



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

Meeting of the  
Environmental Quality and Operations Committee

**Thursday, November 18, 2021  
9:30 a.m.**

**Microsoft Teams**

Join on your computer or mobile app

[Click here to join the meeting](#)

**Or call in (audio only)**

[+1202-753-6714,,550308060#](#)

Phone Conference ID: 550 308 060#

This meeting can be lived streamed at <https://dcwater.com/watch-boardmeetings>

<b>9:30 a.m.</b>	<b>I.</b>	<b>Call to Order</b>	Howard Gibbs Vice Chair
	<b>II.</b>	<b>Roll Call</b>	Linda Manley Board Secretary
<b>9:35 a.m.</b>	<b>III.</b>	<b>AWTP Status Update</b>	Aklile Tesfaye
		1. <a href="#">BPAWTP Performance</a>	
<b>9:50 a.m.</b>	<b>IV.</b>	<b>CIP Quarterly Update</b>	Paul Guttridge
<b>10:05 a.m.</b>	<b>V.</b>	<b>Action Items</b>	Joel Grosser/Kishia Powell

**Joint Use**

1. [Contract No.: 19-PR-DWT-21A – Supply and Delivery of Methanol, Colonial Chemicals](#)
2. [Contract No.: 19-PR-DWT-21B – Supply and Delivery of Methanol, Mitsubishi International](#)
3. [Contract No.: 18-PR-DIT-58 – IT Software Managed Services, Stellar Services](#)
4. [Contract No.: 10124 – Residuals Hauling, Carter & Carter Enterprises](#)
5. [Contract No.: DCFA 515 - As-Built Support Services, Basic Ordering Agreement \(BOA\), AMT LLC](#)
6. [Contract No.: DCFA 516 – As-Built Support Services, Basic Ordering Agreement \(BOA\), EBA Engineering, Inc./Accurate Infrastructure Data, Inc. \(EBA/AID\) \(JV\)](#)

**Non-Joint Use**

1. **Contract No.: DCFA 502 - Engineering Program Management Consultant 2F, Mott MacDonald I&E, LLC**

<b>10:25 a.m.</b>	<b>VI.</b>	<b>DCCR Status Update</b>	Moussa Wone
<b>10:40 a.m.</b>	<b>VII.</b>	<b>Other Business / Emerging Issues</b>	
<b>10:45 a.m.</b>	<b>VIII.</b>	<b>Executive Session*</b>	Howard Gibbs Vice Chair
<b>11:00 a.m.</b>	<b>IX.</b>	<b>Adjournment</b>	

**Follow-up Items from Prior Meetings:**

1. Director, DCW Resource Recovery: To provide an in-depth presentation to the Committee on Bloom and the Sierra Club report at a future committee meeting [**Target: December 2021 EQ & Ops Mtg**]
2. Acting Director, DETS: Discuss the Fleet Maintenance Facility Construction contract and related change orders to Full Board. [**Discussed on November 4, 2021, Full Board Meeting**]

The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(2); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4)(A); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10); proprietary matters under D.C. Official Code § 2-575(b)(11); train and develop members of a public body and staff under D.C. Official Codes § 2-575(b)(12); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.



## Wastewater Operations

### Blue Plains Advanced Wastewater Treatment Plant – October 2021

#### Accomplishments & Priorities

#### Water Environment Federation Technical Exhibition and Conference (WEFTEC) Contributions of WWT (Wastewater Treatment) Cluster

The WWT cluster was well represented at WEFTEC with three workshop presentations, six research presentations, and three technical presentations from Process Engineering and Maintenance Services. The topics and discussion included were the following:

- Workshop contribution on online analyzers to meet stringent nutrient limits (Ryu Suzuki - Manager Process Engineering). This platform provided a great opportunity to share experience with online analyzers, placements and maintenance needs as well as proven applications.
- Workshop contribution to energy incubator discussion (Elkin Hernandez - Director Wastewater Treatment Maintenance & Chris Peot -Director Resource Recovery). Within this workshop experience was shared on recovering energy and generating renewable energy credits from biogas and thermal energy
- Technical presentation on improving solids settling through contact stabilization implementation in secondary treatment (Nam Ngo, PhD candidate). The full-scale implementation of contact stabilization and the identified benefits in solids settling, energy efficiency and effluent quality was highlighted (Martha Han Memorial Award)
- Technical presentation on Phosphorus (P) mass balances in secondary systems (Hau Truong). This study showed that more P can be redirected to the biosolids when the activated system is operated under short Solids Retention Time (SRT). When leveraging this observation, more P can be removed biologically rather than through chemical dosing.
- Three technical presentations on Partial deNitrification Anammox (PdNA) – (Rahil Fofana- PhD candidate, Nicole Forney-Ms student, Mojolaoluwa Ladipo-Obasa-PhD candidate); this topic was also facilitated during a practical application session on PdNA (Haydee De Clippeleir- Acting Director Clean Water Quality &Technology). PdNA the path forward toward more sustainable and cost-effective nutrient removal. Research on development of PdNA filters, use of fermentate as carbon source for PdNA and general concept related to process control needs and settings were highlighted. In addition, practical examples were worked out and discussion. The latter is also summarized and presented during WEFTEC online Nov 16-18.
- Technical presentation on use of acoustic sensors for biosolid characteristics measurements (Han Nguyen, PhD candidate). An acoustic sensor-based concept was developed and presented to show its potential to provide sludge characteristics measurement efficiently and practically (low

<p><b>Accomplishments &amp; Priorities</b></p>	<p>maintenance). This concept has led to implementation of three prototypes at the Blue Plains biosolids facility for solids measurement.</p> <ul style="list-style-type: none"> <li>- Technical presentation on asset management (Theresa Bruton - Manager Asset Management). Session discussed data accuracy in asset management, and we shared our current approach on how to consolidate, clean and use data for asset management.</li> <li>- Technical presentation on process control for nutrient removal (Ryu Suzuki). We shared our experience on ammonium-based aeration control (ABAC) applied at Blue Plains. This control approach allows to decrease our energy input to the nitrification reactors and avoids dosing air when ammonium is fully oxidized.</li> <li>- Cyber security learning exchange (Elkin Hernandez). The water sector coordinating council recently released cyber security in water and wastewater system sector. During the roundtable discussion, participants discussed the big picture policy and resource needs for improving water infrastructure cyber security posture.</li> </ul> <p><b>Chemical Delivery Emergency Response Training/Drill</b></p> <p>On October 19<sup>th</sup> and 20<sup>th</sup>, DC Water’s Department of Wastewater Treatment (DWT) in coordination with the Office of Emergency Management and the Horsley Witten team, conducted a series of training exercises at Blue Plains. The training event focused on emergency response procedures, emergency documents such as the All-Hazard Initial Response Action Plan, General Emergency Response Procedures for the DWT General Foreman, Chemical Deliveries procedures for DWT, and several ‘what if’ scenarios geared towards the Maintenance and Operations groups. A total of five sessions were held with over 80 participants from the following departments: Maintenance – (Instrumentation, Reliability, Mechanical, Electrical), Process Engineering, Research &amp; Development, Pretreatment, Main Laboratory, Resource Recovery, Wastewater Treatment, OEM, Safety, and Security.</p> <p>During the scenarios, participants were asked to play a role in the emergency event, talk through their response roles and responsibilities while highlighting the best practices or lessons learned in the training session. Our immediate responses from the exercises were that our team members found them tremendously useful and stated the training should be held more often. The Department of Wastewater Treatment is planning to utilize this training as a base for building additional Emergency Response training events in the future and repeated training annually.</p>
--	---

**Accomplishments  
& Priorities**

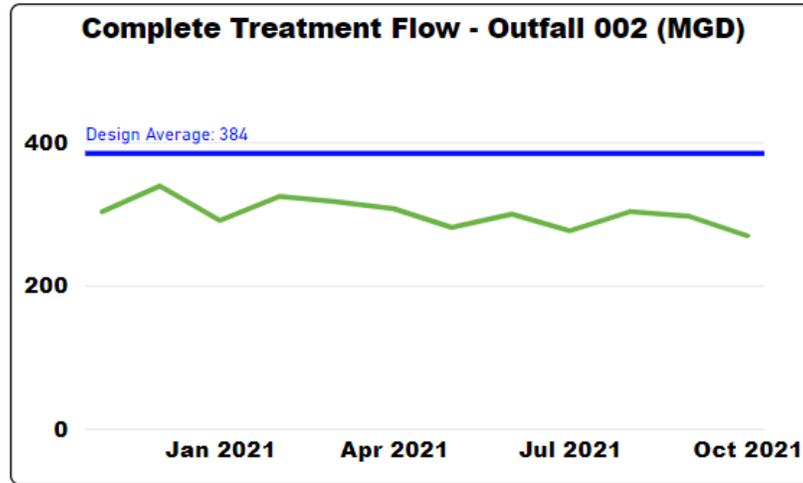
*Figure 1. Blue Plains Emergency Response Training*



**Operational Performance**

**Blue Plains Complete Treatment Performance:** The plant performance for the month of October 2021 was excellent with all effluent parameters well below the seven-day and monthly NPDES permit requirements. The monthly average flow through complete treatment (Outfall 002) was 269 MGD. The total volume for the month of October of treated captured combined flow directed to Outfall 001 from the Wet Weather Treatment Facility (WWTF) was 387 MG.

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



**Wet Weather Treatment Facility (WWTF) Performance:** In October 2021, a total of 326 MG of combined wet weather flow, captured in the tunnel system, was treated through the plant. There was no measured overflow that took place this month (Table 1).

*Table 1. Wet Weather Treatment Facility (WWTF) Performance*

	October 2021*	Calendar Year 2021 (Through October)
Total Precipitation, inches (DCA gauge)	3.44	42.01
Total Volume Captured in the Anacostia Tunnel, MG	293	2,354
Measured Overflow, MG	0	86
Percent Captured**	100%	97%
Screenings and Grit Capture, tons	206	2,892

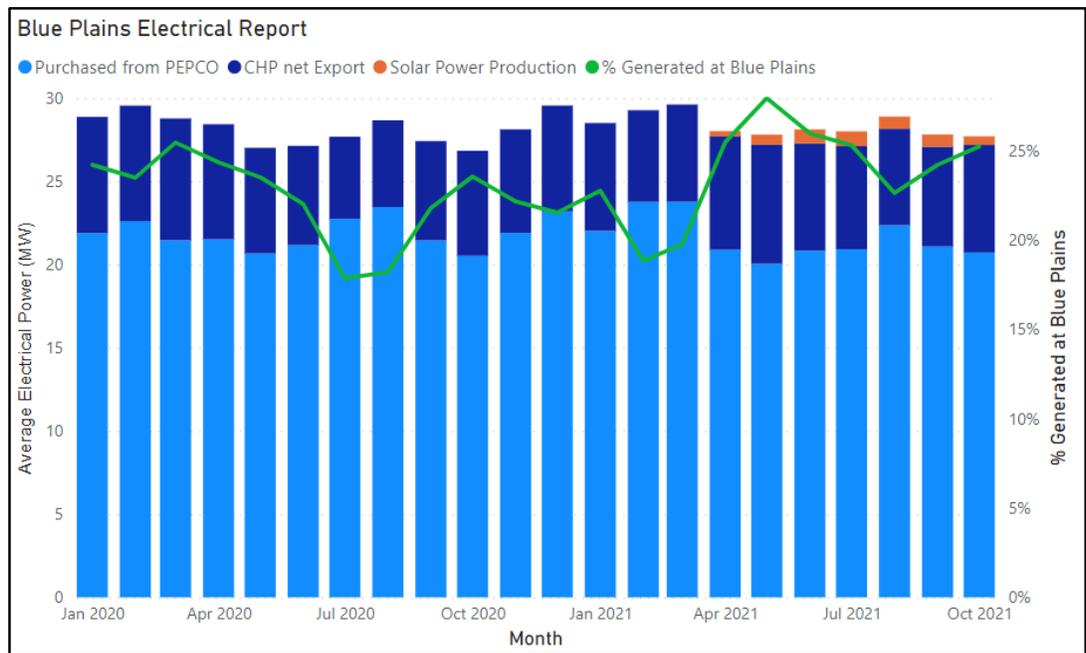
Note: \*Based on preliminary data.

\*\*Expected Capture ~80%

**Operational Performance**

**Blue Plains Electrical Energy Use and Generation:** The Combined Heat and Power (CHP) facility produced an average of 7.7 megawatts (MW) of renewable electricity during this month. Contractually, the CHP performance is evaluated based on the net electricity export to the Blue Plains grid, which averaged 6.5 MW as shown in Figure 5 below. The solar system produced an additional 0.52 MW of power on average. The total electricity consumption at Blue Plains averaged 27.7 MW during the month of September. Out of total electrical consumption, 25.4% of electricity was generated onsite between CHP and solar panels, which surpassed the plant performance metrics of 20%. DC Water purchased an average of 20.7 MW of electricity from PEPCO as shown in the graph below.

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



**Operational Performance**

**Class A Biosolids Production:** In October, biosolids hauling averaged 374 wet tons per day (wtpd). All biosolids produced during the month met Class A Exceptional Quality (EQ) requirements required by EPA. Fecal Coliform values on daily process monitoring samples remained below the 1,000 MPN\*/gram required for Class A biosolids - consistent with the low levels measured historically.

