



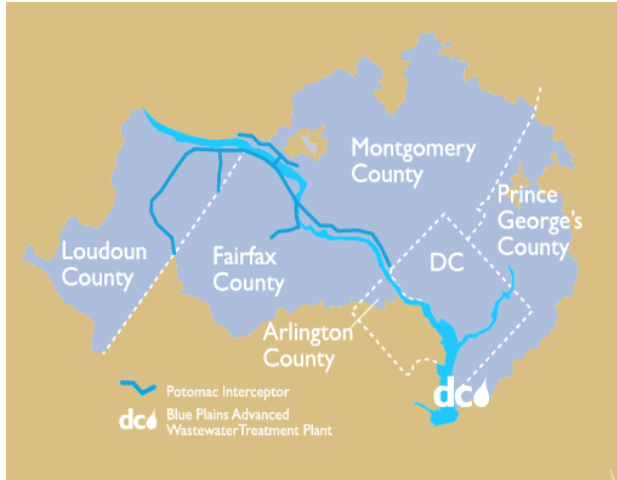
OPERATING BUDGETS



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Section V CAPITAL PROGRAMS

FY 2017 – FY 2026



DC Water Service Area



Blue Plains Advanced Wastewater Treatment Plant



Enhanced Nitrification

OVERVIEW

DC Water’s Capital Improvement Program (CIP) supports the continuation of major capital asset investment in programs and projects that will upgrade the District’s water distribution system, improve the condition of our local waterways and create clean energy. The CIP includes all mandated projects as well as rehabilitation of assets required to meet permit and other regulatory requirements and also all immediate needs necessary to maintain existing service levels.

DC Water presents its CIP on two different bases: 10-year disbursement plan and lifetime budget. Actual cash disbursements are critical to forecasting the anticipated level of rate increases and the amount and timing of capital financing. The 10-year disbursement plan provides a more realistic projection of actual “cash out the door” excluding contingencies but including historical and projected completion rates as well as in-house labor. The CIP review process also includes an extensive review of the total project, or “lifetime” budget, which reflects historical spending prior to, during, and beyond the current 10-year period, although excludes in-house labor. Lifetime budgets represent projects active during the 10-year period and are the primary area of focus in budget development and day-to-day monitoring. In addition to ‘Active’ projects, projects for which all activities have been completed during the previous fiscal year and are listed as ‘Closed’ are also included in the CIP. Closed projects are dropped from the CIP in the next fiscal year.

Detailed information on the projects can be found online at www.dewater.com

CIP DEVELOPMENT AND APPROVAL PROCESS

DC Water’s capital budget review process begins each year in the spring. This process includes a review of major accomplishments, priorities, status of major projects, and emerging regulatory and related issues impacting the capital program by the Department of Engineering & Technical Services. Projections of changes in project lifetime budgets are also included. The review process involves the DC Water departments with responsibility for managing the operations of DC Water services and capital projects as well as staff from Finance, Accounting and Budget and Executive Management. The CIP is integrated into DC Water’s 10-year financial plan; and is the primary driver of DC Water’s projected rate increases over the current 10-year planning period.

This review process spans over several months and culminates with the presentation of the updated CIP to DC Water’s Board of Directors’ Environmental Quality and Sewerage Services, Water Quality and Water Services, Finance and Budget and DC Retail Water and Sewer Rates Committees in November 2016. The operating budgets, capital improvement program, and 10-year financial plan was forwarded to the full Board for consideration and action in December.

After adoption by the Board of Directors, DC Water is required to submit its annual operating and capital budget to the Mayor and the District of Columbia Council for review and comment. However, neither has the power to change DC Water’s annual budgets. The District of Columbia includes DC Water’s budgets in their submission to Congress.

CAPITAL AUTHORITY REQUEST

Capital authority represents the amount of Congressionally-authorized funding that DC Water can use to administer its capital program. Sufficient authority is required to be in place prior to contracts being executed. Actual commitments within the eight service areas may vary up or down for a particular year. However, they are “not to exceed the total” FY 2018 – FY 2026 capital authority request in the amount of \$3.24 billion.

It should be noted that the execution of any contract requires the approval of General Manager, as Contracting Officer, or his delegee. Major projects and contracts valued at \$1 million or more require DC Water Board approval.

CAPITALIZATION POLICY

DC Water’s capitalization policy determines how expenditures will be recognized and accounted. DC Water matches the financing of an asset to the projected useful life of an item, the policy also determines how projects will be financed.

Definition:

- Capital Project – has an average life of 30 years and is financed with long term debt.
- Capital Equipment – has a life of at least 3 years, individual component cost of \$5,000 or more, and is financed with short-term debt or cash.

