-30-2019
Option Year 2 Value:	\$5,880,160.00
Option Year 2 Dates:	05-01-2019 – 04-30-2020
Option Year 3 Value:	\$6,750,676.00
Option Year 3 Dates:	05-01-2020 – 04-30-2021

Purpose and Scope of the Contracts:

Eight (8) contractors were selected from an open-market RFP to provide IT staff augmentation and professional services for long and short-term projects when it is not feasible for The Authority to hire permanent IT staff, or when specialized or unique skills are required. An Indefinite Delivery Indefinite Quantity (IDIQ) contract was executed with each of the above firms, and then DC Water requests IT temporary Staffing from among these eight approved firms when required.

The scope of the contracts includes Customer Information System (CIS) support, database administration, Maximo software upgrade support, SCADA support, and Project Management as outlined below:

<p>Maximo Software</p> <ul style="list-style-type: none"> - Integration of Kona Field Service - Maximo Anywhere for Plant Operations - Customer Information Billing System Integration 	<p>Local Area (LAN)/Wide Area Network (WAN)</p> <ul style="list-style-type: none"> - Supervisory Control and Data Acquisition System (SCADA) - Disaster Recovery - Daily Maintenance of internal and external network - Windows Administration <ul style="list-style-type: none"> • Remote Access • Support for Customer Info System • Daily maintenance of DC Water internal network • Storage Administration
<p>Geographical Information System (GIS)</p> <ul style="list-style-type: none"> - Integration of GIS with the Customer Billing System 	
<p>Project Management</p> <ul style="list-style-type: none"> - Live-Link Upgrade - Mobility Blue Plains Operations - Mobility Field Operations - Connected Drinking Fountains - Customer Information System - Zeus Project 	

This contract extension will allow DC Water to continue to use the contracts to fulfill IT professional and staff augmentation services requirements through April 30, 2021. A new Solicitation will be published and awarded before April, 2021.

Spending Previous Years:

Cumulative Contract Value: 05-01-2017 to 04-30-2020: \$14,659,160.00
 Cumulative Contract Spending: 05-01-2017 to 02-16-2020: \$14,080,655.20

Contractors' Past Performance:

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

PROCUREMENT INFORMATION

Contract Type:	Fixed Hourly Rate	Award Based On:	Competitive Bid; Highest Ratings
Commodity:	Professional Services	Contract Number:	17-PR-DIT-06 A, C, G, H, J, K, L, M
Contractor Market:	Open Market with Preference Points for LBE and LSBE Participation		

BUDGET INFORMATION

Funding:	Operating	Department:	IT, Customer Experience, DPO, Safety, People & Talent, and Risk Management
Project Area:	DC Water Wide	Department Head:	Armon Curd, Aklile Tesfaye, Maureen Holman

User – Operating	Share %	Dollar Amount
District of Columbia	84.61%	\$3,790,528.00
Washington Suburban Sanitary Commission	11.11%	\$ 497,728.00
Fairfax County	2.74%	\$ 122,752.00
Loudoun Water	1.33%	\$ 59,584.00
Other (PI)	0.21%	\$ 9,408.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$ 4,480,000.00


BUDGET INFORMATION

Funding:	Capital Equipment	Department:	IT
Project Area:	IT ESC / LSC Project	Department Head:	Armon Curd

User – Capital Equipment	Share %	Dollar Amount
District of Columbia	78.67%	\$ 1,786,340.81
Washington Suburban Sanitary Commission	16.18%	\$ 367,395.38

Fairfax County	3.30%	\$ 74,932.31
Loudoun Water	1.56%	\$ 35,422.55
Other (PI)	0.29%	\$ 6,584.96
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$ 2,270,676.00


 _____, 3/3/20
 Armon Curd Date
 EVP Customer Experience


 _____, 3/4/2020
 Dan Bae Date
 VP of Procurement and Compliance


 _____, 3/12/2020
 Matthew T. Brown Date
 CFO and EVP of Finance and Procurement

 David L. Gadis Date
 General Manager and CEO

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

ACTION REQUESTED

GOODS AND SERVICES CONTRACT OPTION YEAR

Utility Fleet Parts Supply

(Joint Use)

Request to exercise Option Year 1 thru 4 for the total not-to-exceed amount of \$3,000,000.00 for utility fleet replacement parts. Each option year will be awarded annually based on the availability of the funds and performance.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Parts Authority Southern, LLC 9731 Washington Blvd. North Laurel, MD 20723	Delcoline Inc. 4949 Lawrence St. Hyattsville, MD 20781 LSBE	33.3%
	K. Neal International Trucks Inc. 500 Tuxedo Rd Hyattsville, MD 20781	33.3%

DESCRIPTION AND PURPOSE

Original Contract Value:	\$600,000.00
Original Contract Dates:	04-15-2019 – 04-14-2020
No. of option Years in Contract:	4
Modification Value	\$50,000.00
Modification Dates	04-15-2019 – 02-01-2020
Option Year 1 Value:	\$750,000.00
Option Year 1 Dates:	04-15-2020 – 04-14-2021
Option Year 2 to Option Year 4 Value:	\$2,250,000.00
Option Year 2 to Option Year 4 Dates:	04-15-2021 – 04-14-2024

Purpose of the Contract:

This contract provides DC Water’s Department of Fleet Management with utility fleet replacement parts allowing Fleet Management to perform maintenance and repair services at their central and satellite maintenance locations.

Contract Scope:

DC Water’s Department of Fleet Management provides both centralized and satellite maintenance, repairs and parts storage for a very broad range of requirements. Replacement parts are required for DC Water’s tools, equipment, light, medium and heavy duty vehicles. The contractor provides the supply, delivery and consigned vendor owned inventory for the fulfillment of the utility fleet vehicle parts supply requirements.

Spending Previous Year:

Cumulative Contract Value:	04/15/2019 to 04/14/2020: \$650,000.00
Cumulative Contract Spending:	04/15/2019 to 01/30/2020: \$453,949.32

Contractors Past Performance:

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

PROCUREMENT INFORMATION

Contract Type:	Cost Plus Fixed Markup	Award Based On:	Highest Rated Proposal
Commodity:	Goods and Services	Contract Number:	18-PR-DFM-18
Contractor Market:	Open Market with Preference Points for LBE and LSBE participation		

BUDGET INFORMATION


Funding:	Operating	Department:	Fleet Management
Service Area:	Fleet Maintenance Facility	Department Head:	Timothy Fitzgerald

ESTIMATED USER SHARE INFORMATION


User	Share %	Dollar Amount
District of Columbia	84.61%	\$2,538,300.00
Washington Suburban Sanitary Commission	11.11%	\$333,300.00
Fairfax County	2.74%	\$82,200.00
Loudoun Water	1.33%	\$39,900.00
Other (PI)	0.21%	\$6,300.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$3,000,000.00

 / 3/4/2020

 Maureen Holman Date
 EVP of Administration

 / 3/9/2020

 Dan Bae Date
 VP of Procurement and Compliance

 / 3/12/2020

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

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

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

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT OPTION YEAR
Supply and Delivery of Sodium Bisulfite
(Joint Use)**

Approval to exercise option year 2 for the supply and delivery of sodium bisulfite in the amount of \$1,000,000.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: PVS Chemical Solutions, Inc. 10900 Harper Avenue Detroit, MI 48213	SUBS: N/A	PARTICIPATION: N/A
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DESCRIPTION AND PURPOSE

Original Contract Value:	\$700,000.00
Original Contract Dates:	04-16-2018—04-15-2019
No. of Option Years in Contract:	2
Option Year 1 Value:	\$757,500.00
Option Year 1 Dates:	04-16-2019—04-15-2020
Prior Modifications Value:	\$585,000.00
Prior Modifications Dates:	01-01-2019—04-15-2020
Option Year 2 Value:	\$1,000,000.00
Option Year 2 Dates:	04-16-2020—04-15-2021

Purpose of the Contract:

This contract is to supply and deliver sodium bisulfite to the Department of Wastewater Treatment (DWT) at DC Water. Sodium bisulfite removes residual chlorine from effluent water, and its use is required to meet environmental standards.