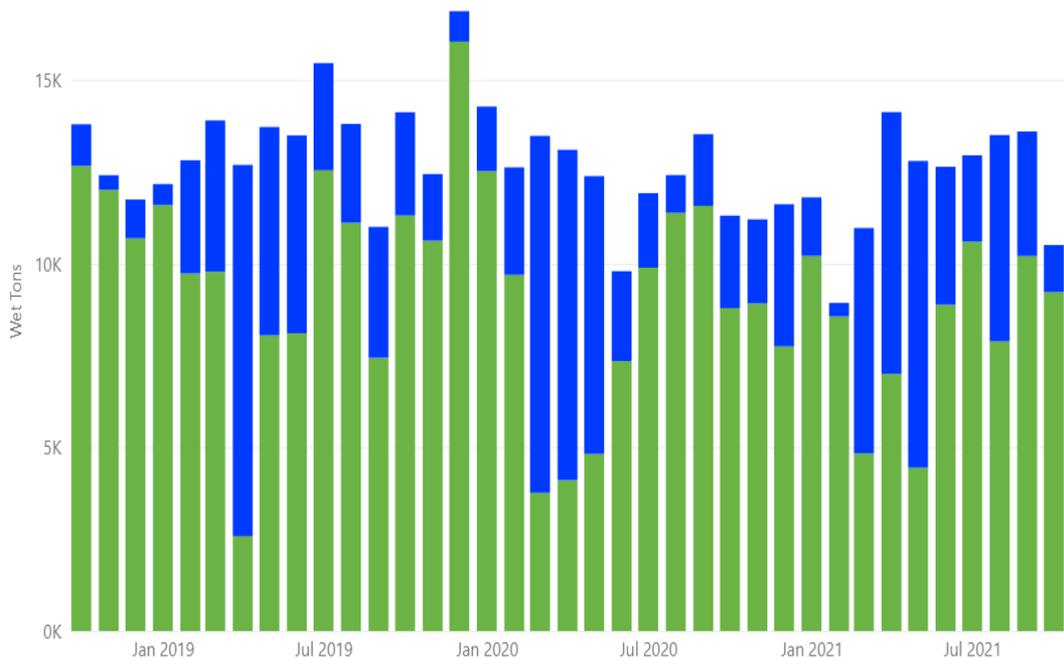
\*Most Probable Number (MPN) per gram measures statistical probability of number of organisms

**Bloom Marketing:** The average quantities of Class A biosolids transported and applied on farms and the quantities marketed as Bloom are shown on the graph below. In October, Blue Drop sold 2,365 wet tons of Bloom (Figure 4). The remaining 9,226 wet tons not sold into the market were land applied through DC Water (through Blue Drop) and WSSC contracts.

*Figure 4. Tons of Class A Biosolids Produced - October 2018 to October 2021 Marketed as Bloom (blue) and Land Applied (green)*

Total Production of Class A Biosolids and Beneficial Reuse by Type

● Land Application ● Marketing as Bloom



**Progress Report****Research to Reduce Odor Emission in Primary Treatment**

Wastewater Operations and Research Departments worked together to test a change in mode of operations at Primary Treatment. The theory was that by adjusting the operational mode in the Primary Facilities we may be able to reduce the amount of odorous compounds produced in the Facilities. Throughout the summer tests were run at the Facility and ultimately it proves successful. Operations has incorporated the operational change based on these results to improve the odor profile and the work environment at Blue Plains, benefiting the health and well-being of our employees.

*Figure 5. Wastewater Operations and Research working on odor control*



**Water Quality & Pretreatment:** The Notice of Proposed Rulemaking for the updated pretreatment wastewater discharge standards and non-wastewater flow requirements was published October 22, 2021, in the DC Register and emailed to all the permitted industrial users as well as other stakeholders including environmental consultants for the required 30-day public comment period. The proposed rulemaking was presented to the jurisdictions at a Pretreatment Workgroup meeting on October 26 along with suggested updates to the IMA Operating Agreement #5 which includes changing the prohibition on out of service area trucked waste to a conditional acceptance if agreed to by all IMA parties on a case-by-case basis and monitoring for and prohibiting all trucked waste containing measurable Polychlorinated biphenyls (PCBs).

# District of Columbia Water and Sewer Authority

## Capital Improvement Program Report



FY-2021 4<sup>th</sup> Quarter  
July 1<sup>st</sup> through September 30<sup>th</sup>, 2021

Board of Directors  
Environmental Quality and Operations Committee

David L. Gadis, CEO and General Manager  
Kishia L. Powell, Chief Operating Officer

November 2021

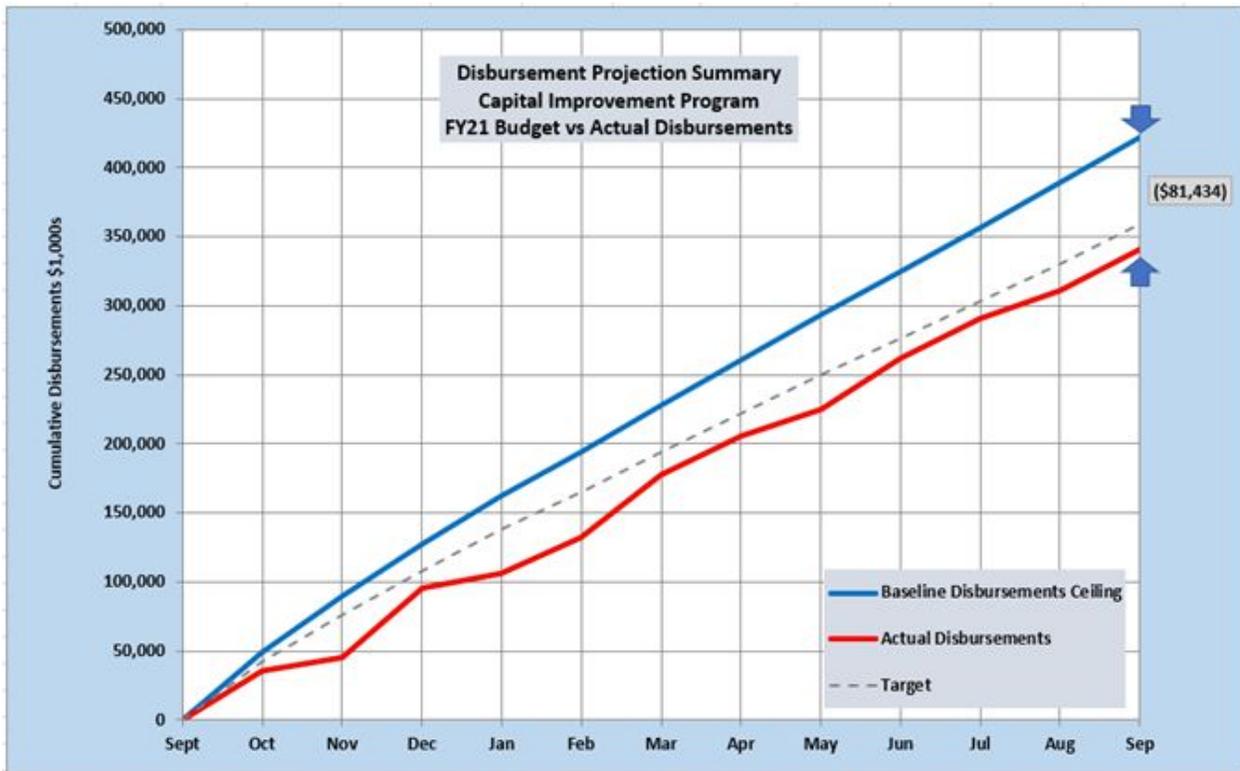


## Capital Improvement Program Report 4<sup>th</sup> Quarter FY2021

### CIP Disbursement Performance

FY21 program disbursements compared with the FY21 baseline budget ceiling are shown in the chart below:

### Disbursement Summary



Fiscal year 2021 CIP disbursements were \$340,939,000, which is below the revised baseline disbursement projection of \$422,373,000.

FY21 disbursements within the service areas are as follows:

**Non-Process Facilities**

Baseline Disbursements	\$38,002,000
Actual Disbursements	\$21,508,000 (\$16.4M below baseline)



## Capital Improvement Program Report 4<sup>th</sup> Quarter FY2021

Significant project variances are listed below:

- *Facility Land Use Program Area:*
  - The forecast disbursements for Project HH Main & O Redevelopment Efforts (Formerly New Fleet Management Facility) are \$10.1M under the baseline due permitting delays for the Fleet Facility.

### **Wastewater Treatment Service Area**

Baseline Disbursements	\$78,993,000
Actual Disbursements	\$72,007,000 (\$7.0M below baseline)

Significant project variances are listed below:

- *Solids Processing Program Area – (\$6.1M above baseline)*
  - The disbursements for Project BX – Gravity Thickener Upgrades Phase II are \$5.4M above the baseline due to work that progressed slightly ahead of the forecast baseline schedule; additionally, a significant invoice anticipated to be paid in FY20 was paid in FY21.
  - The disbursements for Project AM - Solids Processing Program Management are \$1.8M above the baseline due to invoices anticipated to be paid in FY20 being paid in FY21 and a re-adjustment of the remaining spending forecast.
- *Liquid Processing Program Area – (\$8.3M below baseline)*
  - The disbursements for Project IZ – Replace Influent Screens are \$3.0M under for FY21 due to delays in installation of new screen equipment.
  - The disbursements for Project IY – Effluent Filter Upgrade are \$1.1M under for FY21 due to the design start delayed to FY22 to evaluate critical equipment selections.
  - The disbursements for Project BC – Headworks Influent Structures are \$1.6M under for FY21. The design was suspended to approve use of allowance for additional scope. Also, MFU-6 billing lagged into FY22.
  - The disbursements for Project PE – Nitrification Reactor/Sedimentation Upgrades are \$0.9 M under for FY21 due to MFU-6 billing lag and delayed NTP for MFU-7.
- *Plantwide Program Area – (\$2.1M below baseline)*
  - Project TZ - 504I6 - Elec Power Sys - Switch Gear is \$1.6M under for FY21 due to scope change and subsequent delays to start of Miscellaneous Facilities Contract 6 tasks.
- *Nitrogen Removal Program area – (\$2.7M below baseline)*
  - Project E8 – Enhanced Clarification Facilities is \$2.2M under for FY21 due to retainage, expected to be returned in FY21, now expected to be returned in FY22.



## Capital Improvement Program Report 4<sup>th</sup> Quarter FY2021

For clarity, the Combined Sewer Overflow (CSO) Service Area comments are addressed separately by the CSO and DC Clean Rivers Program Areas:

### CSO Program Area

Baseline Disbursements	\$5,403,000
Actual Disbursements	\$1,158,000 (\$4.2M below baseline)

Significant project variances are listed below:

- The disbursements for Project FQ – Main & O Pump Stations Intermediate Upgrades are \$2.8M below the baseline. This work is associated with Miscellaneous Facilities Contract 7, which is proceeding later than expected.

### DC Clean Rivers Program Area

Baseline Disbursements	\$165,434,000
Actual Disbursements	\$160,358,000 (\$5.0M below baseline)

There are no significant project variances currently projected over the fiscal year.

### Stormwater Service Area

Baseline Disbursements	\$5,936,000
Actual Disbursements	\$1,831,000 (\$4.1M below baseline)

Significant project variances are listed below:

- *Storm Pumping Facilities Program Area – (\$3.8M below baseline)*
  - The disbursements for Project NG - Storm Pump Stations Rehabilitation are \$3.8M below the baseline due to the Kenilworth DDOT construction contract procurement being delayed. Additionally, 1<sup>st</sup> and D Street pump station work was rescheduled to allow for higher priority work (Inflatable Dams) to proceed.

### Sanitary Sewer Service Area

Baseline Disbursements	\$50,538,000
Actual Disbursements	\$28,204,000 (\$22.3M below baseline)

Significant project variances are listed below:

- *Interceptor/ Trunk Force Sewers Program Area (\$14.6M below baseline)*
  - The disbursements for Project LZ – Potomac Interceptor Projects – Rehab Phase II are \$5.7M below the baseline due to slippages on multiple contracts under the LZ Project. These include:
    - An extended schedule for the Concept Finalization Report and National Environmental Policy Act requirements for Phase 1 Clara Barton Parkway segment.



## Capital Improvement Program Report 4<sup>th</sup> Quarter FY2021

- The completion of design for Phase 4 Fairfax/Loudoun County segment has been delayed, subsequently delaying construction activities.
- The design/build for Phase 5 (MH30-31) of the Pipe Rehab is \$2.8M below baseline due to additional permitting required due to changed field conditions.
- The disbursements for Project RA – Major Sewer Assessment and Heavy Cleaning 1 are \$1.9M below the baseline due to previously postponed procurements to alleviate spending concerns due to Covid.
- The disbursements for Project RD – Major Sewer Rehab 2 are \$1.2M below the baseline. This project will now be executed in partnership with DOEE and other agencies to create a holistic improvement to Oxon Run, the sewers, the adjacent park land, and other infrastructure. As such, our schedule will be adjusted to follow DDOE’s plan for bidding and executing this work, which is later than we previously planned.
- The disbursements for Project HT - Rehabilitation of Anacostia Force Main are \$1.6M below the baseline due to the Firth Stirling Construction DDOT activity, as payment depends on DDOT schedule.
- The disbursements for Project IL – Creekbed Sewer Rehabilitation 2 are \$1.6M below the baseline, due to slower than anticipated billing by the construction contractor for Creekbed Sewer Rehab at Ft Stanton Park, which is a joint project with DOEE, and slower billing for Creekbed Sewer Rehab at Oregon Ave., whose restoration was rescheduled for this spring.
- *Sanitary Program Management Program Area (\$5.0M below baseline)*
  - The disbursements for Project AU – Sanitary Sewer Program Management are \$3.2 M below baseline due to transition to the new Program Management Agreement.
  - The disbursements for Project DN – Sewer Inspection Program are \$1.7M below baseline due to a delay in inspection activities due to contractor and procurement issues.

### Water Service Area

Baseline Disbursements \$78,067,000 (revised for Lead Free DC)

Actual Disbursements \$55,873,000 (\$22.1M below baseline)

Significant project variances are listed below:

- *Water Distribution System Program (\$22.2M below baseline projection)*
  - The disbursements for Project F1 - Small Diameter Water Main Rehab 13 are \$3.8M below the forecast partially due to cost savings from transfer of paving to a Pepco project and partially due to DDOT open trench restrictions.
  - The disbursements for Project GR - Small Diameter Water Main Rehab 15 are \$1.6M below baseline due to Oregon Avenue DDOT activity as payment depends on DDOT schedule.
  - The disbursements for Project FT – Water Main Rehab Phase 2 are \$4.9M below baseline due to delaying the schedule to coordinate with the Clean Rivers project.