The following guidelines are used to categorize items as either capital equipment or an operating expense:

| Expenditure Activity | Description | Accounting Treatment |
|-----------------------------|---|-----------------------------|
| Enhancement | Replacement of an asset, or addition/replacement of a sub-component of an asset, to improve the “attributes” of the asset. | Capitalize |
| Refurbishment | Expenditure on an asset that creates a material extension to the Estimated Operating Life (EOL) of the asset. It does not improve its attributes. This is distinct from maintenance work, which is carried out to ensure that an asset is able to perform its designated function for its normal EOL. | Capitalize |
| Replacement | Expenditure to replace substantially all of an asset. | Capitalize |
| Repair/Maintenance | Routine expense that neither extends the life of the asset nor increase its functionality. | Expense |

Capital Improvement Program

FY 2017 – FY 2026 (10-Year) Disbursement Plan – projected annual cash disbursements; Lifetime Budget – total lifetime budget for projects active during 10-year period, \$ in thousands

| | FY 2017 - FY 2026 Disbursement Plan | | | | | | | | | | 10-Yr Total | Lifetime Budget |
|--------------------------------------|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------------|
| | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | | |
| NON PROCESS FACILITIES | | | | | | | | | | | | |
| Facility Land Use | \$34,150 | \$20,030 | \$17,555 | \$10,306 | \$1,800 | \$1,605 | \$40 | \$0 | \$0 | \$0 | \$85,486 | \$139,789 |
| Subtotal | 34,150 | 20,030 | 17,555 | 10,306 | 1,800 | 1,605 | 40 | 0 | 0 | 0 | 85,486 | 139,789 |
| WASTEWATER TREATMENT | | | | | | | | | | | | |
| Liquid Processing | 16,152 | 24,883 | 52,941 | 43,931 | 24,215 | 34,226 | 39,622 | 49,838 | 45,391 | 45,980 | 377,180 | 1,275,084 |
| Plantwide | 11,313 | 14,562 | 17,562 | 32,116 | 22,815 | 26,977 | 29,470 | 18,351 | 22,831 | 13,761 | 209,758 | 477,349 |
| Solids Processing | 7,654 | 4,836 | 15,305 | 15,927 | 14,254 | 7,396 | 1,489 | 943 | 513 | 343 | 68,660 | 764,689 |
| Enhanced Nitrogen Removal Facilities | 88,670 | 54,141 | 5,533 | 4,010 | 983 | 7 | 1,300 | 916 | 11,101 | 22,446 | 189,107 | 1,034,493 |
| Subtotal | 123,789 | 98,423 | 91,341 | 95,985 | 62,266 | 68,605 | 71,882 | 70,049 | 79,836 | 82,530 | 844,706 | 3,551,615 |
| COMBINED SEWER OVERFLOW | | | | | | | | | | | | |
| DC Clean Rivers | 171,300 | 116,713 | 115,974 | 148,210 | 175,492 | 115,822 | 95,920 | 73,621 | 63,527 | 145,743 | 1,222,320 | 2,764,014 |
| Program Management | 3,827 | 5,355 | 3,943 | 1,376 | 2,760 | 4,098 | 4,409 | 3,019 | 1,829 | 0 | 30,615 | 64,563 |
| Combined Sewer | 9,260 | 8,407 | 8,239 | 16,901 | 8,349 | 6,010 | 8,105 | 10,262 | 5,210 | 6,468 | 87,211 | 324,451 |
| Subtotal | 184,387 | 130,475 | 128,156 | 166,486 | 186,601 | 125,929 | 108,433 | 86,902 | 70,566 | 152,211 | 1,340,146 | 3,153,028 |
| STORMWATER | | | | | | | | | | | | |
| Local Drainage | 172 | 8 | 76 | 353 | 69 | 642 | 272 | 864 | 1,055 | 222 | 3,733 | 15,736 |
| On-Going | 424 | 572 | 644 | 599 | 618 | 760 | 734 | 762 | 466 | 534 | 6,113 | 12,408 |