Contract Scope:

DWT adds sodium bisulfite to treated wastewater following disinfection with sodium hypochlorite and prior to discharging the effluent to the Potomac River. The hypochlorite leaves residual chlorine in the water, which is removed by sodium bisulfite. The NPDES permit from EPA regulations requires that the discharge from the plant has a non-detectable residual chlorine level.

This is the last option year for the contract, DC Water will initiate new sodium bisulfite solicitation to replace the current contract.

Spending Previous Year:

Cumulative Contract Value:	04-16-2018 to 04-15-2020: \$2,042,500.00
Cumulative Contract Spending:	04-16-2018 to 01-10-2020: \$2,026,011.00

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.

No LBE/LSBE participation in the contract award.

PROCUREMENT INFORMATION

Contract Type:	Good and Services	Award Based On:	Best Value
Commodity:	Sodium Bisulfite	Contract Number:	18-PR-DWT-13
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%	\$451,500.00
Washington Suburban Sanitary Commission	39.61%	\$396,100.00
Fairfax County	9.76%	\$97,600.00
Loudoun Water	4.74%	\$47,400.00
Other (PI)	0.74%	\$7,400.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,000,000.00

 / 3/10/20
 Aklile Tesfaye Date
 VP of Wastewater Operation

 / 3/10/2020
 Dan Bae Date
 VP of Procurement and Compliance

 / 3/11/2020
 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 YEAR

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

Approval to exercise option year 1 for the Belt Press Dewatering Polymer in the amount of \$1,803,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

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

Base Year Contract Value:	\$1,781,700.00
Base Year Contract Dates:	05-01-2019 – 04-30-2020
No. of Option Years in Contract:	2
Prior Modifications Value:	\$475,000.00
Prior Modifications Date:	01-18-2020 – 04-30-2020
Option Year 1 Value:	\$1,803,000.00
Option Year 1 Date:	05-01-2020 – 04-30-2021

Purpose of the Contract:

This contract is to supply and deliver belt press dewatering polymer to DC Water’s Blue Plains Advanced Wastewater Treatment Facility. This polymer conditions biosolids to help remove water in the Final Dewatering Facility at Blue Plains.

Contract Scope:

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

Spending Previous Year:

Cumulative Contract Value:	05-01-2019 to 04-30-2020: \$2,256,700.00
Cumulative Contract Spending:	05-01-2019 to 02-29-2020: \$2,238,349.00

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.

No LBE/LSBE participation

PROCUREMENT INFORMATION

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


BUDGET INFORMATION

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

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	45.15%	\$814,054.50
Washington Suburban Sanitary Commission	39.61%	\$714,168.30
Fairfax County	9.76%	\$175,972.80
Loudoun Water	4.74%	\$85,462.20
Other (PI)	0.74%	\$13,342.20
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,803,000.00

 / 3/10/20
 Aklile Tesfaye Date
 VP of Wastewater Operations

 / 3/10/2020
 Dan Bae Date
 VP of Procurement and compliance

 / 3/11/2020
 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 YEAR
CENTRIFUGE PRE-DEWATERING POLYMER
(Joint Use)**

Approval to exercise option year 1 for the Centrifuge Pre-Dewatering Polymer in the amount of \$1,600,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

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

Base Year Contract Value:	\$1,384,900.00
Base Year Contract Dates:	05-01-2019 – 04-30-2020
No. of Option Years in Contract:	2
Prior Modifications Value:	\$475,000.00
Prior Modifications Date:	01-18-2020 – 04-30-2020
Option Year 1 Value:	\$1,600,000.00
Option Year 1 Date:	05-01-2020 – 04-30-2021

Purpose of the Contract:

This contract is to supply and deliver centrifuge pre-dewatering polymer to DC Water’s Blue Plains Advanced Wastewater Treatment Facility. This polymer conditions biosolids to help remove water in the centrifuge process.

Contract Scope:

DC Water uses dry cationic polymer at Blue Plains to help reduce water content and increase the solids content in the feed to Thermal Hydrolysis (THP). This conditioning improves the performance of the THP and digestion processes, leading to exceptional-quality Bloom that can be applied for beneficial use.

Spending Previous Year:

Cumulative Contract Value:	05-01-2019 to 04-30-2020: \$1,859,900.00
Cumulative Contract Spending:	05-01-2019 to 02-28-2020: \$1,650,263.00

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.

No LBE/LSBE participation

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Best Value
Commodity:	Pre-Dewatering Polymer	Contract Number:	19-PR-DWT-15
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%	\$722,400.00
Washington Suburban Sanitary Commission	39.61%	\$633,760.00
Fairfax County	9.76%	\$156,160.00
Loudoun Water	4.74%	\$75,840.00
Other (PI)	0.74%	\$11,840.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,600,000.00

 / 3/10/20
 Aklile Tesfaye Date
 VP of Wastewater Operation

 / 3/10/2020
 Dan Bae Date
 VP of Procurement and Compliance

 / 3/11/2020
 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

**SERVICES CONTRACT AWARD
Bloom Sales and Marketing
(Joint Use)**

Request to execute a contract for the marketing and sales of Bloom in the amount of \$2,770,000 per year each for the base and two option years, for a total of \$8,310,000.00. Option years will be awarded annually based on the availability of funds and performance.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Blue Drop, LLC 1385 Canal Street Washington, DC 20003	SUBS: N/A	PARTICIPATION: N/A
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DESCRIPTION AND PURPOSE

Base Period Contract Value:	\$2,770,000.00
Base Contract Period:	1 Year
No. of Option Years:	2
Anticipated Contract Start Date:	04-01-2020
Anticipated Base Period Completion Date:	03-31-2021

Purpose of the Contract:

Blue Drop will manage the disposition of all DC Water’s Bloom, including marketing, selling, hauling and emergency storage contracts.

Contract Scope:

Under this contract, Blue Drop will manage approximately 260 wet tons/day (95K WT/yr) Bloom. They will market, sell and deliver to DC, VA, MD, PA, WV, NJ, etc. fresh, cured, and blended products. This marketing effort takes the place of the previous, recently-cancelled hauling contract at 2/3 the cost. Blue Drop will use its own hauling contracts and DC Water’s distribution and marketing permits to reduce the hauling distance and generate revenue.

Blue Drop has successfully met (in all but one year) increasing annual targets for Bloom sales, starting at 1,000 tons in 2016, 10,000 tons in 2017, 20,000 tons in 2018, and 40,000 tons in 2019, when 40,658 tons of Bloom were marketed. Achieving FY20’s target of 60,000 tons will realize up to \$300,000 incremental savings under this contract compared to FY19. Blue Drop’s long-term goal is marketing all 95,000 tons. Blue Drop has hired salespeople, and is well-positioned to meet their sales targets.

No LBE/LSBE participation.

PROCUREMENT INFORMATION

Contract Type:	Services	Award Based On:	Sole Source
Commodity:	Marketing and Sales	Contract Number:	20-PR-WWT-32
Contractor Market:	Sole Source		


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%	\$3,751,965.00
Washington Suburban Sanitary Commission	39.61%	\$3,291,591.00
Fairfax County	9.76%	\$811,056.00
Loudoun Water	4.74%	\$393,894.00
Other (PI)	0.74%	\$61,494.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$8,310,000.00

 / 3/11/2020
 Aklile Tesfaye Date
 VP of Wastewater Operations

 / 3/11/2020
 Dan Bae Date
 VP of Procurement and Compliance

 / 3/11/2020
 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 LEASE MODIFICATION:
EXTENSION OF COMMERCIAL LEASE FOR WAREHOUSE SPACE
(Joint Use)**

Approval to execute a lease amendment for \$541,372.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: BREIT Industrial Canyon MD1WO1 LLC c/o Link Industrial Management LLC 220 Commerce Drive, Suite 400 Fort Washington, PA 19034	SUBS: N/A	PARTICIPATION: N/A
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DESCRIPTION AND PURPOSE

Original Lease Value:	\$814,000.00
Original Contract Dates:	04-01-2010 – 03-31-2020
Prior Modifications Value:	\$97,963.00
Prior Modifications Dates:	04-01-2010 – 03-31-2020
This Lease Amendment Value:	\$541,372.00
This Lease Amendment Dates:	04-01-2020 – 03-31-2025

Purpose of the Contract:

To provide storage of soil and rock samples obtained from the geotechnical investigations for the Clean Rivers Project's subsurface facilities. This work is required by a Consent Decree.