## Capital Improvement Program Report 4<sup>th</sup> Quarter FY2021

---

- The disbursements for Project HX - Small Diameter Water Main Rehab 16 are \$3.7M below baseline due to Florida Avenue DDOT activity as payment depends on DDOT schedule.
  - The disbursements for Project F2 – Small Diameter Water Main Rehab 14 are \$1.8M below baseline due a longer than expected design and permitting process. Because the project is located directly adjacent to the Supreme Court, additional permits and permissions were required by the Architect of the Capitol. This required additional coordination and negotiation as well as developing and confirming a Memorandum of Understanding.
  - The disbursements for Project O2 – Small Diameter Water Main Rehab 10 are \$1M below the baseline due to the actual quantities were less than the contract quantities, resulting in a lower contract cost.
- *Water Ongoing Program Area (\$2.6M above baseline projection)*
    - The disbursements for Project JA- FY2020 - DWS Water Projects are \$2.0M over baseline due to higher than anticipated water main break work. This is within the limits of forecasting accuracy for this program area as the number and size of emergency work is difficult to predict year-on-year



## Capital Improvement Program Report 4<sup>th</sup> Quarter FY2021

### Priority 1 Projects (Court Ordered, Stipulated Agreements, etc.)

All priority 1 projects are on schedule and within budget.

### Significant Contract Actions Anticipated – 6 Month Look-Ahead

Project	Name	Contract Type	Joint Use?	Cost Range	Committee	BOD
Various	Water Main As-Built – 2 Contracts	Design	No	\$5M-\$15M	EQ & Ops Dec	Jan
GR00	Small Diameter Watermain Rehab 15B	Construction	No	\$10M-\$15M	EQ & Ops Dec	Jan
Various	Construction Management BOA (DCFA-514)	Construction Management	Yes	\$5M-\$10M	EQ & Ops Jan	Feb
Various	Water and Sewer Assessment Support Services	Construction	Yes	\$5M-\$15M	EQ & Ops Feb	Mar
GR00	Small Diameter Watermain Rehab 15D	Construction	No	\$10M-\$15M	EQ & Ops Feb	Mar



## Capital Improvement Program Report 4<sup>th</sup> Quarter FY2021

### Schedule - Key Performance Indicators Capital Improvement Program

**Summary:**

For the 4<sup>th</sup> Quarter, the Key Performance Indicators (KPIs) completed this period were achieved within 90 days or earlier of their target date, except as noted.

#	Performance
21	KPIs completed within threshold
0	KPIs completed outside threshold
12	KPIs estimated to be completed outside threshold
21	Total KPIs completed this year
33	Total KPIs due this year

**Reasons for any KPIs not meeting the 90-day threshold this fiscal year:**

- Job LZ07 delays due to change in field conditions and need for Land Water Conservation Fund permits.
- Jobs SD01 and SC01 are both delayed due to the extended time needed to finalize the Program/Design Management contract for the Non-process Service Area
- Job DE04 in process of negotiating a Change Order with contractor for resolution of issue at Colonial Village, NW which will extend contract time.
- Job IL06 scope is being modified to incorporate all new requirements of National Park Service/National Environmental Policy Act that came into effect since the original design in 2018.
- Job EK01 was rescheduled to adjust for current priorities and resources.
- Job IY10 was rescheduled to provide time for additional consideration and analysis to ensure a complete scope of work is provided to the Project Design Engineer.
- Job NG05 was purposely delayed to allow higher-prioritized work to proceed
- Job I801 substantial completion was not reached due to lack of contractor responsiveness and permanent restoration rescheduled to spring of next year.
- Job IL10 completion approval by outside agencies took longer than expected, resulting in final restoration rescheduled to spring of next year.
- Job F103 was slowed by unanticipated Maintenance of Traffic (MOT) limitations.
- Job HH02 was slowed by longer than expected time to get utilities connected to the site.



## Capital Improvement Program Report 4<sup>th</sup> Quarter FY2021

The table below provides a detailed breakdown of each KPI due date grouped by Quarter:

**Table Key:** Positive variance = Finishing earlier than baseline plan    **Bold** = Actual Date achieved

Quarter	Job Code	Job Name	Activity Name	Due Date (Baseline)	Estimated Complete Date	Actual Complete Date	Variance (positive is early)	Met within 90 days
Q2	RC07	Major Sewer Rehab 1-5 Northeast Boundary	Design Start Milestone	1-Jan-21		<b>22-Mar-21</b>	-80	✓
Q2	KE01	Small Dia Water Main Rehab 18A	Design Start Milestone	28-Jan-21		<b>9-Dec-20</b>	50	✓
Q2	SD01	Main PS Building Modifications - Historic Restoration	KPI Design Start Milestone	29-Jan-21	29-Jan-22		-365	☐
Q2	F201	Small Diameter Water Main Repl 14A	Construction Start Milestone	2-Feb-21		<b>1-Feb-21</b>	1	✓
Q2	LD00	Pre-Dewatering Additional Centrifuges	Design Start Milestone	4-Feb-21		<b>1-Mar-21</b>	-25	✓
Q2	KE02	Small Dia Water Main Rehab 18B	Design Start Milestone	22-Feb-21		<b>1-Jan-21</b>	52	✓
Q2	CZ05	CSO 025/026 Sewer Separation	Consent Decree Construction Start KPI	23-Mar-21		<b>26-Jan-21</b>	55	✓
Q3	SC01	Main & O Seawall Restoration (Phase 2 HQO)	KPI Design Start Milestone	31-Mar-21	29-Jan-22		-304	☐
Q3	HH02	New Sewer Services Headquarters	Construction Substantial Completion Milestone	31-May-21		<b>27-Oct-21</b>	-149	☐
Q3	BV01	RWWPS No. 2 Upgrades	Construction Substantial Completion Milestone	1-Apr-21		<b>9-Mar-21</b>	23	✓
Q3	KE03	Small Dia Water Main Rehab 18C	Design Start Milestone	3-Apr-21		<b>8-Feb-21</b>	54	✓
Q3	KF01	SDWM Renewal 19A	Design Start Milestone	29-Apr-21		<b>1-Mar-21</b>	59	✓
Q3	DE04	Small Dia Water Main Repl 12B2 (Colonial Village & Bunker Hill)	Construction Substantial Completion	30-Apr-21	31-Oct-21		-184	☐
Q3	FA03	Soldiers Home Reservoir Upgrade	Construction Substantial Completion	21-May-21		<b>3-Aug-21</b>	-71	✓
Q3	KF02	SDWM Renewal 19B	Design Start Milestone	30-May-21		<b>10-May-21</b>	20	✓



## Capital Improvement Program Report 4<sup>th</sup> Quarter FY2021

Quarter	Job Code	Job Name	Activity Name	Due Date (Baseline)	Estimated Complete Date	Actual Complete Date	Variance (positive is early)	Met within 90 days
Q3	IY03	High & Low PSW Pumps Evaluation and Replacement	Construction Start Milestone	7-Jun-21		<b>21-Jul-21</b>	-44	✓
Q3	LZ07	PI Phase 5 Pipe Rehab between MH31 and MH30	Design-Build NTP - Phase II	13-Jun-21	15-Dec-21		-185	☐
Q4	JF03	Construction of Flood Seawall Segment C	Segment C Construction Substantial Completion Milestone	14-Jun-21		<b>14-Jun-21</b>	0	✓
Q4	G502	Creekbed Sewer Rehabilitation Soapstone Valley	Construction Start Milestone	1-Jul-21		<b>30-Sep-21</b>	-90	✓
Q4	IL06	Creekbed Sewer Rehabilitation Fenwick Branch E Beach Dr & Red Bud Lane	Design Start KPI Milestone	1-Jul-21	01-Apr-22		-274	☐
Q4	FT03	Out of Service LDWM Elimination Contract 1	Design Start Milestone	10-Jul-21		<b>10-May-21</b>	61	✓
Q4	F102	Small Diameter Water Main Repl 13B	Construction Substantial Completion	13-Jul-21		<b>30-Apr-21</b>	74	✓
Q4	F202	Small Diameter Water Main Repl 14B	Construction Start Milestone	15-Jul-21		<b>30-Jun-21</b>	15	✓
Q4	F101	Small Diameter Water Main Repl 13A	Construction Substantial Completion	16-Jul-21		<b>24-Feb-21</b>	142	✓
Q4	QS02	Local Sewer Rehab Project 5-2	Design Start Milestone	16-Jul-21		<b>9-Apr-21</b>	98	✓
Q4	KF03	SDWM Renewal 19C	Design Start Milestone	30-Jul-21		<b>1-Apr-21</b>	120	✓
Q4	EK01	Long Term Rehabilitation - Main Pump Station - Ph. 1	Concept Design Start Milestone	1-Aug-21	1-Oct-22		-426	☐
Q4	IY10	Filter Underdrain and Backwash System Upgrade (FUBS)	Design Start Milestone	2-Aug-21	7-Mar-22		-217	☐
Q4	F203	Small Diameter Water Main Repl 14C	Construction Start Milestone	10-Aug-21		<b>12-Jul-21</b>	29	✓
Q4	NG05	Stormwater Pump Station Rehab - 1st and D	Construction Start Milestone	9-Sep-21	3-Aug-22		-328	☐



### Capital Improvement Program Report 4<sup>th</sup> Quarter FY2021

Quarter	Job Code	Job Name	Activity Name	Due Date (Baseline)	Estimated Complete Date	Actual Complete Date	Variance (positive is early)	Met within 90 days
Q4	I801	Large Valve Replacements 11R	Construction Substantial Completion	30-Sep-21	30-Sep-22		-365	<input type="checkbox"/>
Q4	IL10	Creekbed Sewer Rehabilitation Rock Creek Oregon Avenue	Construction Substantial Completion	30-Sep-21	31-Mar-22		-182	<input type="checkbox"/>
Q4	F103	Small Diameter Water Main Repl 13C	Construction Substantial Completion	30-Sep-21	30-June-22		-273	<input type="checkbox"/>

**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 Methanol  
(Joint Use)**

This contract action is to execute option year 2 in the amount of \$9,270,000.00.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b> Colonial Chemicals, Inc. 916 West Lathrop Avenue Savanah, GA 31415	<b>SUBS:</b> N/A	<b>PARTICIPATION:</b> N/A
---	---------------------	------------------------------

**DESCRIPTION AND PURPOSE**

Base Period Contract Value:	\$7,000,000.00
Base Contract Period:	01-13-2020 – 01-12-2021
No. of Option Years:	2
Option Year 1 Value:	\$6,500,000.00
Option Year 1 Dates:	01-13-2021 – 01-12-2022
Option Year 2 Value:	\$9,270,000.00
Option Year 2 Dates:	01-13-2022 – 01-12-2023

**Purpose of the Contract:**

To secure the consistent supply and delivery of methanol to the Blue Plains Advanced Wastewater Treatment Plant. Methanol is used as the nutrient for bacteria in the Nitrification section of Blue Plains, where nitrogen is removed to comply with DC Water’s environmental permits as required by the EPA.

DC Water dual-sources methanol to assure continuity of supply. Colonial Chemical was awarded 90% of our volume requirements, and Mitsubishi was awarded 10%.

**Contract Scope:**

Under the contract, suppliers will deliver and provide all necessary equipment required to offload methanol into the designated storage tanks at the Blue Plains Wastewater Treatment.

The requested amount is significantly higher compared to previous years because global methanol pricing has risen significantly in the past year.

**Spending Previous Year:**

Cumulative Contract Value:	01-13-2020 to 01-12-2021: \$13,500,000.00
Cumulative Contract Spending:	01-13-2020 to 10-12-2021: \$12,215,317.00

**Contractor’s Past Performance:**

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

No LBE/LSBE participation.

**PROCUREMENT INFORMATION**

<b>Contract Type:</b>	Good and Services	<b>Award Based On:</b>	Best Value
<b>Commodity:</b>	Methanol	<b>Contract Number:</b>	19-PR-DWT-21A
<b>Contractor Market:</b>	Open Market		

**BUDGET INFORMATION**

<b>Funding:</b>	Operating	<b>Department:</b>	Wastewater Treatment
<b>Service Area:</b>	Blue Plains	<b>Department Head:</b>	Aklile Tesfaye

**ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	42.79%	\$3,966,633.00
Washington Suburban Sanitary Commission	41.94%	\$3,887,838.00
Fairfax County	9.83%	\$911,241.00
Loudoun Water	4.85%	\$449,595.00
Potomac Interceptor	0.59%	\$54,693.00
<b>TOTAL ESTIMATED DOLLAR AMOUNT</b>	<b>100.00%</b>	<b>\$9,270,000.00</b>

Aklile Tesfaye / 10/26/21  
 Aklile Tesfaye Date  
 VP of Wastewater Operation

\_\_\_\_\_/\_\_\_\_\_  
 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 CONTRACT OPTION YEAR  
Supply and Delivery of Methanol  
(Joint Use)**

This contract action is to execute option year 2 in the amount of \$1,030,000.00.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b> Mitsubishi International Corp. 655 Third Avenue New York, NY 10017	<b>SUBS:</b> N/A	<b>PARTICIPATION:</b> N/A
---	---------------------	------------------------------

**DESCRIPTION AND PURPOSE**

Base Period Contract Value:	\$700,000.00
Base Contract Period:	01-13-2020 – 01-12-2021
No. of Option Years:	2
Option Year 1 Value:	\$700,000.00
Option Year 1 Dates:	01-13-2021 – 01-12-2022
Option Year 1 Modification Value:	\$480,000.00
Option Year 1 Modification Dates:	10-13-2021 – 01-12-2022
Option Year 2 Value:	\$1,030,000.00
Option Year 2 Dates:	01-13-2022 – 01-12-2023

**Purpose of the Contract:**

To secure the consistent supply and delivery of methanol to the Blue Plains Advanced Wastewater Treatment Plant. The methanol is used as the nutrient for bacteria in the Nitrification section of Blue Plains, where nitrogen is removed to comply with DC Water’s environmental permits as required by the EPA.

DC Water dual-sources methanol to assure continuity of supply. Colonial Chemical was awarded 90% of our volume requirements, and Mitsubishi was awarded 10%.

**Contract Scope:**

Under the contract, suppliers will deliver and provide all necessary equipment required to offload methanol into the designated storage tanks at the Blue Plains Wastewater Treatment.