| Pumping Facilities | 368 | 1,743 | 2,068 | 72 | 1,136 | 4,155 | 20 | 0 | 0 | 308 | 9,869 | 25,000 |
| DDOT | 16 | 19 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 3,237 |
| Research and Program Management | 270 | 238 | 182 | 64 | 123 | 179 | 207 | 163 | 129 | 0 | 1,554 | 12,013 |
| Trunk/Force Sewers | 456 | 102 | 1,070 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 1,737 | 15,597 |
| Subtotal | 1,706 | 2,682 | 4,053 | 1,196 | 1,946 | 5,736 | 1,233 | 1,789 | 1,649 | 1,064 | 23,055 | 83,991 |
| SANITARY SEWER | | | | | | | | | | | | |
| Collection Sewers | 4,890 | 2,249 | 2,057 | 8,042 | 7,304 | 11,799 | 6,962 | 6,531 | 22,763 | 32,239 | 104,837 | 332,601 |
| On-Going | 11,838 | 11,645 | 10,896 | 9,630 | 10,411 | 10,204 | 10,704 | 11,107 | 11,455 | 6,210 | 104,100 | 194,633 |
| Pumping Facilities | 2,806 | 290 | 1,793 | 2,389 | 1,588 | 140 | 209 | 0 | 0 | 0 | 9,214 | 36,759 |
| Program Management | 8,755 | 11,917 | 9,184 | 4,738 | 4,902 | 6,915 | 7,227 | 6,640 | 5,228 | 1,810 | 67,316 | 135,791 |
| Interceptor/Trunk Force Sewers | 10,013 | 13,194 | 29,068 | 32,942 | 30,499 | 30,419 | 29,346 | 28,956 | 13,307 | 10,304 | 228,049 | 748,806 |
| Subtotal | 38,302 | 39,294 | 52,999 | 57,741 | 54,704 | 59,479 | 54,447 | 53,235 | 52,753 | 50,563 | 513,517 | 1,448,589 |
| WATER | | | | | | | | | | | | |
| Distribution Systems | 30,148 | 28,847 | 40,047 | 32,416 | 28,660 | 36,427 | 44,699 | 52,312 | 58,953 | 59,424 | 411,932 | 1,116,878 |
| Lead Program | 1,050 | 720 | 1,345 | 1,820 | 2,063 | 2,321 | 2,537 | 2,536 | 2,964 | 1,112 | 18,468 | 208,940 |
| On-Going | 10,643 | 6,886 | 7,521 | 6,944 | 7,235 | 7,275 | 7,366 | 7,735 | 8,007 | 9,336 | 78,948 | 147,604 |
| Pumping Facilities | 2,598 | 1,958 | 3,395 | 7,761 | 3,173 | 664 | 1,627 | 7,579 | 1,365 | 0 | 30,120 | 177,881 |
| DDOT | 830 | 516 | 188 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,534 | 33,933 |
| Storage Facilities | 7,728 | 8,072 | 6,612 | 4,361 | 1,382 | 1,685 | 5,188 | 9,395 | 2,354 | 0 | 46,779 | 106,364 |
| Program Management | 5,823 | 4,739 | 5,040 | 3,801 | 6,021 | 6,286 | 4,095 | 4,186 | 4,572 | 7,043 | 51,606 | 101,203 |
| Subtotal | 58,819 | 51,738 | 64,149 | 57,102 | 48,534 | 54,658 | 65,512 | 83,744 | 78,217 | 76,915 | 639,387 | 1,892,803 |
| CAPITAL PROJECTS | | | | | | | | | | | | |
| | 441,153 | 342,642 | 358,253 | 388,816 | 355,852 | 316,013 | 301,546 | 295,719 | 283,021 | 363,283 | 3,446,297 | 10,269,817 |
| CAPITAL EQUIPMENT | | | | | | | | | | | | |
| | 54,949 | 32,897 | 26,043 | 26,551 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 193,119 | 193,119 |
| WASHINGTON AQUEDUCT | | | | | | | | | | | | |
| | 10,896 | 11,768 | 10,547 | 11,840 | 13,911 | 10,932 | 11,041 | 10,969 | 10,787 | 9,516 | 112,207 | 112,207 |
| ADDITIONAL CAPITAL PROGRAMS | | | | | | | | | | | | |
| | 65,845 | 44,665 | 36,590 | 38,391 | 22,690 | 19,712 | 19,821 | 19,748 | 19,567 | 18,296 | 305,326 | 305,326 |
| LABOR | | | | | | | | | | | | |
| | | | | | | | | | | | | 374,276 |
| TOTAL CAPITAL BUDGETS | | | | | | | | | | | | |
| | \$506,998 | \$387,306 | \$394,843 | \$427,208 | \$378,542 | \$335,725 | \$321,367 | \$315,467 | \$302,588 | \$381,579 | \$3,751,623 | \$10,949,419 |