Scope of the Contract:

Provide DC Water approximately 10.25% of entire secured warehouse space located at 8367-8369 Ardwick Ardmore Road in Landover, Maryland. With this amendment, the lease will be extended from a 10 year period to 15 years.

Previous Spending:

Cumulative Contract Value:	04/01/2010 to 03/31/2020: \$911,963.00
Cumulative Contract Spending:	04/01/2010 to 02/29/2020: \$860,999.00

Contractor's Past Performance:

The Contractor's performance and quality of work all meet DC Water's requirements.

No LSBE participation

PROCUREMENT INFORMATION

Contract Type:	Lease	Award Based On:	Best Value
Commodity:	Goods & Services	Contract Number:	20PRDET35
Contractor Market:	Open Market		

BUDGET INFORMATION

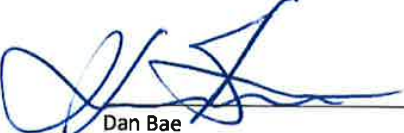
Funding:	Capital	Department:	Clean Rivers
Service Area:	Combined Sewer Overflow, Sewer	Department Head:	Carlton Ray

ESTIMATED USER SHARE INFORMATION

User – Capital CY 39500-LTCP	Share %	Dollar Amount
District of Columbia	92.90%	\$280,826.42
Washington Suburban Sanitary Commission	5.54%	\$16,746.81
Fairfax County	1.01%	\$3,053.12
Loudoun County & Potomac Interceptor	0.55%	\$1,662.58
Total Estimated Dollar Amount	100.00%	\$302,288.93
User – Capital CY 39600-GIBP	Share %	Dollar Amount
District of Columbia	41.22%	\$59,295.58
Washington Suburban Sanitary Commission	45.84%	\$65,941.52
Fairfax County	8.38%	\$12,054.75
Loudoun County & Potomac Interceptor	4.56%	\$6,559.63
Total Estimated Dollar Amount	100.00%	\$143,851.48
User – Capital CY 39700-CAPM	Share %	Dollar Amount
District of Columbia	100.00%	\$71,661.51
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%	\$71,661.51
User – Capital CY 39800-MJ20	Share %	Dollar Amount
District of Columbia	90.00%	\$21,213.07
Washington Suburban Sanitary Commission	10.00%	\$2,357.01
Fairfax County	0.00%	\$0.00
Loudoun County & Potomac Interceptor	0.00%	\$0.00
Total Estimated Dollar Amount	100.00%	\$23,570.08
User -- Combined	Share %	Dollar Amount
District of Columbia	79.98%	\$432,996.58
Washington Suburban Sanitary Commission	15.71%	\$85,045.34
Fairfax County	2.79%	\$15,107.87
Loudoun County & Potomac Interceptor	1.52%	\$8,222.21
Total Estimated Dollar Amount	100.00%	\$541,372.00

 , 3.16.20
 Leonard R. Benson Date
 Senior Vice President, CIP Project Delivery

 , 3/13/2020
 Matthew T. Brown Date
 CFO and EVP, Finance and Procurement

 , 3/13/2020
 Dan Bae Date
 Vice President, Procurement and Compliance

_____, _____
 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:

**Raw Wastewater Pump Station 2 Upgrades
(Joint Use)**

Approval to execute Change Order No. 14 for \$408,000.00. The modification exceeds the General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
American Contracting & Environmental Services, Inc. 10330 Old Columbia Road Suite 102 Columbia, MD 21046	SQN Systems Corp. Columbia, Md. MBE	18.3%
	Buena Vista Assoc., LLC Washington, DC MBE	12.3%
	Trijay Systems, Inc. Line Lexington, Pa. MBE	1.0%
	T.I.T.L. Trucking, Inc. Lothin, Md. MBE	0.2%
	DeLeon Access Floors, Inc. Jessup, Md. MBE	0.1%
	G.E. Frisco Co., Inc. Upper Marlboro, Md. MBE	0.1%
	Tag Distribution & Supply, LLC Pikesville, Md. WBE	5.1%
	Monumental Supply Co., Inc. Baltimore, Md. WBE	0.5%
	Robnet, Inc. Baltimore, Md. WBE	0.4%

DESCRIPTION AND PURPOSE

Original Contract Value:	\$18,732,000.00	
Value of this Change Order:	\$408,000.00	
Cumulative CO Value, including this CO:	\$3,451,853.00	
Current Contract Value, including this CO:	\$22,183,853.00	
Original Contract Time:	973 Days	(2 Years, 8 Months)
Time extension, this CO:	98 Days	
Total CO contract time extension:	278 Days	(0 Years, 9 Months)
Contract Start Date (NTP):	09-15-2016	
Anticipated Contract Completion Date:	08-21-2020	
Cumulative CO % of Original Contract:	18.43%	
Contract completion %:	90.43%	

Purpose of the Contract:

Structural, mechanical, electrical, and architectural upgrades to the pumping station to continue operation of the facility for the next 20 years.

Original Contract Scope:

- Structural repairs and modifications to the facility as needed for the rehabilitation of the existing bridge crane system and additional support for higher roof loads.

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

ACTION REQUESTED

GOODS AND SERVICES CONTRACT OPTION YEAR

**Hauling & Disposal of Excavation Spoils & Debris
(Non-Joint Use)**

Request to exercise Option Year 1 and 2 for the total not to exceed \$1,800,000.00 for the hauling & disposal of catch basin and excavation spoils. Each option year will be awarded annually based on the availability of the funds and performance.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Ganntek, Inc. 9713 Natalie Drive Upper Marlboro, MD 20772 LSBE	SUBS: N/A	PARTICIPATION: 100%
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DESCRIPTION AND PURPOSE

Original Contract Value:	\$784,200.00
Original Contract Dates:	05/01/2019 – 04/30/2020
No. of Option Years in Contract:	2
Option Year 1 Value:	\$900,000.00
Option Year 1 Dates:	05/01/2020 – 04/30/2021
Option Year 2 Value:	\$900,000.00
Option Year 2 Dates:	05/01/2021 – 04/30/2022

Purpose of the Contract:

This contract provides DC Water’s Department of Sewer Services (DSS) with hauling/disposal services for excavation spoils, catch basin debris, floatable debris, trees, brush, log stumps, and general tree/wood material from various DC Water sites to landfills.

Contract Scope:

DC Water maintains three locations which accumulate waste material needing to be disposed of. The waste material includes construction/excavation spoils, catch basin debris, floatable debris, trees, brush, log stumps and general tree/wood, mechanical street sweeping debris, junk, tires, metal, dirt, leaves, and mixed trash. The Contractor provides all labor, management, supervision, personnel, and equipment required to load, haul and dispose of waste material from three DC Water sites: O Street Holding Lot Site, Benning Road Holding Lot Site, and M Street Lot Site. This process requires the vendor to have the capability of completing up to 4 trips per day, Monday through Friday.