The requested amount is significantly higher compared to previous years because global methanol pricing has risen significantly in the past year.

**Spending Previous Year:**

Cumulative Contract Value:	01-13-2020 to 01-12-2022: \$1,880,000.00
Cumulative Contract Spending:	01-13-2020 to 10-12-2021: \$1,773,682.00

**Contractor’s Past Performance:**

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

No LBE/LSBE participation.

**PROCUREMENT INFORMATION**

<b>Contract Type:</b>	Good and Services	<b>Award Based On:</b>	Best Value
<b>Commodity:</b>	Methanol	<b>Contract Number:</b>	19-PR-DWT-21B
<b>Contractor Market:</b>	Open Market		

**BUDGET INFORMATION**

<b>Funding:</b>	Operating	<b>Department:</b>	Wastewater Treatment
<b>Service Area:</b>	Blue Plains	<b>Department Head:</b>	Aklile Tesfaye

**ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	42.79%	\$440,737.00
Washington Suburban Sanitary Commission	41.94%	\$431,982.00
Fairfax County	9.83%	\$101,249.00
Loudoun Water	4.85%	\$49,955.00
Other (PI)	0.59%	\$6,077.00
<b>TOTAL ESTIMATED DOLLAR AMOUNT</b>	<b>100.00%</b>	<b>\$1,030,000.00</b>

Aklile / 10/26/21  
 Aklile Tesfaye Date  
 VP of Wastewater Operation

\_\_\_\_\_/\_\_\_\_\_  
 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 CONTRACT OPTION YEAR  
IT SOFTWARE MANAGED SERVICES RENEWAL  
(Joint Use)**

Approval to exercise option year 3 for OpenText Software Managed Services in the amount of \$204,400.00.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b> Stellar Services, Inc. 70 West 36st Street, Ste. 702 New York, NY 10018 DBE	<b>SUBS:</b>	<b>PARTICIPATION:</b>  DBE - 100%
---	--------------	---

**DESCRIPTION AND PURPOSE**

Base Year Contract Value:	\$577,150.00
Base Year Contract Dates:	01-01-2019 – 12-31-2019
No. of Option Years in Contract:	3
Option Year 1 Value:	\$0.00
Option Year 1 Dates:	01-01-2020 – 12-31-2020
Modification 1 Value:	\$405,000.00
Modification 1 Dates:	02-28-2020 – 12-31-2020
Option Year 2 Value:	\$0.00
Option Year 2 Dates:	01-01-2021 – 12-31-2021
Option Year 3 Value:	\$204,400.00
Option Year 3 Dates:	01-01-2022 – 12-31-2022

**Purpose of the Contract:**

DC Water’s Department of Information Technology has a continuous need to maintain the Enterprise Document Management system which runs in the OpenText software. OpenText provides lifecycle documents management capabilities and needs managed services for improvements and custom updates.

**Contract Scope:**

The scope of OpenText Software Managed Services is to manage, monitor, configure, review, update and optimize the OpenText Software environment. Configure and maintain search functions and service applications for system maintenance.

**Spending Previous Years:**

Cumulative Contract Value:	01-01-2019 – 12-31-2021: \$982,150.00
Cumulative Contract Spending:	01-01-2019 – 10-31-2021: \$912,546.20

**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**

<b>Contract Type:</b>	Goods & Services	<b>Award Based On:</b>	Best Value
<b>Commodity:</b>	OpenText Software Managed Services	<b>Contract Number:</b>	18-PR-DIT-58
<b>Contractor Market:</b>	Open Market with Preference Points for LBE and LSBE Participation		

**BUDGET INFORMATION**

<b>Funding:</b>	Operating	<b>Department:</b>	Information Technology
<b>Project Area:</b>	DC Water Wide	<b>Department Head:</b>	Thomas Kuczynski

**ESTIMATED USER SHARE INFORMATION**

User – Operating	Share %	Dollar Amount
District of Columbia	70.05%	\$143,182.20
Washington Suburban Sanitary Commission	21.95%	\$44,865.80
Fairfax County	5.15%	\$10,526.60
Loudoun County	2.54%	\$5,191.76
Potomac Interceptor	0.31%	\$633.64
<b>TOTAL ESTIMATED DOLLAR AMOUNT</b>	<b>100.00%</b>	<b>\$204,400.00</b>

Thomas L. Kuczynski  
 Digitally signed by Thomas L. Kuczynski  
 Date: 2021.11.01 07:39:05 -04'00'

\_\_\_\_\_  
 Thomas Kuczynski Date  
 VP of Information Technology

  
 Digitally signed by Dan Bae  
 C=US, E=dan\_bae@dowater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae  
 Date: 2021.11.01 10:41:21 -04'00'

\_\_\_\_\_  
 Dan Bae Date  
 VP of Procurement and Compliance

Matthew T. Brown  
 Digitally signed by Matthew T. Brown  
 Date: 2021.11.08 14:57:08 -05'00'

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

\_\_\_\_\_  
 David L. Gadis Date  
 CEO and General Manager

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

**ACTION REQUESTED**

**GOODS AND SERVICES CONTRACT AWARD**

**RESIDUALS HAULING**

**(Joint Use)**

Approval to award and fund a contract award for Residual Hauling and Site Management services for a three-year base period and two option years in the amount of \$6,136,000.00.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b> Carter & Carter Enterprises, Inc. 212 Van Buren St., NW Washington, D.C. 20012 DBE (CBE)	<b>SUBS:</b>	<b>PARTICIPATION:</b>  DBE (CBE) - 100%
--	--------------	---

**DESCRIPTION AND PURPOSE**

Base Period Contract Value:	\$3,615,000.00
Base Period Contract Dates:	01-01-2022 – 12-31-2025
No. of Option Years in Contract:	2
Total Option Year 1-2 Value:	\$2,521,000.00
Option Year 1-2 Dates:	01-01-2026 – 12-31-2027
Number of Proposals:	1

**Purpose of the Contract:**

This contract provides DC Water’s Department of Wastewater Treatment (DWT) residuals hauling and site management services for grit and scum collected at the Blue Plains Screenings and Grit Removal Facilities and from the Tunnel Dewatering Pumping Station (TDPS).

**Contract Scope:**

The Contractor provides all necessary labor, supervision, equipment, materials, tools, insurance and personnel for the hauling and site management of grit, screenings, and scum from the above-mentioned areas. Carter & Carter Enterprises, Inc. staff are on site during the day and on call 24/7 to monitor trailers that are being filled. Carter & Carter’s trailers collect the screenings and grit material then weighs the trailers and hauls the collected material to permitted disposal facilities.

**Supplier Selection:**

An RFP solicitation for DC Water’s ongoing residuals hauling and site management services was issued to the open market with 32% DBE and 6% WBE utilization goals. Only Carter & Carter Enterprises, the incumbent, and a DBE, responded to the solicitation. DC Water is satisfied with the Contractor’s timeliness of deliverables and conformance to the requirements of the current contract.

**PROCUREMENT INFORMATION**

<b>Contract Type:</b>	Fixed Price	<b>Award Based On:</b>	Best Value
<b>Commodity:</b>	Hauling	<b>Contract Number:</b>	10124
<b>Contractor Market:</b>	Open Market with goals for DBE and WBE Participation		

**BUDGET INFORMATION**

<b>Funding:</b>	Operating	<b>Department:</b>	Wastewater Treatment
<b>Service Area:</b>	Blue Plains	<b>Department Head:</b>	Aklile Tesfaye

**ESTIMATED USER SHARE INFORMATION**

User - Operating	Share %	Dollar Amount
District of Columbia	42.79%	\$2,625,594.40
Washington Suburban Sanitary Commission	41.94%	\$2,573,438.40
Fairfax County	9.83%	\$603,168.80
Loudoun Water	4.85%	\$297,596.00
Other (PI)	0.59%	\$36,202.40
<b>TOTAL ESTIMATED DOLLAR AMOUNT</b>	<b>100.00%</b>	<b>\$6,136,000.00</b>

Aklile Tesfaye / 1/10/21/21  
 Aklile Tesfaye Date  
 VP of Wastewater Operation

\_\_\_\_\_/\_\_\_\_\_  
 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**

**ENGINEERING SERVICES:**

**As-Built Support Services, Basic Ordering Agreement (BOA)  
(Joint Use)**

Approval to execute an architectural and engineering services contract not to exceed \$4,000,000.00 for the contract period of three years plus two renewal periods of one year each. The renewal periods will be approved at DC Water's sole discretion.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b>	<b>SUBS:</b>	<b>PARTICIPATION:</b>
AMT LLC 10 G Street, NE Suite 430 Washington, DC 20002	CV, Inc Clarksburg, MD DBE	10.0%
	Kim Engineering, Inc. Beltsville, MD DBE	10.0%
	Mercado Consultants, Inc. Ashton, MD DBE	10.0%
	New Light Technologies, Inc. Washington, D.C. DSLBD/DBE	5.0%
	KCW Engineering Technologies Glen Burnie, MD WBE	8.0%
	Straughan Environmental, Inc. Columbia, MD WBE	2.0%

**DESCRIPTION AND PURPOSE**

Contract Value, Not-To-Exceed: \$ 4,000,000.00  
 Contract Time: 1,825 Days (5 Year, 0 Months)  
 Anticipated Contract Start Date (NTP): 01/10/2022  
 Anticipated Contract Completion Date: 01/09/2027  
 Bid Opening Date: 08/31/2021  
 Bids Received: 9  
 Other Bids Received  
 C.C. Johnson & Malhotra, P.C.  
 CNC Civil Services, LLC  
 Cube Root Corporation  
 EBA Engineering, Inc./Accurate Infrastructure Data, Inc. (EBA/AID) (JV) \*  
 Johnson Mirmiran & Thompson  
 Peer Consultants PC  
 Precision Measurements, Inc.  
 SZ PM Consultants, Inc.

\* Asterisk indicates short listed firms.

**Purpose of the Contract:**

Provide engineering support services for the Department of Engineering and Technical Services (DETS). These support services may be needed during capital design projects and operational needs.

**Contract Scope:**

The scope of work will include document scanning, Computer-Aided Design (CAD), field survey, Subsurface Utility Engineering (SUE), and Geographic Information System (GIS) work, traffic control plans and other engineering services.

**PROCUREMENT INFORMATION**

<b>Contract Type:</b>	Lump Sum & Cost-Plus Fix Fee	<b>Award Based On:</b>	Highest Ranking Score
<b>Commodity:</b>	Engineering Design Services	<b>Contract Number:</b>	DCFA #515
<b>Contractor Market:</b>	Open Market		

**BUDGET INFORMATION**

<b>Funding:</b>	Capital	<b>Department:</b>	Engineering and Technical Services
<b>Service Area:</b>	Water, Combined Sewer, Sanitary Sewer, Stormwater	<b>Department Head:</b>	Mark Babbitt (Acting)
<b>Project:</b>	GR, HX, KE, KG		

**\*\*ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 4,000,000.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
<b>Total Estimated Dollar Amount</b>	<b>100.00%</b>	<b>\$ 4,000,000.00</b>

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

\_\_\_\_\_/\_\_\_\_\_  
 Salil Kharkar Date  
 Senior Technical Advisor to COO

\_\_\_\_\_/\_\_\_\_\_  
 Dan Bae, VP Date  
 Procurement and Compliance

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

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

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

**ACTION REQUESTED**

**ENGINEERING SERVICES:**

**As-Built Support Services, Basic Ordering Agreement (BOA)  
(Joint Use)**

Approval to execute an architectural and engineering services contract not to exceed \$4,000,000.00 for the contract period of three years plus two renewal periods of one year each. The renewal periods will be approved at DC Water's sole discretion.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b>	<b>SUBS:</b>	<b>PARTICIPATION:</b>
EBA Engineering, Inc. (DBE, 25%) /Accurate Infrastructure Data, Inc. (EBA/AID) (JV) 6100 Chevy Chase Drive, Suite 200 Laurel, MD 20707	Capitol Development Design, Inc. Beltsville, MD DBE	5.0%
	InterAgency, Inc. Washington, D.C. DBE	3.0%
	Wave Civil, LLC. Alexandria, VA DBE	2.0%
	Rice Associates, Inc. Manassas, VA WBE	8.0%
	Straughan Environmental, Inc. Columbia, MD WBE	2.0%

**DESCRIPTION AND PURPOSE**

Contract Value, Not-To-Exceed: \$ 4,000,000.00  
 Contract Time: 1,825 Days (5 Year, 0 Months)  
 Anticipated Contract Start Date (NTP): 01/10/2022  
 Anticipated Contract Completion Date: 01/09/2027  
 Bid Opening Date: 08/31/2021  
 Bids Received: 9  
 Other Bids Received  
 AMT LLC\*  
 C.C. Johnson & Malhotra, P.C.  
 CNC Civil Services, LLC  
 Cube Root Corporation  
 Johnson Mirmiran & Thompson  
 Peer Consultants PC  
 Precision Measurements, Inc.  
 SZ PM Consultants, Inc.

\* Asterisk indicates short listed firms.

**Purpose of the Contract:**

Provide engineering support services for the Department of Engineering and Technical Services (DETS). These support services may be needed during capital design projects and operational needs.

**Contract Scope:**

The scope of work will include document scanning, Computer-Aided Design (CAD), field survey, Subsurface Utility Engineering (SUE), and Geographic Information System (GIS) work, traffic control plans and other engineering services.