New Headquarters Building (HQO)



Green Roof in New Headquarters Building

| FY 2017 - FY 2026 Disbursement Plan | | | | | | | | | | | Lifetime Budget |
|-------------------------------------|----------|----------|----------|---------|---------|---------|---------|---------|---------|-------------|--------------------------|
| FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | |
| \$34,150 | \$20,030 | \$17,555 | \$10,306 | \$1,800 | \$1,605 | \$40 | \$0 | \$0 | \$0 | \$85,486 | \$139,789 |
| | | | | | | | | | | | <i>(\$ in thousands)</i> |

OVERVIEW

The Non-Process Facilities Service Area accommodates projects approved under the Non-Process Facilities Master Plan (NPFMP) and related improvements necessary to support DC Water activities and critical operations. The goals of this CIP are the same as those in the NPFMP, which are designed to:

- Optimize efficient use of existing DC Water land and facilities.
- Introduce state-of-the-art material management technologies that will enhance inventory security, inventory storage and distribution, transportation, and reduce duplication and inefficiencies of human resources.
- Implement Green Strategies and Sustainable Design within DC Water infrastructure and facility planning.
- Maximize flexibility throughout DC Water facilities for future treatment needs, distribution system operations, and innovative opportunities.

PROGRAM AREA

Facility Land Use – The primary objective of this service area is to implement the NPFMP. Projects that generally improve DC Water’s operations but do not per se represent a core process area within DC Water’s mission continue to be evaluated and reallocated as needed, into this category. Included in this program are:

- **New Headquarters Building (HQO)** – The DC Water Administrative Headquarters Building, located next to the historic Main Pumping Station, will be DC Water’s most sustainable construction project ever. The Headquarters will anchor DC Water’s new publicly-accessible campus along the Anacostia River. Currently, DC Water’s administrative offices are spread across the District of Columbia in multiple facilities, including leased space. By relocating nonessential personnel off of the Blue Plains industrial campus, DC Water will preserve what little remaining space exists – an irreplaceable commodity – for future process improvements if required by permit or desired for innovation.
- **Floatable Debris Dock Replacement** – This project was reallocated from the Combined Sewer Overflow Service Area, as there was an opportunity to blend the dock work with related facility and security improvements needed for staff and equipment. The existing docks are more than 25 years old and need to be replaced. The replacement slips (at least five) and associated new piles will allow flexibility and maneuverability of the boats, overcome the existing draft challenges of the river bottom, and most importantly, create safe conditions for the staff and their operations. Future improvements include the installation of a new boat ramp and updated fencing and lighting to further improve the efficiencies of skimmer boat operations.
- **Main & O Redevelopment Efforts** – This project relocates sewer and fleet operations from the Main & O Campus in order to accommodate the redevelopment plans for the District of Columbia in and around the Navy Yard. All cost associated with the acquisition of new land and construction of new facilities will be reimbursed to DC Water by the District of Columbia.

ACCOMPLISHMENTS

- DC Water successfully negotiated the Guaranteed Maximum Price (GMP) for the New Headquarters Building (HQO). The Board approved the construction contract with Skanska/Smith Group.

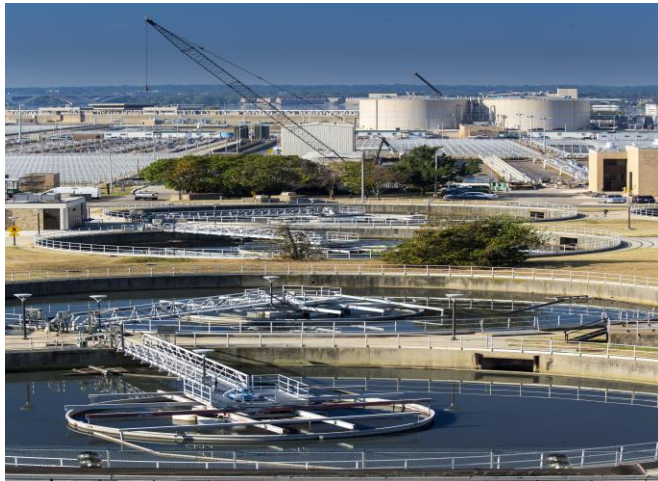
OPERATIONAL IMPACT OF MAJOR CAPITAL INVESTMENTS

New Headquarters Building (HQO) – This facility will anchor DC Water’s new publicly-accessible campus along the Anacostia River. By relocating nonessential personnel from the Blue Plains campus, the Authority will preserve all valuable remaining space at Blue Plains AWWTP for future process improvements. This new building will be LEED® Platinum Class A certified, and incorporate environmentally sustainable features that will be used to capture rainfall onsite for irrigation and non-potable water needs inside the facility. Additionally, alternative energy will be supplied by an innovative sewer heat recovery system that will lower operating cost. This project is anticipated to avoid renovation and expansion, including construction of a parking garage, at Blue Plains AWWTP.

Non Process Facilities

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| FACILITY LAND USE | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|---|--|---------|--------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|-------------|------------|------------|------------|-----------------|------------------|------------|
| HC | New Warehouse/Visitor/Security Facility | FY 2010 | Closed | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$18,374 | FY 2016 |
| DS | New Headquarters Building (HQO) | FY 2009 | Active | 32,697 | 16,838 | 586 | 549 | 136 | 0 | 0 | 0 | 0 | 0 | 50,806 | 76,100 | FY 2021 |
| DU | Water System Laboratory Facilities | FY 2007 | Active | 86 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 166 | 647 | FY 2018 |
| HE | Bryant Street Pump Station Building Mods | FY 2018 | Active | 0 | 831 | 1,376 | 7,865 | 1,048 | 0 | 0 | 0 | 0 | 0 | 11,119 | 14,370 | FY 2021 |
| HF | Fort Reno Pump Station - Field Ops Facility West | FY 2020 | Active | 0 | 0 | 0 | 187 | 571 | 1,585 | 26 | 0 | 0 | 0 | 2,369 | 3,150 | FY 2023 |
| HH | Main & O Redev. Efforts (FKA New Fleet Facility) | FY 2015 | Active | 426 | 1,143 | 6,296 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,864 | 11,500 | FY 2019 |
| HJ | COF Renovations | FY 2017 | Active | 746 | 712 | 8,109 | 1,140 | 0 | 0 | 0 | 0 | 0 | 0 | 10,706 | 12,904 | FY 2020 |
| HK | CMF Renovations and Consolidation | FY 2017 | Active | 19 | 20 | 936 | 565 | 46 | 20 | 15 | 0 | 0 | 0 | 1,620 | 1,750 | FY 2023 |
| NZ | Floatable Debris Dock Replacement | FY 2017 | Active | 176 | 406 | 254 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 836 | 995 | FY 2019 |
| TOTAL FACILITY LAND USE BUDGETS | | | | \$34,150 | \$20,030 | \$17,555 | \$10,306 | \$1,800 | \$1,605 | \$40 | \$0 | \$0 | \$0 | \$85,486 | \$139,789 | |
| TOTAL NON PROCESS FACILITIES BUDGETS | | | | \$34,150 | \$20,030 | \$17,555 | \$10,306 | \$1,800 | \$1,605 | \$40 | \$0 | \$0 | \$0 | \$85,486 | \$139,789 | |