Spending Previous Year:

Cumulative Contract Value:	05/01/2019 to 04/30/2020: \$784,200.00
Cumulative Contract Spending:	05/01/2019 to 02/05/2020: \$567,551.66

Contractor’s Past Performance:

According to the COTR, the Contractor’s quality of workmanship; timeliness of deliverables; conformance to DC Water’s policies; and service levels all meet expectations.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Best Value
Commodity:	Services	Contract Number:	19-PR-DSS-01
Contractor Market:	Open Market with Preference Points for LBE and LSBE participation		


BUDGET INFORMATION


Funding:	Operating	Department:	DSS
Service Area:	Various Sites	Department Head:	Dunbar Regis

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	\$1,800,000.00
Washington Suburban Sanitary Commission	0.00%	\$0.00
Fairfax County	0.00%	\$0.00
Loudoun Water	0.00%	\$0.00
Other (PI)	0.00%	\$0.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00	\$1,800,000.00

 3/5/20
 Biju George Date
 EVP Operations and Engineering

 3/6/2020
 Dan Bae Date
 VP of Procurement and Compliance

 3/11/2020
 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 13D
(Non-Joint Use)**

Approval to execute a construction contract for \$7,645,775.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Sagres Construction Corporation 3600 Wheeler Ave Suite 300 Alexandria, VA 22304	Phoenix Constructions Capitol Heights, MD MBE	23.5%
	Acorn Supply & Distributing White Marsh, MD MBE	6.7%
	Solis Inc Capitol Heights, MD MBE	0.8%
	Monumental Maintenance Services Inc Boonsboro, MD MBE	0.4%
	Kim Engineering Beltsville, MD MBE	0.3%
	Deetec Engineers & Surveyors LLC Germantown, MD MBE	0.2%
	Keys Materials & Utilities, Inc Germantown, MD WBE	6.0%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	\$7,645,775.00
Contract Time:	365 Days (1 Year)
Anticipated Contract Start Date (NTP):	05-15-2020
Anticipated Contract Completion Date:	05-15-2021
Bid Opening Date:	01-29-2020
Bids Received:	7
Other Bids Received	
Anchor Construction Corporation	\$7,791,710.00
Garney Companies Inc	\$7,865,865.00
Fort Myer Construction Corporation	\$7,992,140.25
Capitol Paving of D.C. Inc.	\$9,388,642.00
Metro Paving Corporation	\$9,512,514.70
J. Fletcher Creamer & Son Inc	\$9,657,897.00

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 2.3 miles of water mains ranging from three inch to twelve inches, fire hydrants, associated valves, and appurtenances.
- Install copper water services 2-inch and smaller in public and private space.

- Install 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.
- Install permanent pavement and surface restoration.

Federal Grant Status:

- 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:	170040
Contractor Market:	Open Market		

BUDGET INFORMATION			
Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Water	Department Head:	Craig Fricke
Project:	F1, BW		

ESTIMATED USER SHARE INFORMATION		
User	Share %	Dollar Amount
District of Columbia	20.00%	\$1,529,155.00
Federal Funds	80.00%	\$6,116,620.00
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%	\$7,645,775.00

Leonard R. Benson _____
 March 11, 2020
 Leonard R. Benson Date
 SVP and Chief Engineer

Dan Bae _____
 March 11, 2020
 Dan Bae, VP Date
 Procurement and Compliance

Matthew T. Brown _____
 March 12, 2020
 Matthew T. Brown Date
 CFO and EVP
 Finance and Procurement

 Date
 David L. Gadis
 CEO and General Manager

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

ACTION REQUESTED

**MEMORANDUM OF UNDERSTANDING AGREEMENT:
Rehabilitation of The Kenilworth Stormwater Pumping Station
(Non-Joint Use)**

Approval to execute the Memorandum of Understanding (MOU) between District of Columbia Department of Transportation (DDOT) and DC Water for \$2,188,338. The modification exceeds the General Manager's approval authority.

PARTY INFORMATION

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

DESCRIPTION AND PURPOSE

MOU Value, Not-To-Exceed:	\$2,188,338.00
MOU Time:	730 Days (2 Years, 0 Months)
Anticipated MOU Start Date:	05-03-2020
Anticipated MOU Completion Date:	05-03-2022

Purpose of the MOU:

During the Kenilworth Stormwater Pumping Station design process, DC Water learned that a DDOT roadway project would conflict with the construction of the stormwater station. To create a more favorable and cost-effective environment for construction, DC Water proposes entering into an agreement with DDOT under the umbrella of the 2002 Memorandum of Agreement (MOA) between DDOT and DC Water. The 2002 MOA established the basic principles of cooperation between the two organizations with respect to design, planning, construction, cost sharing, method of payment and other relevant matters.

This agreement between DC Water and DDOT will direct DDOT to construct the Kenilworth Pumping Station as part of their roadway construction project.

MOU Scope:

- DDOT will rehabilitate the entire Kenilworth Pumping Station that will include:
 - Installation of new submersible pumps
 - Provide and install a new Motor Control Center (MCC)
 - Provide and install a new HVAC system.
 - Rehabilitate all concrete surfaces including hatch covers, access ladder and floor gratings.
- DC Water will reimburse DDOT for all eligible construction costs for the Pumping Station.
- DC Water will monitor, inspect and record all observed construction activities that relate to the Pumping Station throughout the duration of the contract and transmit to DDOT monthly status reports covering construction activities.
- DC Water will be responsible for the review and acceptance of work including deliverables related to the construction, installation, and the acceptance testing of the Pumping Station.

Federal Grant Status:

- Work under this MOU is not eligible for Federal grant funding assistance.

AGREEMENT INFORMATION

Contract Type:	MOU	Award Based On:	N/A
Commodity:	Construction	Contract Number:	N/A

BUDGET INFORMATION

Funding:	Capital	Department:	Wastewater Engineering
Service Area:	Stormwater	Department Head:	David Parker
Project:	NG		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 2,188,338.00
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%	\$ 2,188,388.00

 3/17/20
 Leonard R. Benson Date
 SVP, CIP Project Delivery

 3/13/2020
 Dan Bae, VP Date
 Procurement & Compliance

 3/13/2020
 Matthew T. Brown Date
 CFO and EVP
 Finance & Procurement

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



ENVIRONMENTAL QUALITY AND OPERATIONS (EQ & OPS) COMMITTEE

ASSET MANAGEMENT & SCADA IMPROVEMENTS

Department of Pumping Operations

March 19, 2020

Presenters:

Department of Pumping Operations Team



AGENDA

- Team Introduction
- Asset Management
 - Reliability Centered Maintenance (RCM) - Basics
 - Pareto Analysis
 - RCM Results
 - Supervisory Control and Data Acquisition (SCADA)
 - Standards
 - Upgrades
 - SOP's and Training
- Conclusions



RELIABILITY CENTERED MAINTENANCE

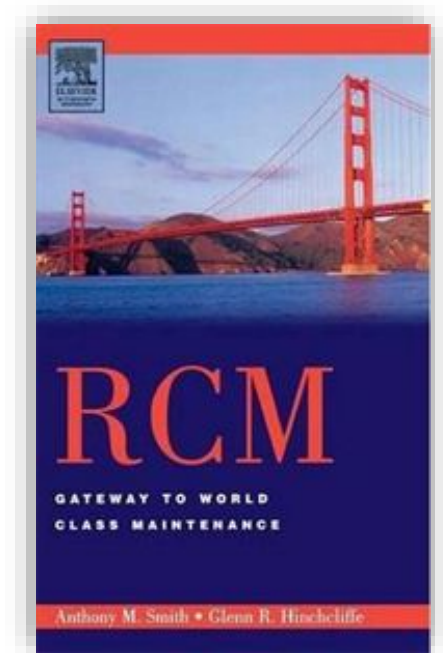
- RCM – “A systematic Structured Approach to develop an effective maintenance plan for an asset that minimizes the probability of failures while ensuring safety and mission compliance.”
 - Executed RCM at Sewer Stations, Water Stations, Storm Water Stations
 - Identified problem assets for initial review by using the Pareto principle.
 - For example at Main Pump Station – Identified screens as the asset needing attention
 - Identified that Preventive Maintenance (PM) Work Orders needed to be revised/modified (Condition based/Predictive Activities (PdM))
 - Changed protocols related to executing Work Orders and created a PdM team



RELIABILITY CENTERED MAINTENANCE

Classical RCM

- Selected the Classical RCM Process to conduct a pilot study
 - Classical - Mimics very closely the original Study Format conducted by United Airlines in the early '60s for the 747 airplane
- Four RCM Principles
 - Preserve system function
 - How are functions defeated (failure modes)
 - What are the priorities
 - For high critical failure modes
 - Define applicable tasks
 - Select most effective one





RELIABILITY CENTERED MAINTENANCE

7-Step Systems Analysis Process

1. System Selection
2. System Boundary Definition
3. System Description and Functional Block Diagram
4. System Functions and Functional Failures
5. Failure Mode and Effects Analysis (FMEA)
6. Logic (Decision) Tree Analysis (LTA)
7. Task Selection