**PROCUREMENT INFORMATION**

<b>Contract Type:</b>	Lump Sum & Cost-Plus Fix Fee	<b>Award Based On:</b>	Highest Ranking Score
<b>Commodity:</b>	Engineering Design Services	<b>Contract Number:</b>	DCFA #516
<b>Contractor Market:</b>	Open Market		

**BUDGET INFORMATION**

<b>Funding:</b>	Capital	<b>Department:</b>	Engineering and Technical Services
<b>Service Area:</b>	Water, Combined Sewer, Sanitary Sewer, Stormwater	<b>Department Head:</b>	Mark Babbitt (Acting)
<b>Project:</b>	KG, KF		

**\*\*ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 4,000,000.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
<b>Total Estimated Dollar Amount</b>	<b>100.00%</b>	<b>\$ 4,000,000.00</b>

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

\_\_\_\_\_/\_\_\_\_\_  
 Salil Kharkar Date  
 Senior Technical Advisor to COO

\_\_\_\_\_/\_\_\_\_\_  
 Dan Bae, VP Date  
 Procurement and Compliance

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

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

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

**ACTION REQUESTED**

**ENGINEERING SERVICES SUPPLEMENTAL AGREEMENT:**

**Engineering Program Management Consultant 2F  
(Non-Joint Use)**

Approval to execute Supplemental Agreement No. 2 for \$7,000,000. The modification exceeds the General Manager's approval authority.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b>	<b>SUBS:</b>	<b>PARTICIPATION:</b>
Mott MacDonald I&E, LLC The Nature Conservancy Building 4245 N. Fairfax Drive Suite 800 Arlington, VA 22203	C.C. Johnson & Malhotra, P.C. Washington, DC DBE	10.0%
	DM Enterprises of Baltimore Baltimore, MD DBE	9.0%
	McKissack & McKissack Washington, DC DBE	7.0%
	SZ PM Consultants, Inc. Washington, DC WBE	6.0%

**DESCRIPTION AND PURPOSE**

Original Contract Value:	\$20,000,000.00
Value of this Supplemental Agreement	\$ 7,000,000.00
Cumulative SA Value, including this SA	\$ 9,203,000.00
Current Contract Value, including this SA	\$29,203,000.00
Original Contract Time:	1,825 Days (5 Years, 0 Months)
Time extension, this SA:	0 days
Total SA contract time extension	0 days
Contract Start Date:	02/01/2020
Contract Completion Date:	01/25/2025

**Purpose of the Contract:**

To provide program management of the water service area Capital Improvements Program (CIP); provide technical support, staff augmentation and support operations of the water service area.

**Original Contract Scope:**

- Program management of the water service area CIP.
- Provide technical support to the water service area.
- Augment DC Water staff with experienced & qualified technical resources and Project Managers.
- Support operational departments.

**Previous Supplemental Agreement Scope:**

To provide support of DC Water's Lead-Free DC Program (LFDC) with a goal to replace all lead service lines in the District of Columbia by 2030. The scope of this Supplemental Agreement includes the following services thru 12/31/2021.

- Project planning, design and permitting support, Geographic Information System (GIS) and data management support and project controls and risk management for Phase 2 of the Program
- Capital Improvement Project and Emergency Repair Replacement (CIPERR) by-Block Team lead, organization, and coordination with overall LFDC Program

- Lead Pipe Replacement Assistance Program (LPRAP) support for private only lead service replacement portion of the LFDC Program

**Current Supplemental Agreement Scope:**

To continue providing support for DC Water’s Lead-Free DC Program (LFDC) with a goal to replace all lead service lines in the District of Columbia by 2030. The scope of this Supplemental Agreement:

1. Extends the following services from 01/01/2022 to 09/30/2022.
  - Project planning, design and permitting support, GIS and data management support and project controls and risk management for Phase 2 of the Program
  - Capital Improvement Project and Emergency Repair Replacement (CIPERR) by-Block Team lead, organization, and coordination with overall LFDC Program
  - Lead Pipe Replacement Assistance Program (LPRAP) support for private only lead service replacement portion of the LFDC Program
2. Construction Inspection and Construction Management Services for the CIPERR Block by Block lead service replacement contracts.
3. LFDC communications and outreach support.

**Future Supplemental Agreement Scope:**

- A future Supplemental Agreement of approximately \$1.8M for FY23 is anticipated in order to continue with the support until the new LFDC Program Management consultant is on-board. It also includes the transition time support.

**Federal Grant Status:**

- Work under this SA may be eligible for Federal grant funding assistance.

**PROCUREMENT INFORMATION**

<b>Contract Type:</b>	Cost Plus Fixed Fee & Lump Sum	<b>Award Based On:</b>	Highest Ranking Score
<b>Commodity:</b>	Engineering Services	<b>Contract Number:</b>	DCFA #502
<b>Contractor Market:</b>	Open Market		

**BUDGET INFORMATION**

<b>Funding:</b>	Capital	<b>Department:</b>	Engineering and Technical Services
<b>Service Area:</b>	Water	<b>Department Head:</b>	Mark Babbitt (Acting)
<b>Project:</b>	ST		

**ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$7,000,000.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
<b>Total Estimated Dollar Amount</b>	<b>100.00%</b>	<b>\$7,000,000.00</b>

Digitally signed by Sallil M Kharkar  
 DN: dc=oom, dc=dcwasa, ou=WASA Users, ou=Waste Water Operations, cn=Sallil M Kharkar, email=Sallil.Kharkar@dcwater.com  
 Date: 2021.11.03 15:55:21 -04'00'

Sallil Kharkar \_\_\_\_\_ Date  
 Senior Technical Advisor to COO

Digitally signed by Dan Bae  
 C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae  
 Date: 2021.11.04 10:20:32 -04'00'

Dan Bae, VP \_\_\_\_\_ Date  
 Procurement and Compliance

Digitally signed by Matthew T. Brown  
 Date: 2021.11.10 11:32:21 -05'00'

Matthew T. Brown \_\_\_\_\_ Date  
 CFO and EVP  
 Finance and Procurement

David L. Gadis \_\_\_\_\_ Date  
 CEO and General Manager



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

---

*Briefing on:*

## *DC Clean Rivers Project Quarterly Update*

*Briefing for:*

## *Environmental Quality & Operations Committee Meeting*

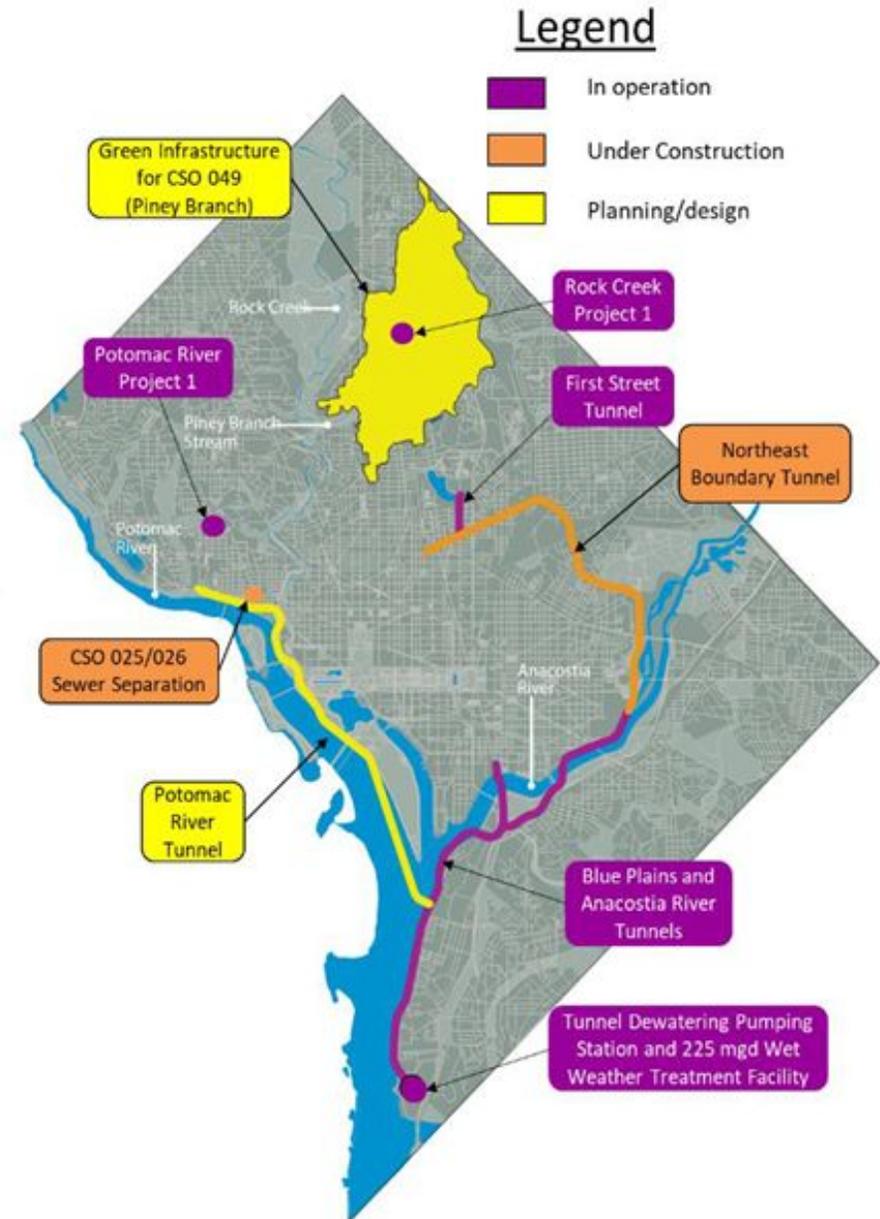
**November 16, 2021**



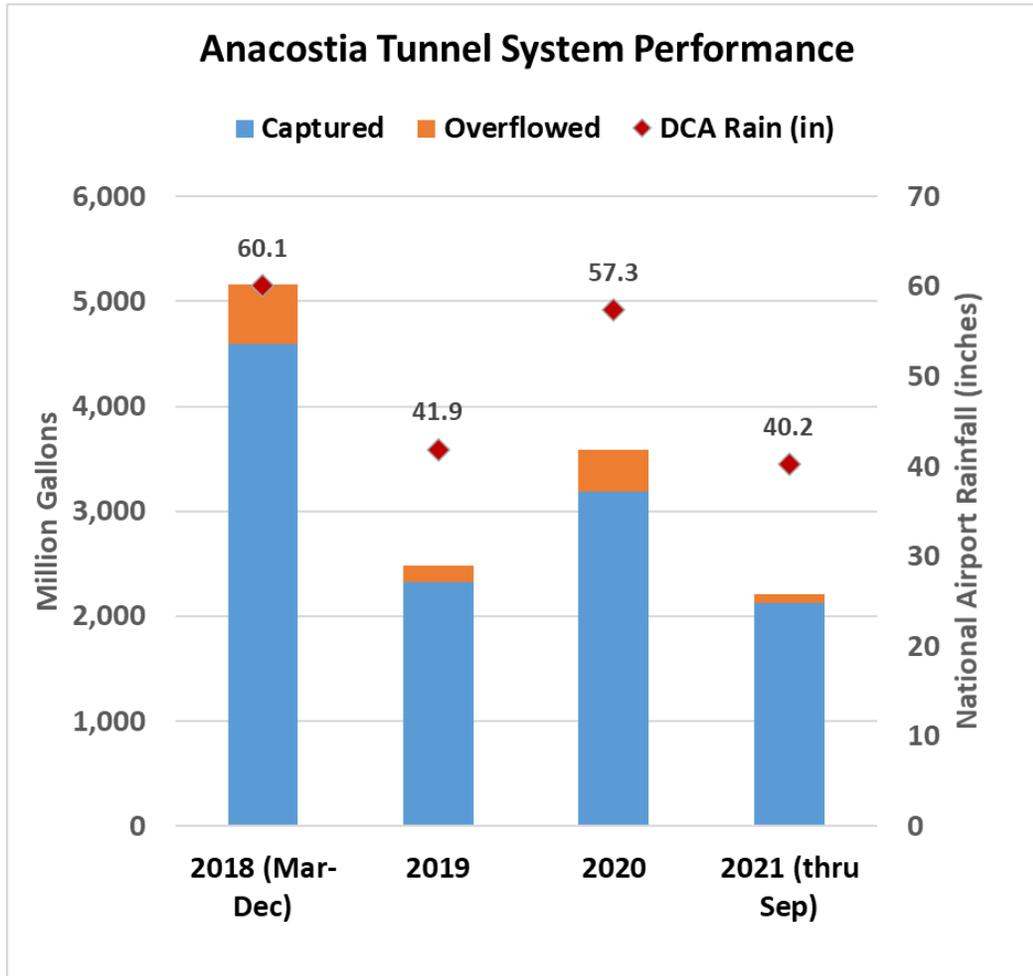
**DCWATER.COM**

# Project Snapshot

- Anacostia River tunnel system - more than 12 billion gallons captured to date!
- Northeast Boundary Tunnel
  - Tunnel complete, working on surface connections to tunnel
- Green Infrastructure
  - Rock Creek Project B (RC-B) construction contract award anticipated next month
- CSO 025/026 Sewer Separation Project awarded
  - Construction underway in Georgetown
- Potomac Tunnel
  - Contract A (Utilities) – contract awarded and initial submittals underway
  - Contract B (Tunnel) – working on 90% RFP documents