Blue Plains Advanced Wastewater Treatment Plant



Secondary Sedimentation



Nitrification Reactors

| FY 2017 - FY 2026 Disbursement Plan | | | | | | | | | | Lifetime Budget | |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------------|-------------|
| FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | |
| \$123,789 | \$98,423 | \$91,341 | \$95,985 | \$62,266 | \$68,605 | \$71,882 | \$70,049 | \$79,836 | \$82,530 | \$844,706 | \$3,551,615 |

(\$ in thousands)

OVERVIEW

Capital projects in the Wastewater Treatment Service Area are required to rehabilitate, upgrade or provide new facilities at Blue Plains to ensure that it can reliably meet its National Pollutant Discharge Elimination System (NPDES) permit requirements and produce a consistent, high-quality dewatered solids product. DC Water’s current NPDES permit is effective from September 30, 2010 through September 30, 2015, and remains in effect while a new permit for the next five years is negotiated. This permit requires wastewater treatment to a level that meets one of the most stringent NPDES discharge permits in the United States. The Blue Plains Enhanced Nitrogen Removal Facilities Program, which provides for projects necessary to meet the stringent total nitrogen discharge limit in the NPDES permit, comprise a significant portion of the projects within the Wastewater Treatment Service Area.

PROGRAM AREAS

Liquid Processing – Projects in this program area encompass upgrading and rehabilitating facilities involved in handling flows from the sanitary and combined sewer systems. These flows progress sequentially through the Plant processes and ultimately discharge the treated effluents into the Potomac River.

Plantwide – This program provides for upgrading, rehabilitating, or installing support systems and facilities that are required for both the liquid processing and solids processing programs.

Solids Processing – Biosolids processing involves reductions in volume along with treatment to meet applicable federal, state and local requirements for the ultimate disposal method. Treatment is provided by a system of processing facilities that include gravity thickening of primary sludge, floatation thickening of the biological waste sludge produced by the secondary and nitrification/denitrification processes, dewatering by centrifuge and lime stabilization.

Enhanced Nitrogen Removal Facilities – Provides for new facilities and upgrades to existing facilities needed at Blue Plains to meet the total nitrogen discharge limit assigned to DC Water. The necessary facilities have been completed and are in service. DC Water is fully compliant in meeting the reduced total nitrogen discharge limit, effective January 1, 2015.

ACCOMPLISHMENTS

- Enhanced Nitrogen Removal Facility – The project provided limit of technology treatment for nitrogen removal they have been substantially completed. The total annual nitrogen discharge from Blue Plains is below the stringent NPDES permit limit and monthly concentrations have been consistently low since the new facilities went on-line.
- Enhanced Nitrogen Removal Facility North – This project improved the performance of the secondary treatment facilities by providing limited nitrogen removal and more consistent quality for the downstream denitrification processes. Construction was 90 percent complete as of September 2016.
- Filtrate Treatment Facility – This side-stream treatment project will utilize anammox bacteria to remove nitrogen from the filtrate, from the belt filter press facility resulting in savings in electrical power and methanol addition, which are otherwise necessary when the filtrate is processed through the plant.
- Tunnel Dewatering Pumping Station (TDPS) – The project being designed and built in conjunction with the Enhanced Clarification Facility (ECF) will pump out the Blue Plains Tunnel at a rate up to 225 MGD for processing through ECF or the Blue Plains plant mainstream as required by permit. The design-build contract is 39 percent complete as of September 2016 and is scheduled to be operational by March 23, 2018, along with ECF.
- Enhanced Clarification Facility – The project provides facilities to treat up to 225 MGD of flow from the station in excess of the capacity of the Blue Plains mainstream flow. The design-build contract is 39 percent complete as of September 2016 and is scheduled to be operational by March 23, 2018 along with the pumping station (TDPS).
- Raw Wastewater Pumping Station 2 – The pumping station delivers wastewater from the wastewater collection system to the east preliminary treatment processes at Blue Plains. This project updates aging electrical equipment, both replacing equipment that is beyond its useful life and relocating sensitive electronic equipment to a less corrosive environment to reduce the rate of deterioration of the equipment. The construction contract was issued in September 2016 and is scheduled to be complete by May 2019.

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

Biosolids Management Program – The Walter F. Bailey Bioenergy Facility, which is now operational, significantly reduces DC Water’s carbon footprint. The innovative CAMBI® thermal hydrolysis process uses intense heat and pressure to treat wastewater solids producing a much cleaner biosolid and onsite generation of up to one third of Blue Plains’ electricity needs. This process has resulted in operational efficiencies in electricity, biosolids hauling and chemicals costs.