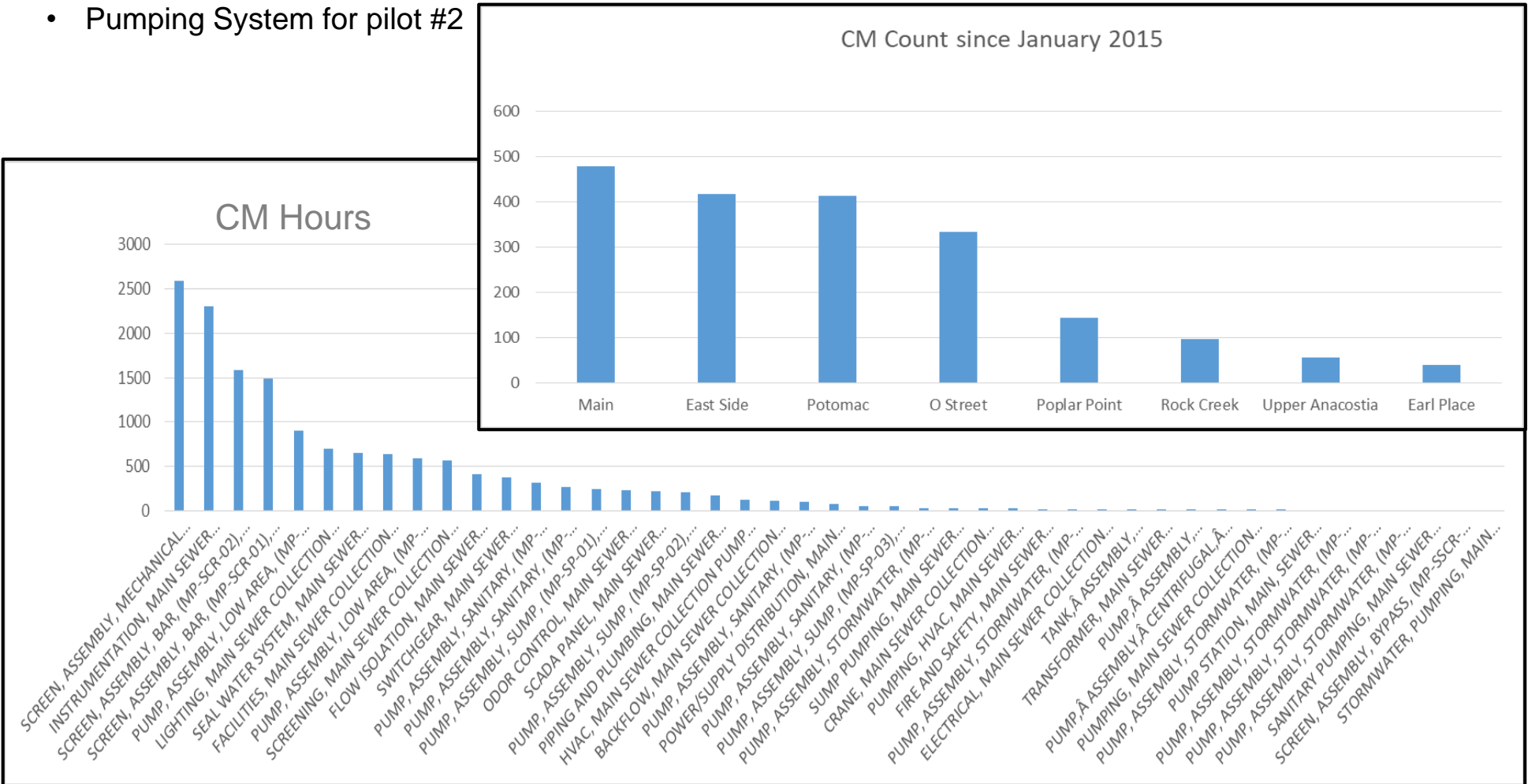


RELIABILITY CENTERED MAINTENANCE

1. System Selection

Main Pumping Station

- Screening System for pilot #1
- Pumping System for pilot #2

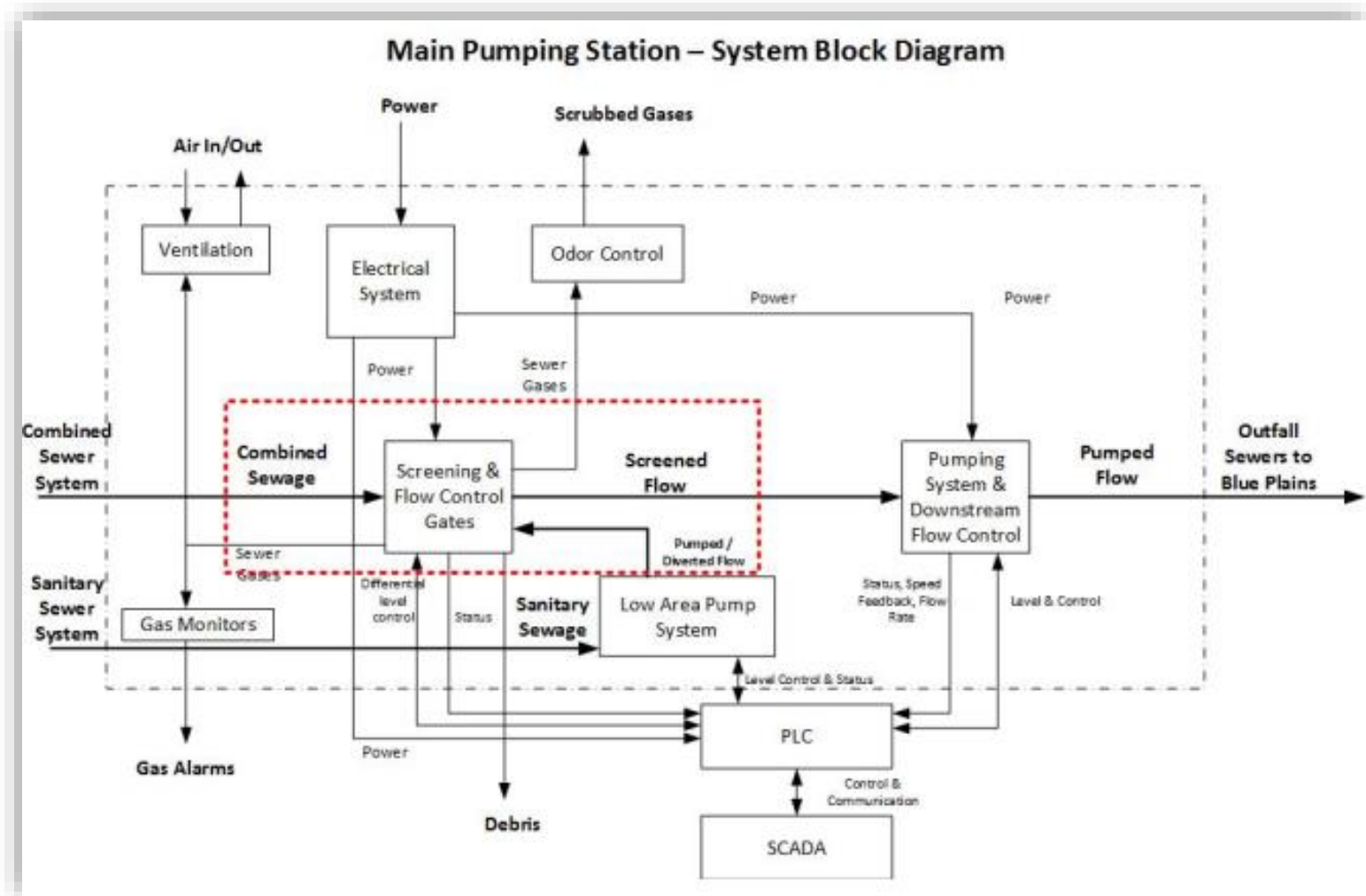




RELIABILITY CENTERED MAINTENANCE

2. System Boundary Definition

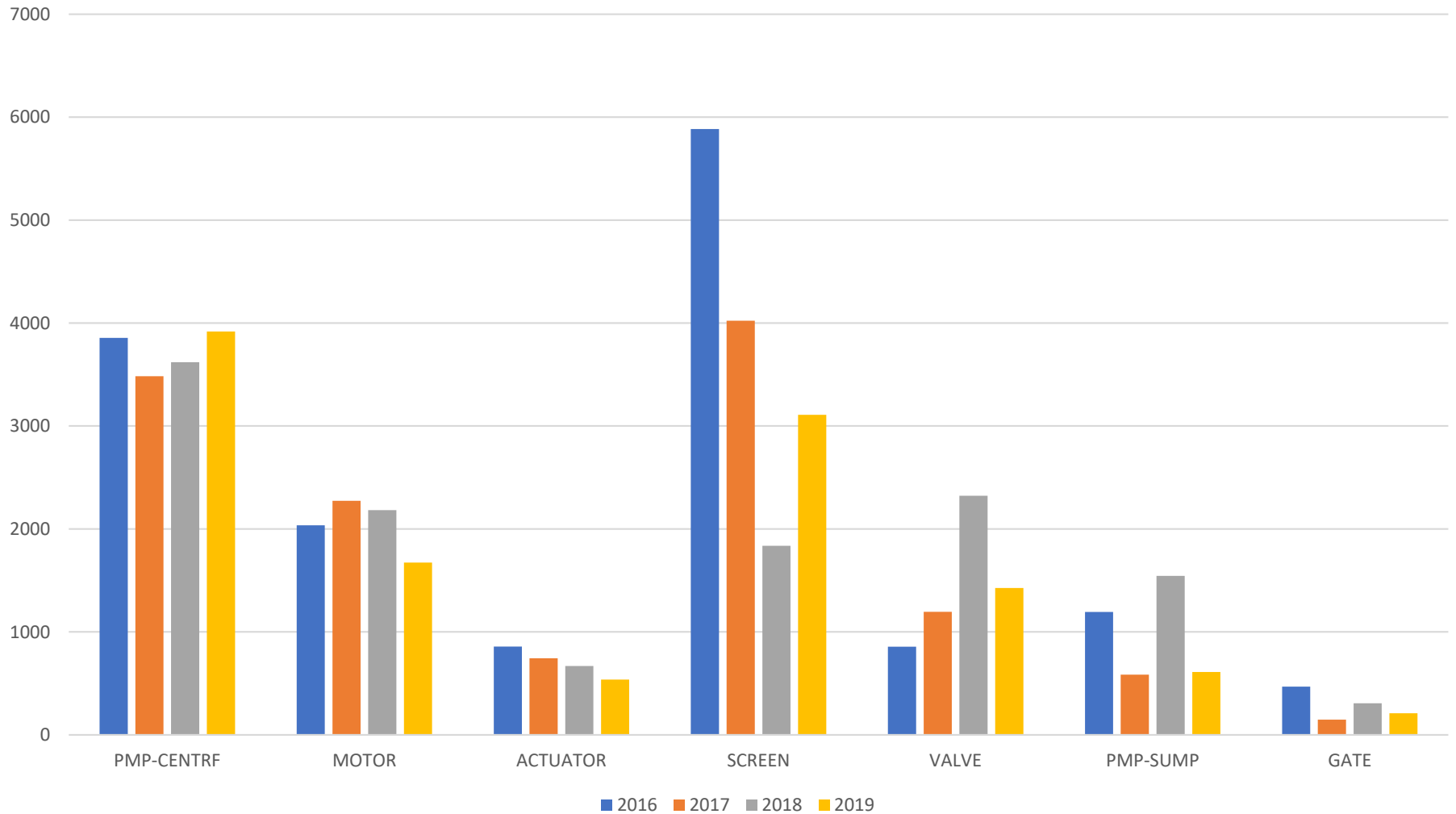
3. System Description and Functional Block Diagram





RELIABILITY CENTERED MAINTENANCE