# Anacostia Tunnel System Performance



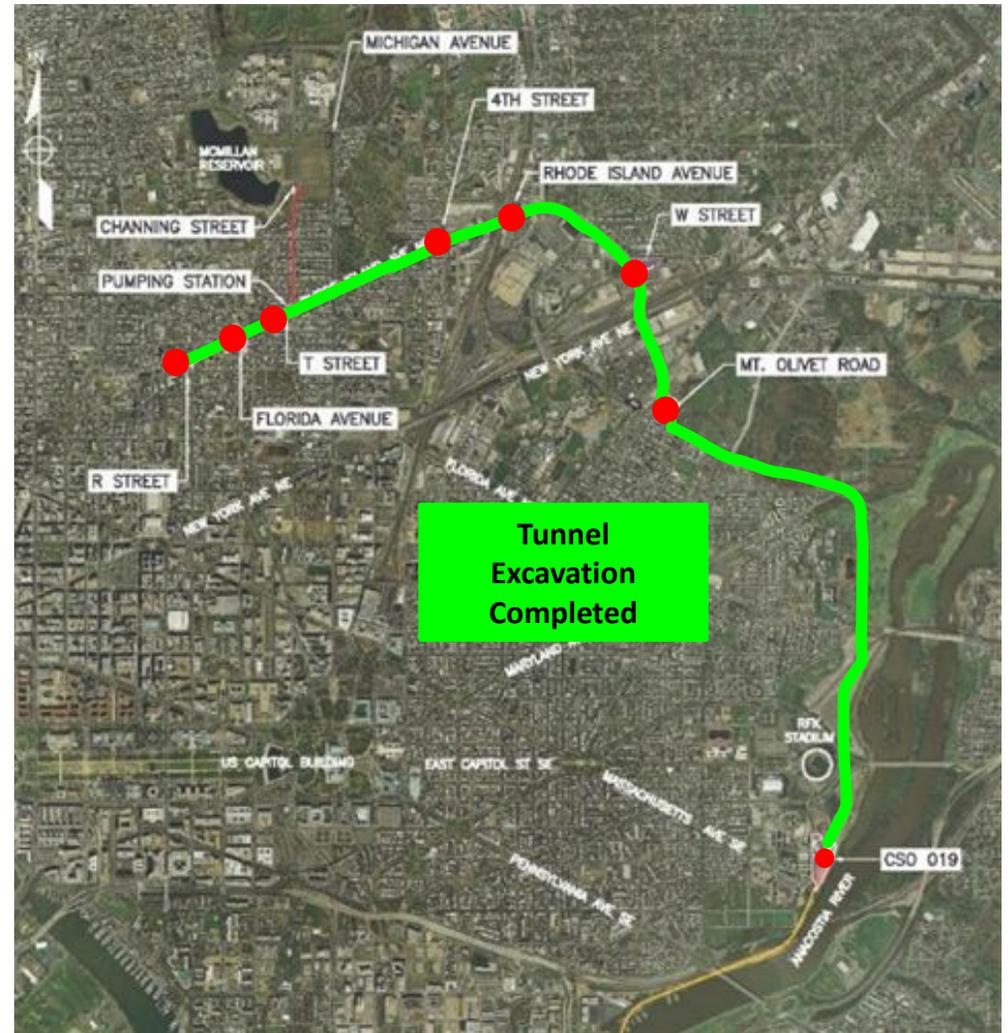
- Over **12.1 billion** gallons captured Mar 2018 - Sep 2021
- Over **7,539 tons** of trash, debris, and other solids captured
- Exceeding predicted capture rate (90% > 80%)



Trash, Debris and Solids Removal from Screening Shaft at Tunnel Dewatering Pumping Station

# Division J – Northeast Boundary Tunnel Construction Progress: Tunnel

- Tunnel Cleanup Continues - 95% complete
- Adit/Tunnel Connection Work
  - Mobilizing for First Street Tunnel Connection
  - Installed NEBT Support Frames at T Street and Florida Avenue for Adit Connections



# Division J – Northeast Boundary Tunnel Construction Progress: Tunnel



Tunnel- T Street Adit Frame

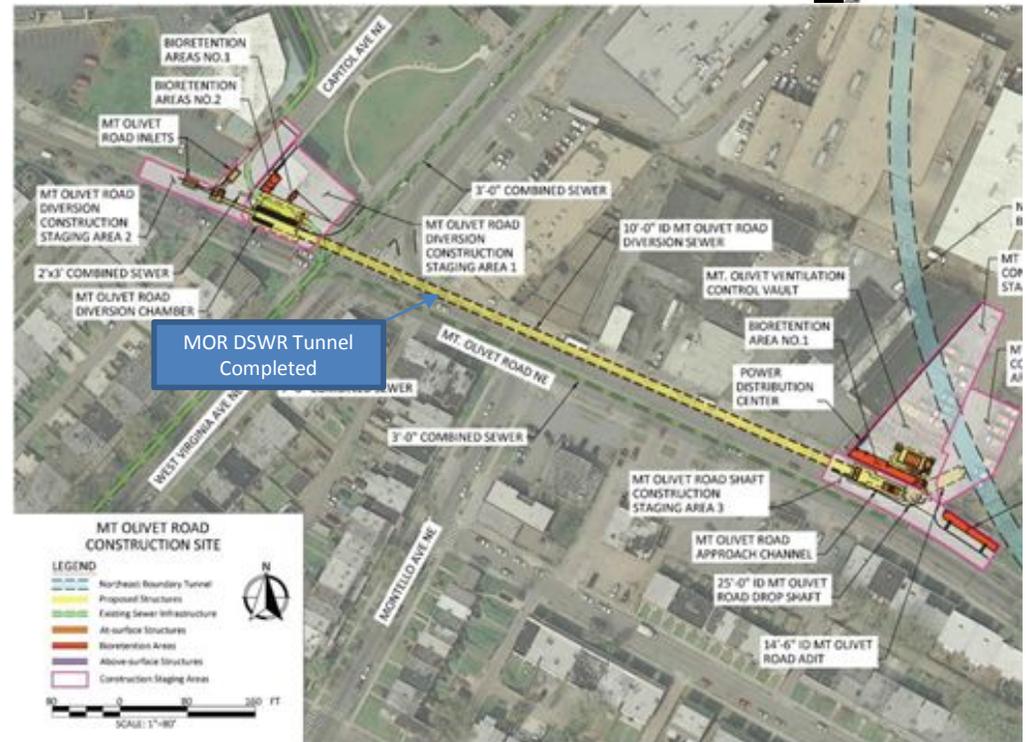


Tunnel – Florida Ave Adit Frame

# Division J – Northeast Boundary Tunnel Construction Progress: Mount Olivet Rd.

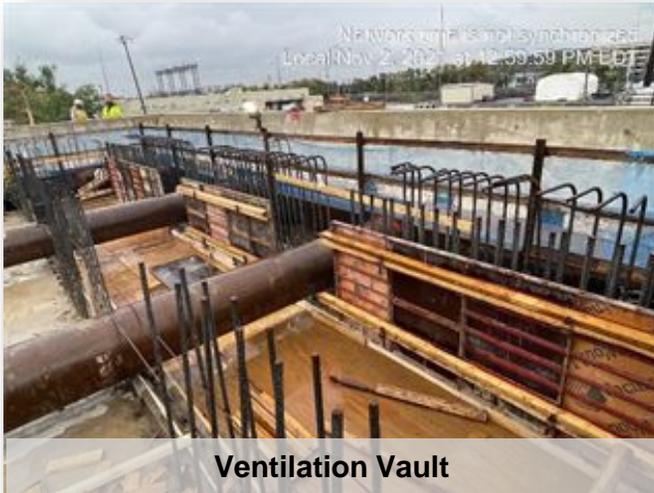


Dismantling MTBM – Removing the Cutterhead

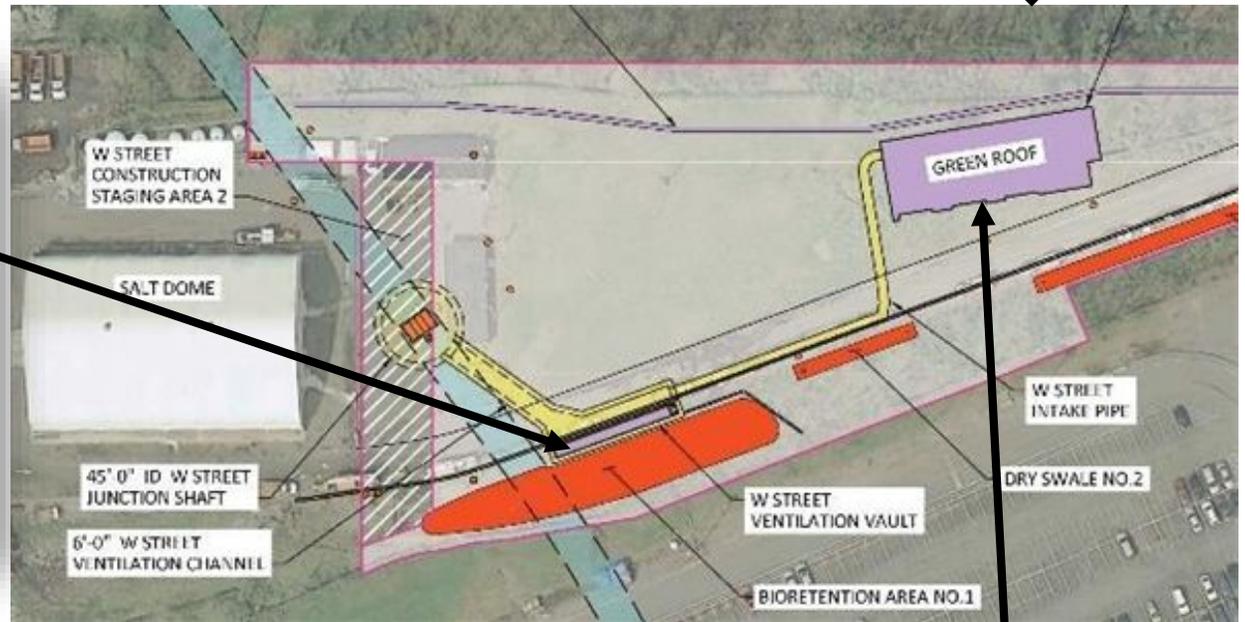


- 11-foot diameter Tunnel Boring Machine delivered, assembled and launched on August 16, 2021.
- Completed excavation and installation of new 718-foot long, 10.5-foot diameter sewer on Saturday, October 16, 2021.
- Currently demobilizing machine to continue with Diversion Chamber and Approach Channel structure construction.

# Division J – Northeast Boundary Tunnel Construction Progress: W Street



Ventilation Vault



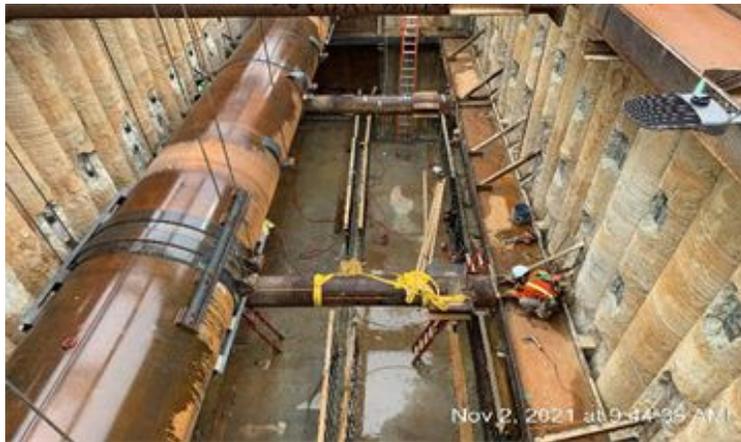
- Completed Ventilation Channel (VC) and Ventilation Vault (VV) CIP walls and decking up to roof level.
- Completed Ventilation Control Facility base slab and foundation walls for subgrade area.



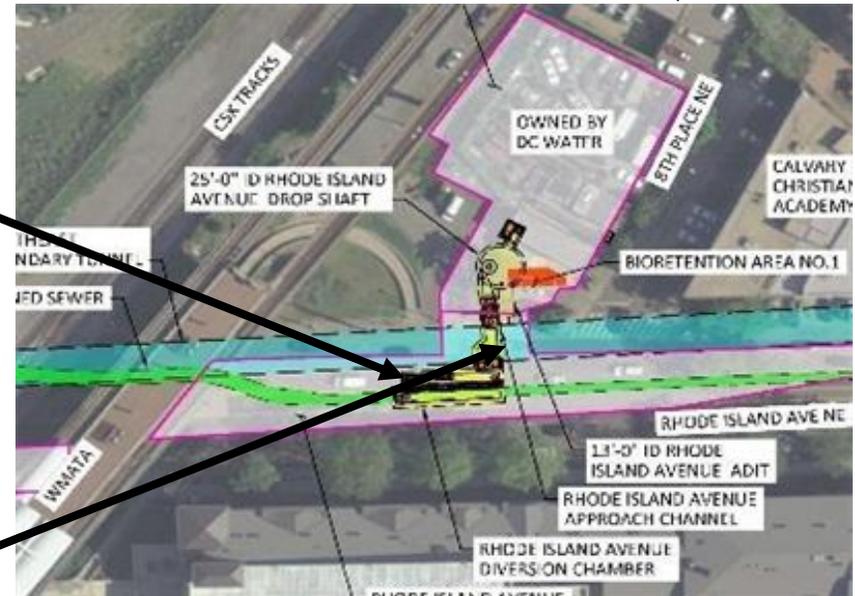
Ventilation Control Facility



# Division J – Northeast Boundary Tunnel Construction Progress: Rhode Island Ave



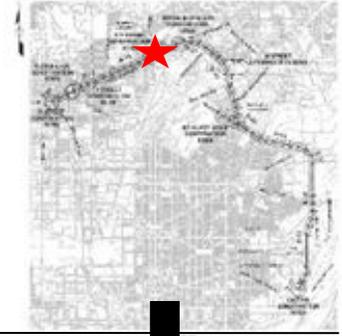
**Diversion Chamber**



**Adit Concrete Liner**

- Completed Diversion Chamber excavation and placed concrete base slab. Working on structure walls.
- Completed Adit excavation and installed concrete lining.
- Excavating to install Ventilation Vault structure just north of Shaft.