Tunnel De-watering Pumping Station (TDPS) / Enhanced Clarification Facility (ECF) – This facility will de-water the new tunnels being constructed by the DC Clean Rivers program. It will evacuate the stormwater gathered by tunnels. The TDPS will deliver the stormwater to the ECF, for treatment anticipated to be completed by the end of FY 2018.

Filtrate Treatment Facility (FTF) – Also known as Centrate Treatment Facility, FTF is part of the Total Nitrogen Removal Wet Weather plan. The project assists in nitrogen removal from the water processed. This new facility uses six sequencing batch reactors to treat a nitrogen-rich stream from the Final Dewatering Facility’s belt filter presses. The de-ammonification process represents a major breakthrough in nitrogen removal, which lowers the use of methanol. It also has approximately 60 percent lower energy demand than the mainstream treatment and lowers greenhouse gas (GHG) emissions.

Wastewater Treatment

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| LIQUID PROCESSING | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|--|--|---------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------|------------|
| TO | Secondary Treatment Fac | FY 1998 | Closed | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$70,303 | FY 2016 |
| A2 | Liquid Processing Program Management | FY 2001 | Active | 2,768 | 1,962 | 1,265 | 1,808 | 2,254 | 1,938 | 4,014 | 5,605 | 4,960 | 3,120 | 29,693 | 49,579 | FY 2027 |
| BG | Dual Purpose Rehabilitation | FY 2009 | Active | 2,942 | 494 | 1,714 | 675 | 0 | 0 | 0 | 0 | 0 | 0 | 5,826 | 32,208 | FY 2020 |
| BP | Grit Chamber Facilities Ph II | FY 2017 | Active | 26 | 79 | 106 | 55 | 29 | 0 | 0 | 0 | 0 | 0 | 295 | 397 | FY 2021 |
| BQ | Primary Treatment Facilities Ph II | FY 2017 | Active | 185 | 1,742 | 2,306 | 12,893 | 7,159 | 604 | 2,514 | 571 | 0 | 0 | 27,974 | 39,036 | FY 2024 |
| BR | Nitrification/Denitrification Fac | FY 2006 | Active | 1,986 | 2,256 | 1,781 | 643 | 1,014 | 685 | 247 | 0 | 0 | 0 | 8,613 | 53,693 | FY 2023 |
| BT | Filtration/Disinfection Fac Ph II | FY 2008 | Active | 323 | 251 | 109 | 488 | 1,719 | 362 | 0 | 0 | 0 | 0 | 3,253 | 24,967 | FY 2022 |
| BV | RVWWS No. 2 Upgrades | FY 2013 | Active | 5,353 | 7,539 | 2,965 | 202 | 3 | 0 | 0 | 0 | 0 | 0 | 16,063 | 42,696 | FY 2021 |
| DA | DWT Research / Pilot Projects | FY 2006 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,114 | FY 2017 |
| IX | Headworks Hvac Rehab | FY 2013 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 518 | FY 2021 |
| IY | Effluent Filter Upgrade | FY 2017 | Active | 517 | 1,700 | 11,075 | 4,067 | 2,585 | 8,594 | 4,673 | 5,016 | 4,883 | 10,474 | 53,584 | 152,204 | FY 2030 |
| IZ | Replace/Upgrade Influent Screens | FY 2016 | Active | 527 | 5,937 | 4,051 | 578 | 566 | 156 | 1,441 | 2,016 | 2,220 | 8,476 | 25,968 | 82,148 | FY 2032 |
| J2 | Replace/Upgrade Primary Treatment Mech. | FY 2017 | Active | 26 | 83 | 7,647 | 316 | 317 | 858 | 493 | 158 | 0 | 0 | 9,899 | 18,750 | FY 2031 |
| J6 | Deammonification Project | FY 2013 | Active | 0 | 0 | 18 | 211 | 1,176 | 1,190 | 235 | 34 | 0 | 0 | 2,864 | 3,493 | FY 2024 |
| LC | Effluent Disinfection Upgrades | FY 2026 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 8,011 | FY 2033 |
| OZ | Grit Chambers I&2 Upgrades | FY 2017 | Active | 269 | 828 | 2,761 | 6,845 | 1,824 | 0 | 0 | 0 | 0 | 0 | 12,528 | 18,500 | FY 2021 |
| PD | Secondary East & West Upgrades | FY 2016 | Active | 242 | 467 | 89 | 0 | 203 | 2,679 | 4,094 | 1,181 | 0 | 0 | 8,955 | 10,200 | FY 2024 |
| PE | Nitrification Reactor/Sediment Upgrades | FY 2017 | Active | 25 | 374 | 2,112 | 644 | 2,166 | 2,572 | 0 | 0 | 0 | 0 | 7,892 | 10,950 | FY 2022 |
| TF | Grit Chamber Bldg I&2 | FY 1996 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 71,046 | FY 2017 |
| UC | Filtration/Disinfection Fac | FY 2000 | Active | 837 | 428 | 12,212 | 13,424 | 678 | 43 | 0 | 0 | 0 | 0 | 27,621 | 101,815 | FY 2022 |
| UD | Raw Water Pump Stations I&2 | FY 1999 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15,838 | FY 2017 |
| B6 | Primary Sedimentation Tank Covers | FY 2018 | New | 0 | 441 | 766 | 110 | 6 | 1,865 | 1,819 | 14,542 | 16,535 | 675 | 36,759 | 43,598 | FY 2027 |
| B7 | Primary Sedimentation Tank Odor Scrubbers | FY 2024 | New | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 689 | 106 | 1,795 | 2,589 | 45,870 | FY 2032 |
| BC | Headworks Influent Structures | FY 2017 | New | 127 | 304 | 1,964 | 970 | 0 | 0 | 0 | 0 | 0 | 0 | 3,364 | 5,050 | FY 2020 |
| I4 | Grit Removal Facilities - 20 Year Rebuild | FY 2026 | New | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,997 | 1,997 | 52,500 | FY 2031 |
| I5 | Raw Water Pump Stations I&2 - 20 Year Rebuild | FY 2021 | New | 0 | 0 | 0 | 0 | 1,426 | 5,916 | 5,957 | 6,002 | 6,032 | 967 | 26,301 | 29,000 | FY 2026 |
| I7 | Primary Treatment - 20 Year Rebuild | FY 2021 | New | 0 | 0 | 0 | 0 | 1,088 | 6,763 | 14,135 | 14,018 | 6,615 | 4,481 | 47,100 | 54,600 | FY 2026 |
| JC | Secondary East And West - 20 Year Rebuild | FY 2025 | New | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 514 | 5,588 | 6,103 | 96,000 | FY 2032 |
| LF | Nitrification Reactor/Sediment - 20 Year Rebuild | FY 2024 | New | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3,526 | 8,405 | 11,938 | 138,000 | FY 2033 |
| TOTAL LIQUID PROCESSING BUDGETS | | | | \$16,152 | \$24,883 | \$52,941 | \$43,931 | \$24,215 | \$34,226 | \$39,622 | \$49,838 | \$45,391 | \$45,980 | \$377,180 | \$1,275,084 | |