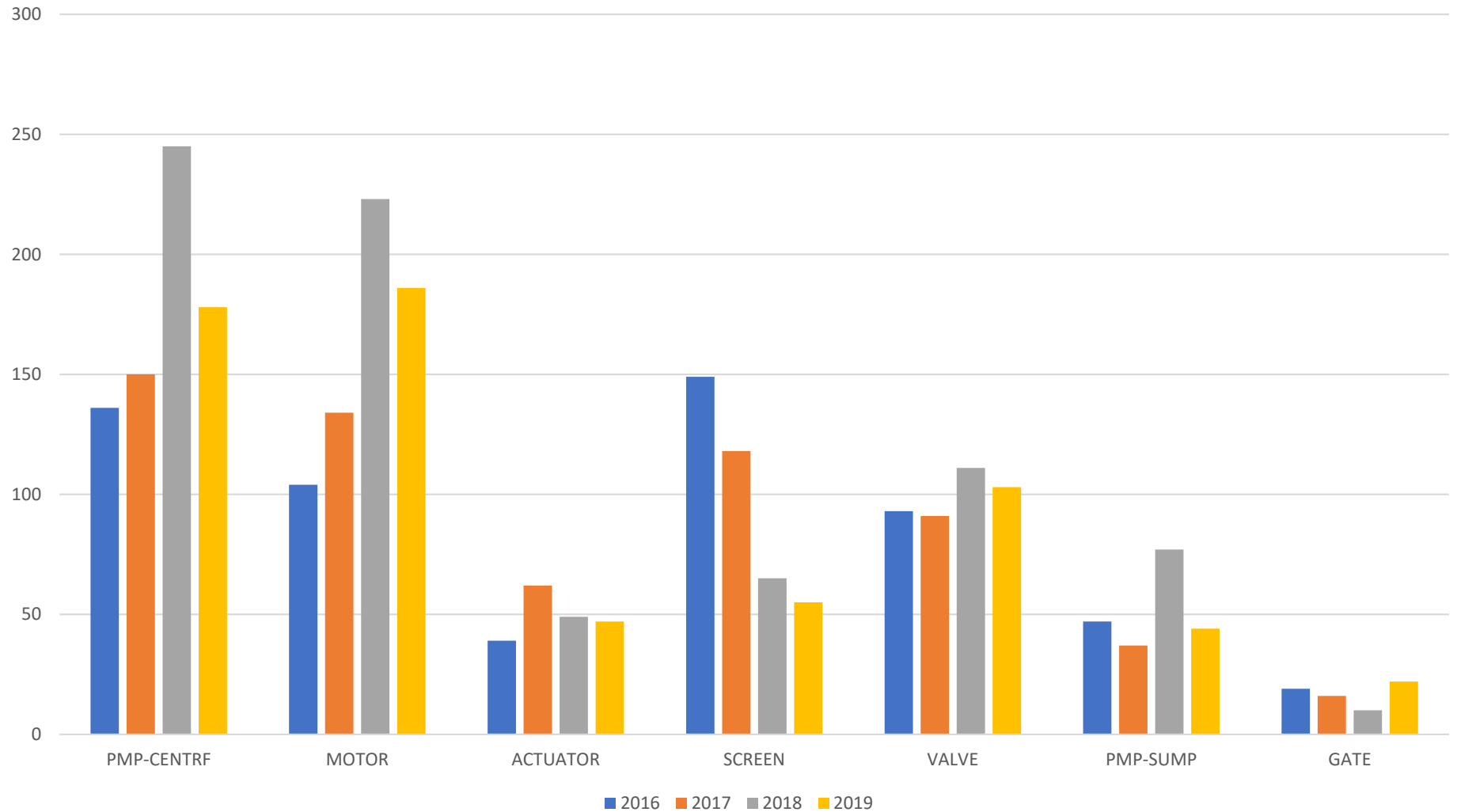
Labor Hours





RELIABILITY CENTERED MAINTENANCE

Work Count





RELIABILITY CENTERED MAINTENANCE

Results

- Enhanced teamwork – Culture Change
- RCM completed at all Pumping Stations
- Increased equipment availability
- Increased system Reliability
- Knowledge Transfer
- Process Documentation
- Training – PdM (Vibration, Ultrasound, Motor Alignment & ISO 9001 outside exposure at EMC)