# Division J – Northeast Boundary Tunnel Construction Progress: 4<sup>th</sup> Street



Drop Shaft Cover

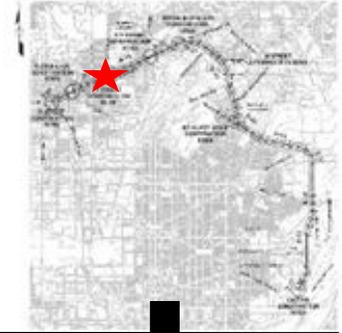
- Completed Adit and Shaft Internal Hydraulic Structures
- Diversion Chamber and Approach Channel Structures nearing completion
- Preparing for placement of Drop Shaft cover



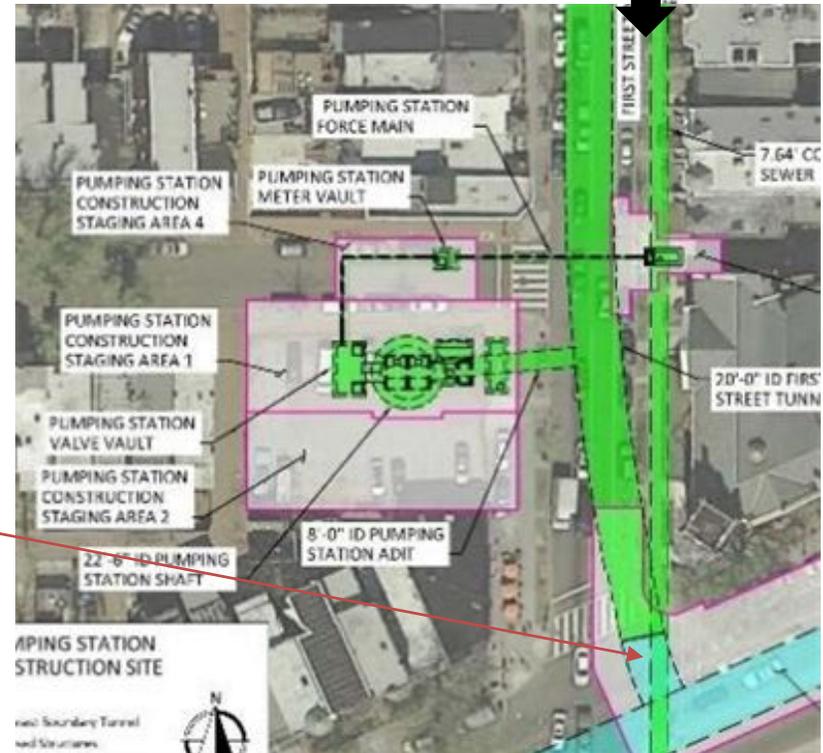
Approach Channel Backfill



# Division J – Northeast Boundary Tunnel Construction Progress: Pumping Station

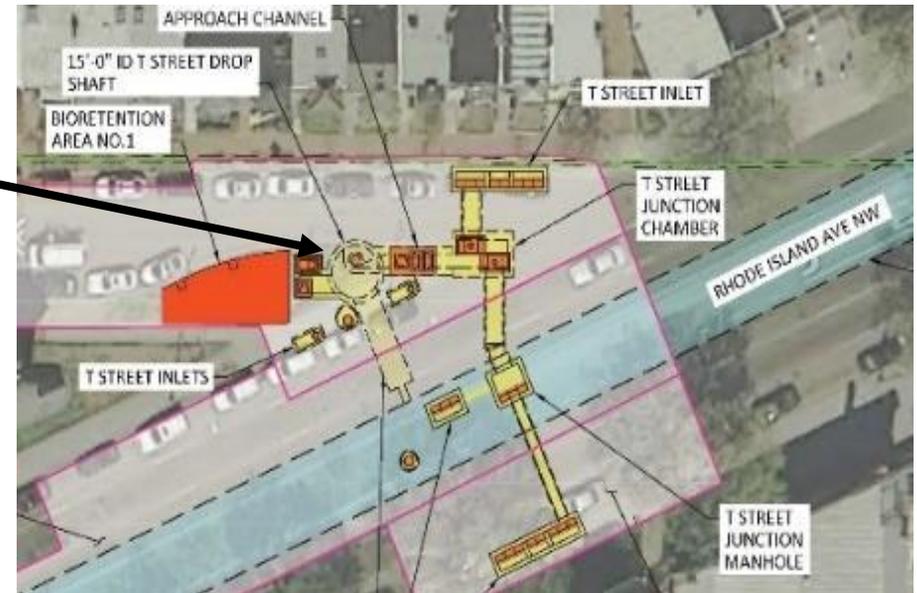
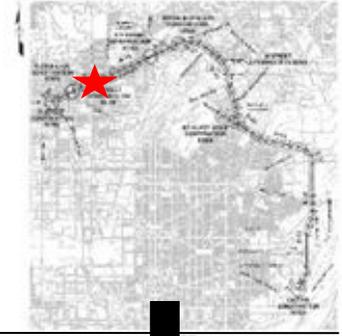


FSCT – Installed lifting beam to prep for Liner placement



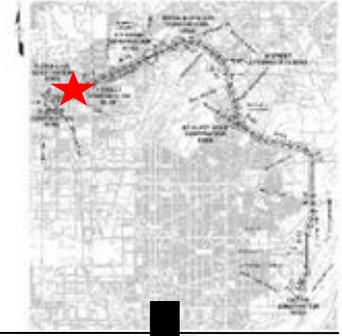
- No activity at the surface.
- Mobilizing to perform First Street Tunnel Connection
  - Form and cast 18-inch thick concrete liner in main tunnel
  - Perform connection to First Street Tunnel

# Division J – Northeast Boundary Tunnel Construction Progress: T Street



- Completed shaft concrete liner and Adit excavation. Installing Adit concrete lining.
- Completed Approach Channel/Junction Chamber excavation and installed base slab.

# Division J – Northeast Boundary Tunnel Construction Progress: Florida Ave



Approach Channel

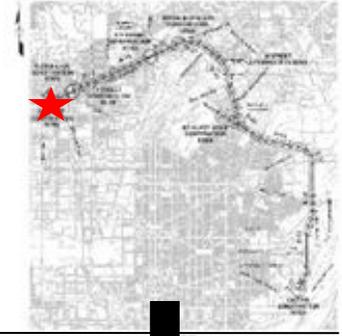


Diversion Chamber



- Completed Drop Shaft concrete lining.
- Completed set-up of Adit ground freeze system.
- Completed Diversion Chamber concrete base slab and walls.
- Installed 8-foot reinforced concrete pipe connecting Diversion Chamber to the Approach Channel.

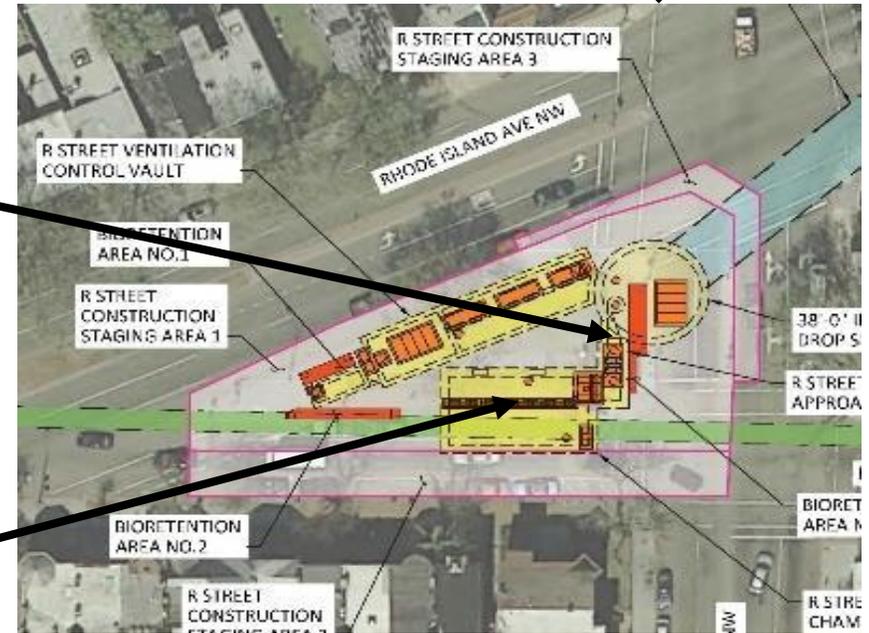
# Division J – Northeast Boundary Tunnel Construction Progress: R Street



AC/Shaft Connection



Diversion Chamber



- Completed Approach Channel/Diversion Chamber excavation and installed temporary flume.
- Completed Diversion Chamber concrete base slab and started on structure walls.
- Removed portion of slurry wall for Approach Channel/Shaft connection.

# Division J – Northeast Boundary Tunnel Public Outreach Efforts

## Partnerships with Main Street Organizations – Ongoing Coordination

**Meetings, Projects, and Issues** - Coordinated two Tunnel Forum Meetings in September for residents.

Continue to work with local ANCs and DCRA to coordinate after-hours work at various sites. The Florida Avenue work site is currently preparing for ground freeze plant system operation 24 hours a day/7 days a week.

**Commuter Outreach Program** - Continued to coordinate with Office of Marketing and Communications for DC Water sponsored articles on various aspects of the Northeast Boundary Tunnel and the Clean Rivers Project.

**Sponsored Cool Art & Cleaner Rivers storm drain mural contests with 4 winners.**

2<sup>nd</sup> St./Rhode Island Ave. NW



R St./6<sup>th</sup> St. NW



2<sup>nd</sup> Street/Florida NW

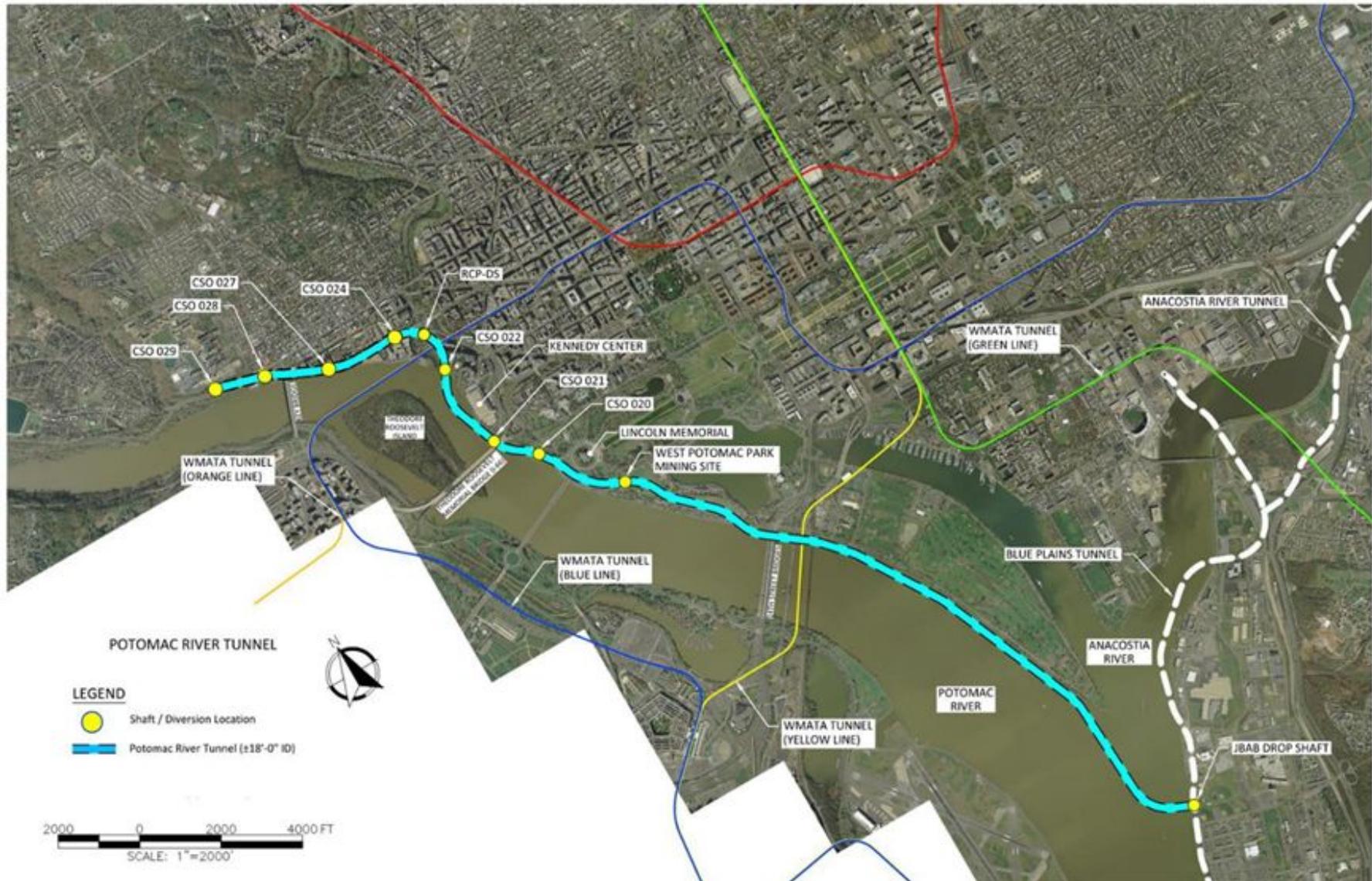


T St./Summit Place NE





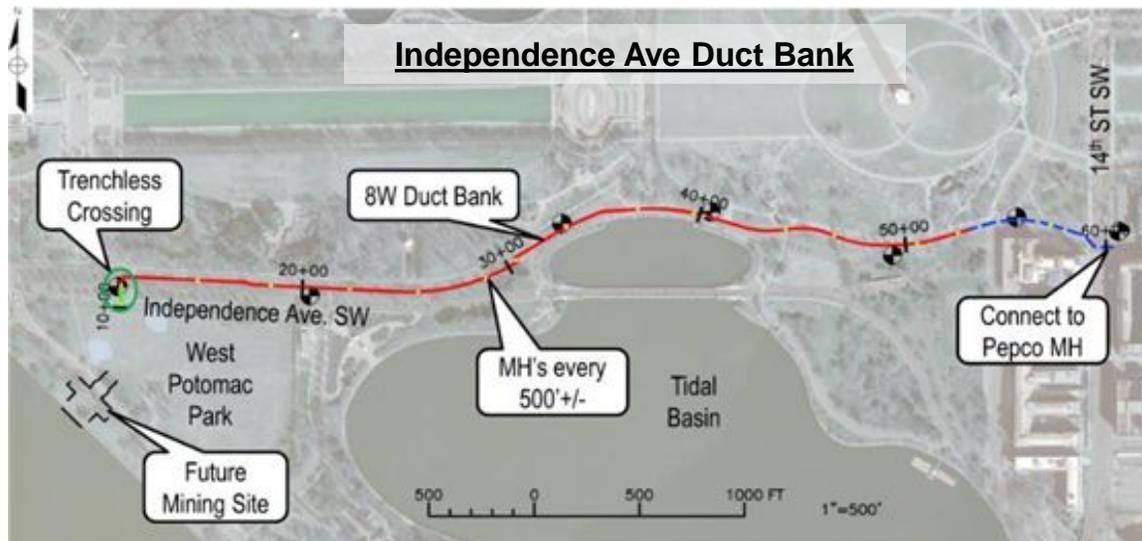
# Potomac River Tunnel Projects





# Potomac River Tunnel Contract A Advanced Utility Construction

- Project Purpose: Construct electrical power to Potomac River Tunnel construction sites
- Schedule:
  - Notice to Proceed: September 9, 2021
  - Preconstruction Conference: October 7, 2021
  - Construction Estimated Start: December 23, 2021
  - Estimated Completion – Independence Avenue Scope: Late 2022
- Construction Contractor: Anchor Construction Corporation preparing initial submittals (safety, schedule, workplan, permits, etc.)