Wastewater Treatment

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| PLANTWIDE | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|-----------|--|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|----------|------------|
| DP | Chemical Building Enhancements | FY 2008 | Closed | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,591 | FY 2016 |
| AL | Plantwide Project Program Management | FY 2001 | Active | 1,782 | 1,942 | 767 | 7,134 | 3,565 | 2,312 | 2,178 | 2,194 | 2,205 | 1,387 | 25,464 | 43,552 | FY 2027 |
| AZ | COF Renovations | FY 2002 | Active | 191 | 194 | 214 | 244 | 99 | 0 | 0 | 0 | 0 | 0 | 943 | 17,690 | FY 2021 |
| BY | Additional Chemical Systems Ph III | FY 2021 | Active | 0 | 0 | 0 | 0 | 100 | 399 | 795 | 856 | 517 | 404 | 3,071 | 3,822 | FY 2026 |
| CH | Misc Facility Projects | FY 2004 | Active | 60 | 37 | 41 | 47 | 19 | 0 | 0 | 0 | 0 | 0 | 203 | 8,037 | FY 2021 |
| CV | Laboratory Upgrades | FY 2006 | Active | 1 | 2 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 8,510 | FY 2021 |
| CW | Security At Blue Plains | FY 2005 | Active | 399 | 1,411 | 402 | 458 | 232 | 0 | 0 | 0 | 0 | 0 | 2,903 | 6,117 | FY 2021 |
| DQ | Non-OEM PLC Interfaces/Replacements | FY 2009 | Active | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 2,133 | FY 2017 |
| EI | Plantwide Painting of Steel Pipes | FY 2012 | Active | 0 | 0 | 0 | 0 | 1,357 | 1,462 | 1,472 | 20 | 0 | 0 | 4,311 | 4,960 | FY 2024 |
| EN | WWTP - Central Fire Alarm System | FY 2008 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,092 | FY 2017 |
| GP | I & C & Elec - EPMC | FY 2009 | Active | 983 | 1,033 | 409 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,425 | 7,226 | FY 2019 |
| GW | Control Systems Replacement | FY 2021 | Active | 0 | 0 | 0 | 0 | 763 | 654 | 814 | 3,715 | 10,097 | 9,032 | 25,075 | 37,000 | FY 2028 |
| HL | DWT - Process and Operations Jobs | FY 2011 | Active | 446 | 528 | 683 | 271 | 1,111 | 0 | 0 | 0 | 0 | 0 | 3,038 | 7,106 | FY 2021 |
| HU | Blue Plains Logistics | FY 2011 | Active | 411 | 45 | 61 | 34 | 18 | 0 | 0 | 0 | 0 | 0 | 568 | 6,942 | FY 2021 |
| IC | Electrical Monitoring Systems | FY 2015 | Active | 0 | 256 | 1,561 | 2,433 | 154 | 0 | 0 | 0 | 0 | 0 | 4,404 | 7,250 | FY 2021 |
| IV | Blue Plains IT Backbone FOC Tubes | FY 2016 | Active | 977 | 652 | 343 | 1,555 | 0 | 0 | 0 | 0 | 0 | 0 | 3,527 | 5,475 | FY 2020 |
| JF | Construction of Flood Seawall | FY 2018 | Active | 0 | 59 | 0 | 0 | 0 | 244 | 975 | 3,489 | 5,633 | 866 | 11,267 | 13,234 | FY 2028 |
| JY | IT - Data Center | FY 2010 | Active | 13 | 3 | 4 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 26 | 2,397 | FY 2021 |
| LP | Wastewater Asset Mngmt Tech Support | FY 2013 | Active | 1,386 | 1,055 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,441 | 10,000 | FY 2018 |