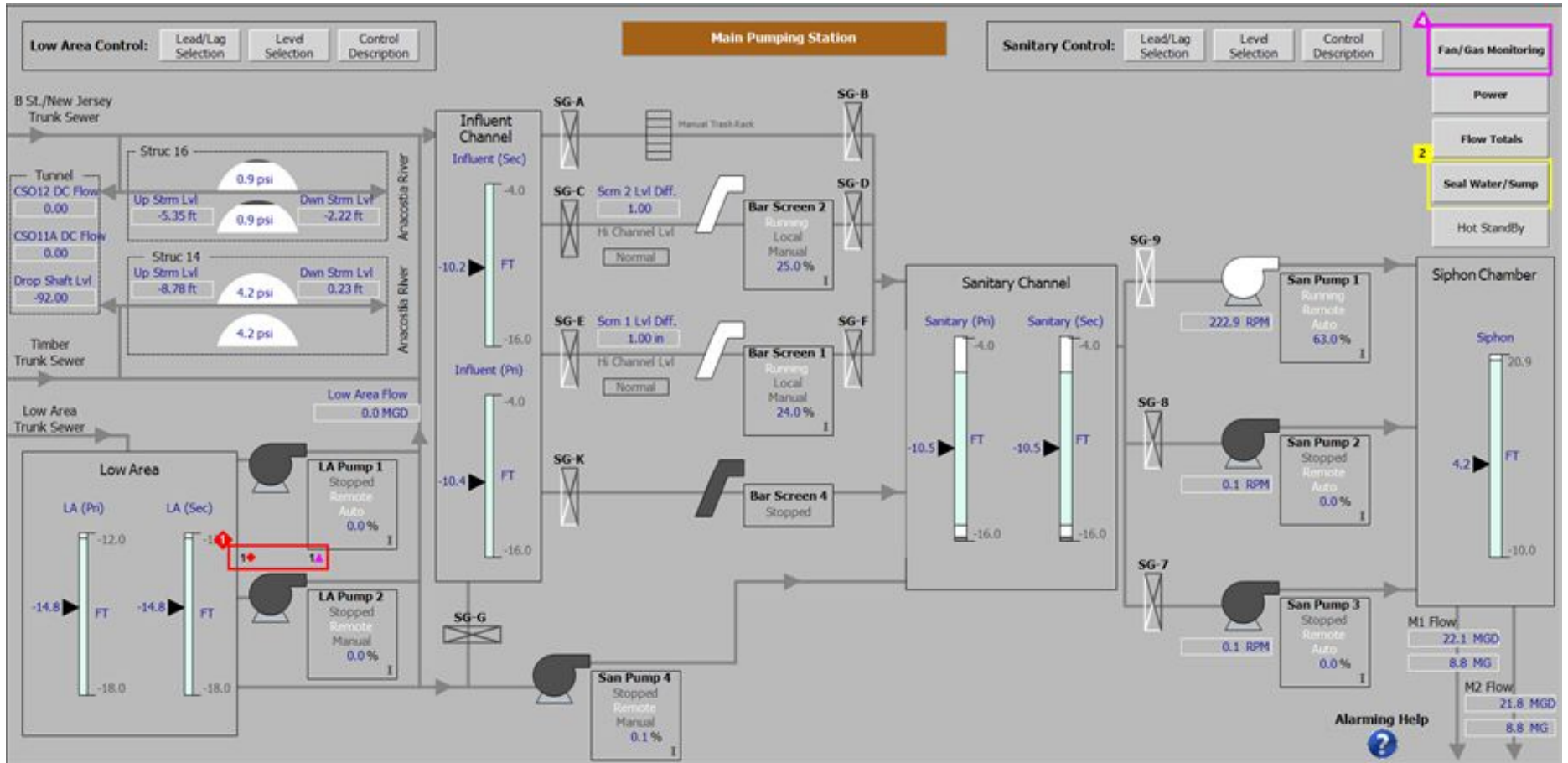


SCADA

- Department of Pumping Operations in collaboration with DETS created SCADA standards as follows:
 - PLC hardware
 - OIT hardware
 - PLC programming standards
 - Graphical standards using High Performance/ Situational Awareness concepts
 - Alarm prioritization and management
- To date, these standards have been implemented for 5 Sewer Pump Stations, Sewer and Water Overview pages, Fabridam sites, and existing Storm Water Pump Stations. Expected completion is mid-2021.
- Standardized SCADA SOPs are created once site is completed.



SCADA





SCADA

- Designed new SCADA PLC and HMI programming standards
 - Collaborative effort among Operators, SCADA and Department of Engineering and Technical Services (DETS) teams, with the help of consultants from CDM Smith.
- We adapted industry standards, had many reviews, and continued feedback.





SCADA

- Worked with Procurement to outsource additional system integrators to work with our team in order to implement the standards.
- Instrumentation technicians and IT involved with Input/output checks and verification at each site.
- Operators continue to provide continuous feedback
- DETS assists with reviewing control strategies, Standard Operating Procedures, after implementation reviews.





SCADA

We follow standardized steps to ensure each site is built well.

Standardization supports system reliability:

1. Review and finalize control strategies
2. Programming
3. Graphics and Alarms Review
4. Work with IT for IP addressing, etc.





SCADA

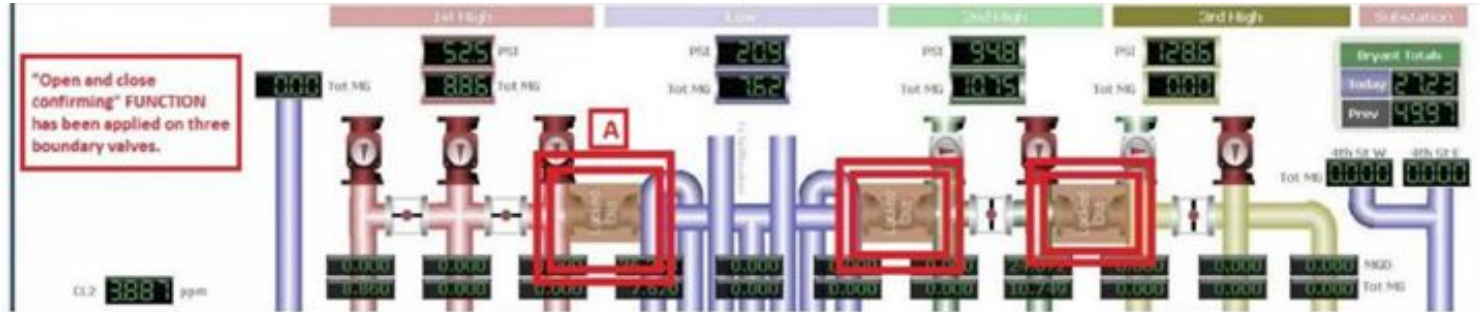
We follow standardized steps to ensure quality for each site implementation:

1. Field verification, IO checks, programming checklist and functional testing
2. Commissioning and Operator Training
3. Documentation – SOPs, Site testing sign-off sheets, etc.