# Potomac River Tunnel Contract B Tunnel System Construction

- Design Update
  - 90% RFP documents being prepared
  - Geotechnical borings underway
  - Coordinating with external stakeholders including other utilities, NPS, DDOT, WMATA, Georgetown University, and community groups
    - Follow-up meetings are being scheduled with stakeholders and agencies to finalize agreements for 90% design.
- Schedule for Tunnel Contract (Best Value, Design-Build):
  - Industry Outreach: conducted Oct 2021 ✓
  - 90% RFP: December 2021
  - RFQ Issuance: Jan 2022
  - 100% RFP: June 2022
  - Award, Begin Construction: Dec 2023
  - Place in Operation: February 2030



Geotechnical Investigations Along Alignment

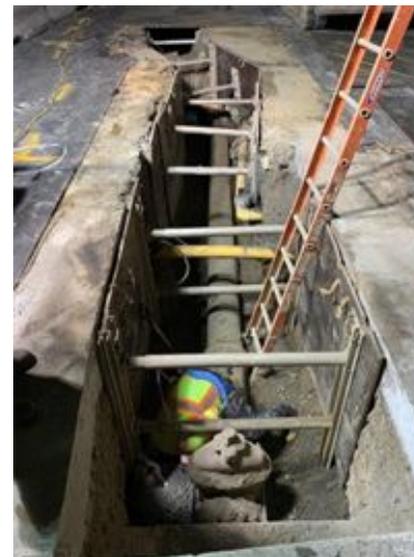


CSO 027 Site Rendering



# CSO 025/026 Sewer Separation

- Work Summary:
  - 12" Waterline on K/31st Streets Relocated
  - New Sewer Line connection to UPI at K/31st Streets ongoing
  - 6" Waterline Relocation on South/31st Streets ongoing
  - Preparing for construction work at Structure 44 on K Street and 15-inch sewer line installation up 31 Street



# Green Infrastructure Rock Creek Project B



## Consent Decree Requirements

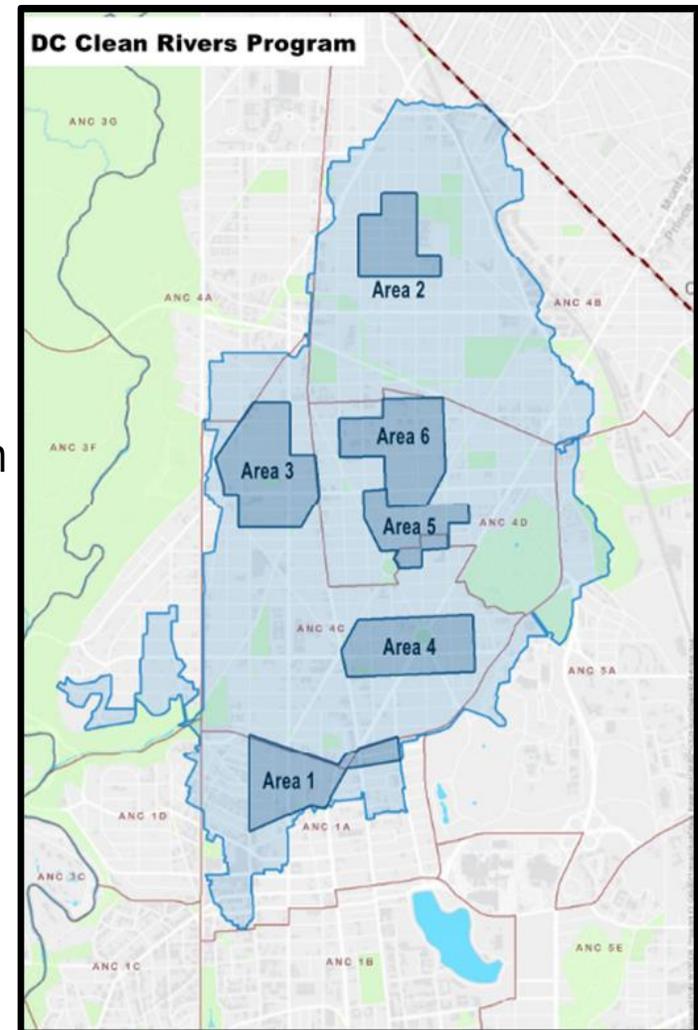
- Manage 22 impervious acres with green infrastructure
- Award Construction by January 23, 2022
- Place in Operation by end of January 23, 2024

## Approach

- Extremely short timeframe for design and procurement
- Focus on right-of-way standardized planter bioretention and permeable alleys

## Procurement Steps

- ✓ Request for Qualifications issued February 2021
- ✓ Firms shortlisted May 2021
- ✓ Request for Proposals issued June 1, 2021
- ✓ Proposals received July 27, 2021
- Anticipate contract award in December 2021, ahead of Consent Decree deadline



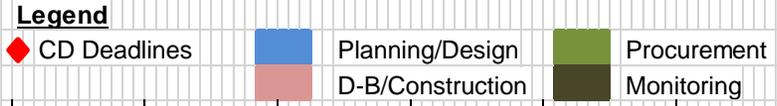
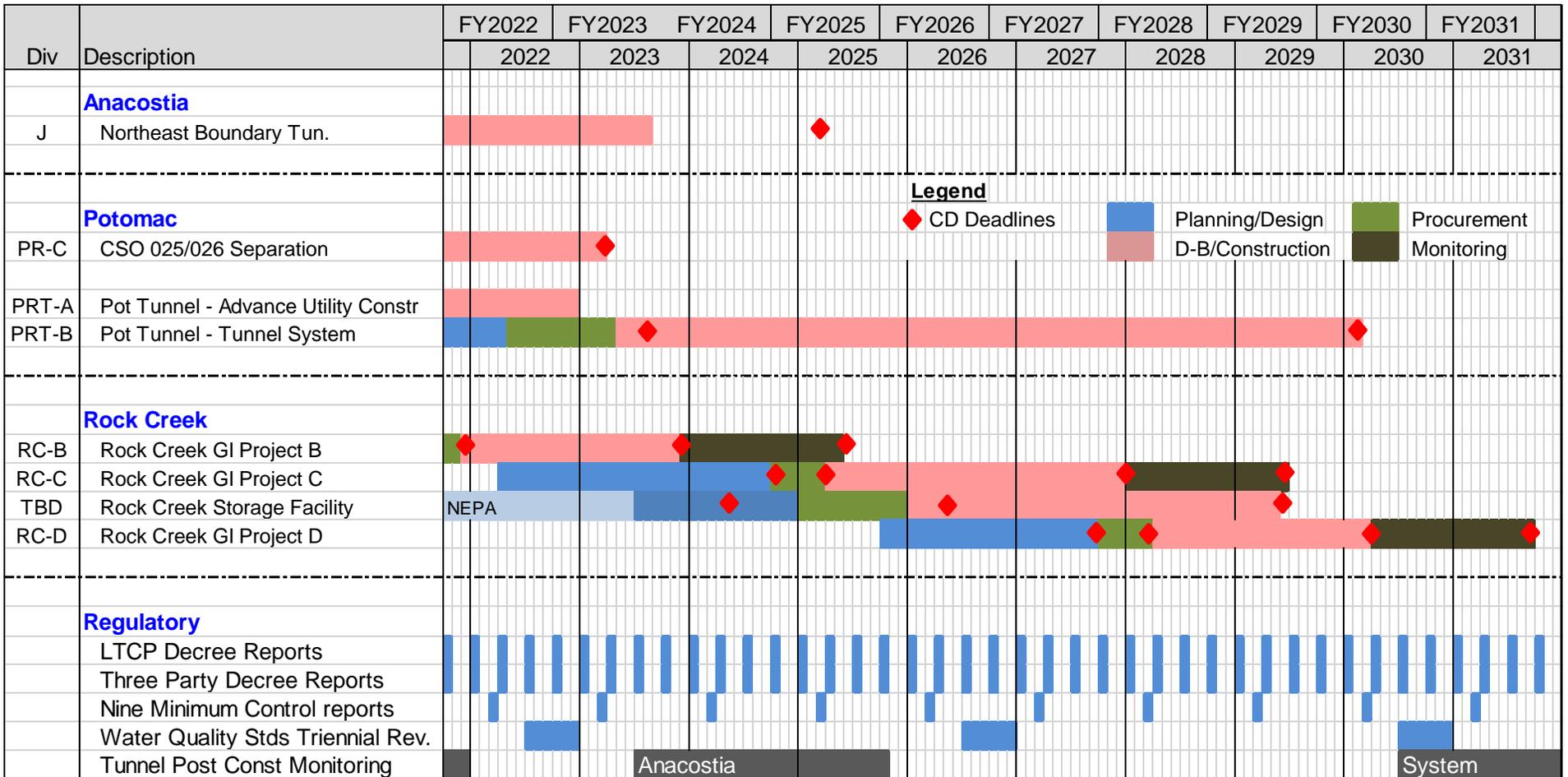
# GI Maintenance

## Ongoing Contracted Maintenance

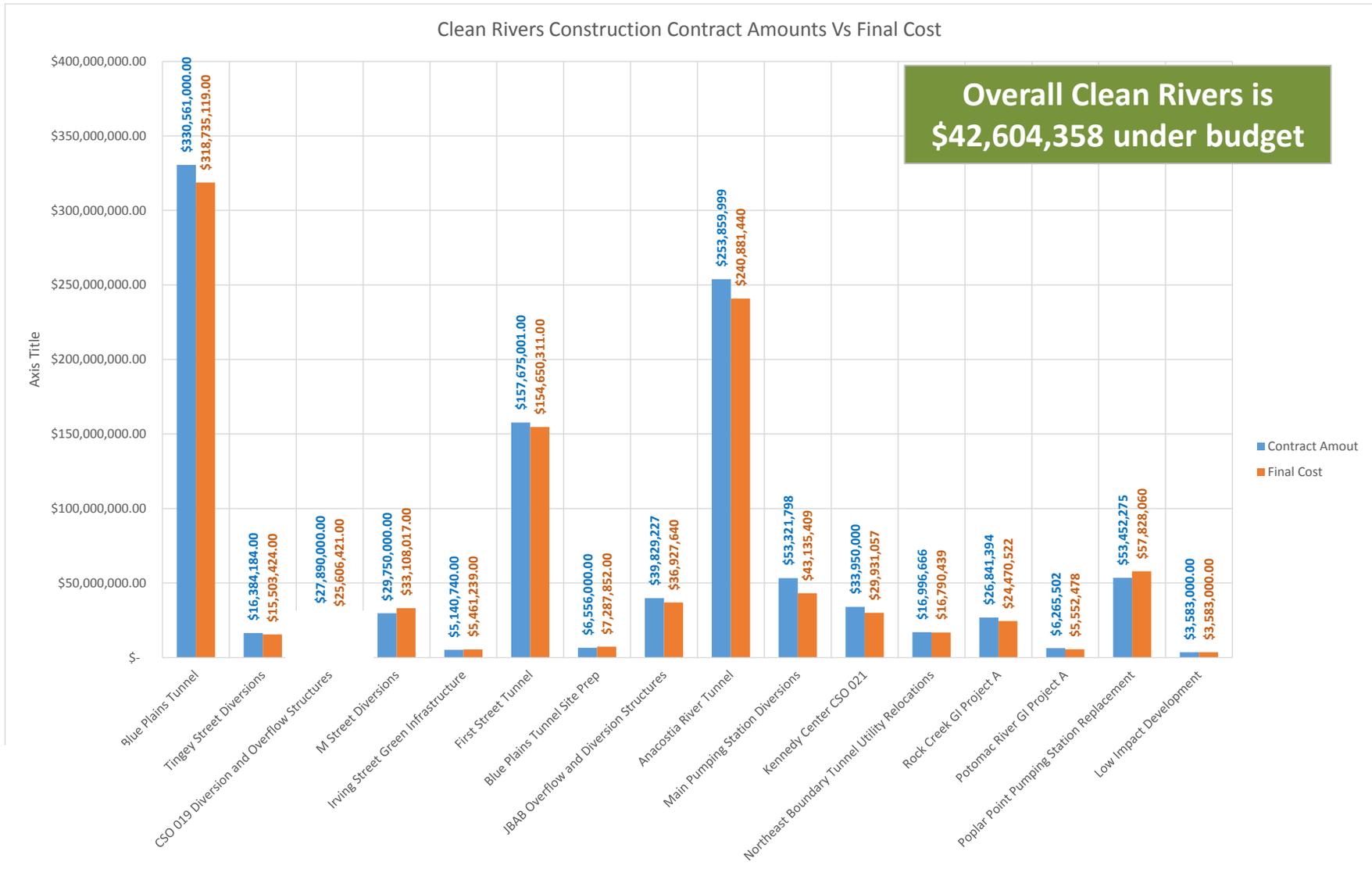
- ✓ Contract No. 200060 – Anchor Construction Corporation
  - Contract awarded February 1, 2021, in the amount of \$1,599,454.00
  - First year purchase order executed in the amount of \$533,151.33 for the period February 1, 2021, through September 30, 2021
  - Maintenance activities are underway
- ✓ Contract No. 200070 – National Service Contractors, Inc (NSC)
  - Contract awarded February 1, 2021, in the amount of \$2,188,090.00
  - First year purchase order executed in the amount of \$729,363.33 for the period February 1, 2021, through September 30, 2021
  - Maintenance activities are underway



# Remaining Work: Schedule



# Clean Rivers Budget for Completed Contracts



# Clean Rivers Disbursements

DCCR finished FY2021 at 96% of its projected spending

## DC Water Clean Rivers Project Expenditure Tracking for FY 2021