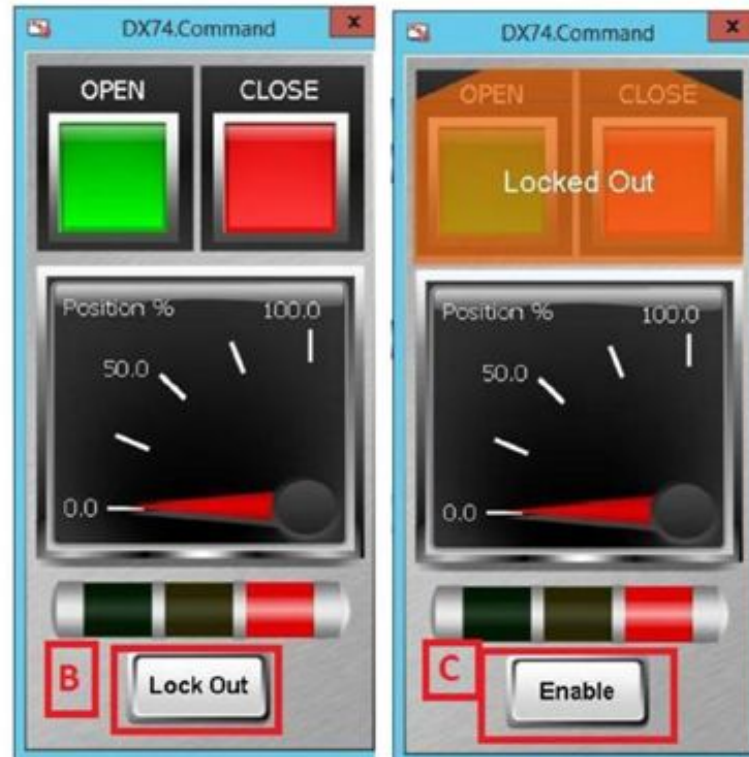




SCADA



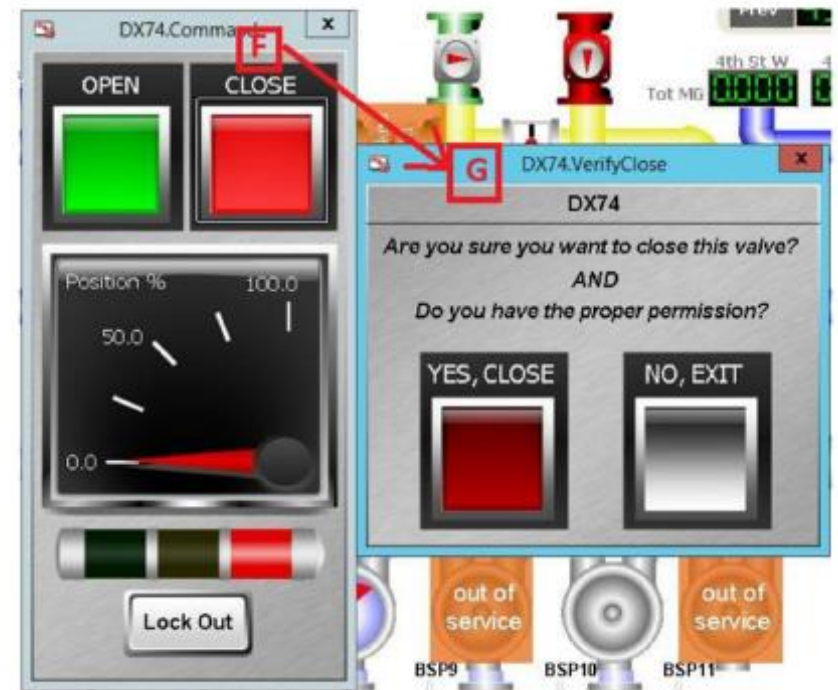
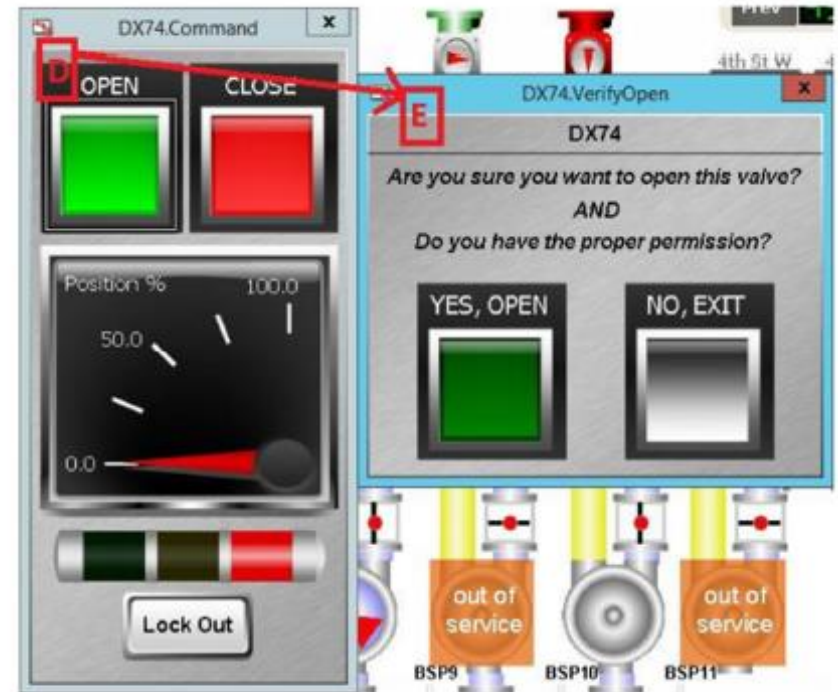
- One of the after-actions from the **2018 Boil Water Alert** was to develop verification popups in SCADA for Bryant Street boundary valves and by default, valve should be in a locked out state. Refer to **SOP: WD.BS.DCS.S130**





SCADA

- To open a valve, click on the valve symbol and a popup will appear **[D]**. Click on open and another popup requesting verification will appear **[E]**. Click “YES, OPEN” to open the valve. Click “NO, EXIT” to cancel.
- To close a valve, click on the valve symbol and a popup will appear **[F]**. Click on close and another popup requesting verification will appear **[G]**. Click “YES, CLOSE” to close the valve. Click “NO, EXIT” to cancel.





SUMMARY

- The Standard Operating Procedure of all DPO Stations are documented. The SOPs are readily available to all operations and maintenance personnel.
- Trained all personnel in the essentials of the SOPs
 - Monthly SCADA training provided to DPO personnel
 - Operators' certification required for operators
- Deployed better technology in monitoring and trending DPO unmanned stations
 - More stations are connected to our SCADA systems
 - Vibration and temperature sensors are deployed on critical pump assemblies
- Streamlined operating activities and operators' visual inspections using RCM:
 - Improved operators' visual inspections
 - Have a dedicated Lead and Lag pumps at the Sewer and Storm Water Pumping Stations—rotated at the ratio of 80:20



SUMMARY

- Continual review of Department of Pumping Operations (DPO) Asset Register
 - Performed physical verification of assets and update the information in Maximo.
 - Ensure that relevant assets information needed to support strategic asset management decisions are current in Maximo
- Weekly report on the availability of DPO mission critical Assets.
- Identify and deployed better technology to perform maintenance activities.
 - Using RCM DPO deployed ultrasonic and InfraRed technology to monitor critical assets
 - Changed the type of lubrication oil used in Fresh Water Pumping stations due to environmental and safety concerns
- Plan and Schedule DPO PM and PD work
 - Weekly monitoring of PM and PD workorder compliance
 - Package Corrective Maintenance work with upcoming PM and PD activities.
- Document all work activities in Maximo
- Trained DPO personnel on maintenance best practices
 - Trained on the principles of Root Cause Analysis
 - Trained on asset specific maintenance activities



SUMMARY

- Perform Reliability Centered Maintenance (RCM) study on DPO stations
 - Focused maintenance activities on real time conditions of DPO assets—developed more predictive maintenance tasks, and removed intrusive failure inducing preventive maintenance tasks
 - Made Run-To-Fail (RTF) an asset management strategy
 - Weekly monitoring on the health of DPO mission critical assets.
 - Monthly monitoring of the effectiveness of the PM/PD program
- Life-Cycle Cost Analysis on Mission Critical Assets.
 - Regular review of Assets' Warranty and installation information for Capital Improvement program (CIP) decisions.
 - Use life-cycle cost analysis to drive Assets Replacement Program
- Trend Assets Failure Rate
 - Replaced failure prone screens with a more resilient and effective Duperon screens.
 - Installed vibration sensors on pumps in DPO unmanned stations.



SUSTAINABILITY

- Align operational activities with maintenance strategies.
 - Daily maintenance operation update meeting—to discuss new emergency/urgent workorders, safety concerns, and other issues.
 - Cross-functional training of DPO personnel
 - Monthly All-hands meetings
- Developed measurable KPIs to achieve specific targets
 - Monitor PM/PD work schedule compliance
 - Review the effectiveness of the PM/PD program—perform regular audit of PM/PD
 - Monitor DPO work backlog
- Streamlined maintenance activities using RCM:
 - Removed all non value adding PM/PD tasks.
 - Use Assets condition information to drive PM or corrective work needs



CONCLUSIONS

- Having the team put together and focused on RCM has yielded numerous positive results
- The process has spilled over into our day to day activities in positive ways. One example is increased cooperation between our groups
- The team is committed and excited to move forward with implementation and sustainment
- The RCM results point out the significance of where positive actions will be beneficial in streamlining our maintenance program with over 90% of the program experience some form of change
- The process has caused a paradigm shift in the way we think, talk, and conduct maintenance
- The group has become of like minds...