| LS | Misc. Facilities Projects FY2013 | FY 2013 | Active | 1,578 | 903 | 667 | 839 | 297 | 0 | 0 | 0 | 0 | 0 | 4,285 | 8,188 | FY 2021 |
| LX | Process Control System Upgrade | FY 2018 | Active | 0 | 233 | 0 | 0 | 1,547 | 1,604 | 2 | 0 | 0 | 0 | 3,386 | 4,000 | FY 2023 |
| OD | Plantwide Paving | FY 2015 | Active | 136 | 138 | 921 | 954 | 768 | 751 | 757 | 762 | 766 | 182 | 6,136 | 7,990 | FY 2026 |
| OE | Plantwide Drainage & Runoff | FY 2016 | Active | 404 | 1,255 | 1,218 | 584 | 245 | 225 | 227 | 229 | 230 | 55 | 4,672 | 7,151 | FY 2026 |
| OF | Process & Service Water Rehabilitation | FY 2018 | Active | 0 | 0 | 589 | 1,903 | 497 | 0 | 0 | 0 | 0 | 0 | 2,990 | 3,950 | FY 2021 |
| OG | City Water & Sewer Upgrades at WWTP | FY 2020 | Active | 0 | 0 | 0 | 1 | 535 | 551 | 0 | 0 | 0 | 0 | 1,087 | 1,250 | FY 2022 |
| OH | Plantwide Demolition | FY 2021 | Active | 0 | 0 | 0 | 0 | 2,418 | 4,821 | 2,016 | 599 | 0 | 0 | 9,854 | 11,100 | FY 2024 |
| OI | Plantwide Painting & Signage | FY 2022 | Active | 0 | 0 | 0 | 0 | 0 | 104 | 258 | 46 | 0 | 0 | 409 | 450 | FY 2024 |
| OK | Plantwide H2S Mitigation | FY 2021 | Active | 0 | 0 | 0 | 0 | 1 | 327 | 840 | 1,514 | 1,977 | 1,536 | 6,195 | 10,000 | FY 2029 |
| OM | Plantwide Hot Water System/ Loop Rehab | FY 2017 | Active | 24 | 386 | 1,212 | 832 | 467 | 728 | 1,111 | 563 | 189 | 0 | 5,512 | 7,650 | FY 2025 |
| ON | Plantwide Grounding Upgrades | FY 2018 | Active | 0 | 61 | 243 | 768 | 905 | 1,615 | 899 | 12 | 0 | 0 | 4,502 | 5,500 | FY 2024 |
| OP | Plantwide Sump Pump Rehabilitation | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 317 | 299 | 721 | 1,000 | FY 2028 |
| OQ | Plantwide Roofing Upgrades | FY 2020 | Active | 0 | 0 | 0 | 0 | 1,160 | 2,760 | 2,767 | 1,483 | 819 | 0 | 8,989 | 10,000 | FY 2025 |
| OS | Plantwide Lighting Upgrades | FY 2017 | Active | 0 | 291 | 944 | 649 | 266 | 0 | 0 | 0 | 0 | 0 | 2,151 | 3,000 | FY 2021 |

Wastewater Treatment

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| PLANTWIDE, CONT. | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|--|--|---------|--------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------|------------|
| PF | Chemical System/Building Upgrades | FY 2015 | Active | \$1,380 | \$1,374 | \$2,388 | \$4,283 | \$3,649 | \$1,643 | \$46 | \$0 | \$0 | \$0 | \$14,763 | \$22,500 | FY 2023 |
| TA | Process Computer Control System | FY 1997 | Active | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 65,281 | FY 2017 |
| TZ | Elec Power System - Switch Gear | FY 2001 | Active | 674 | 1,148 | 3,524 | 7,601 | 1,573 | 5,955 | 13,645 | 2,433 | 0 | 0 | 36,554 | 59,399 | FY 2024 |
| YD | Miscellaneous Projects | FY 1999 | Active | 368 | 337 | 1,002 | 1,522 | 1,065 | 820 | 668 | 330 | 83 | 0 | 6,194 | 50,306 | FY 2025 |
| IU | Solar Photovoltaic System | FY 2017 | New | 1 | 1,218 | 366 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,585 | 2,500 | FY 2019 |
| TOTAL PLANTWIDE BUDGETS | | | | \$11,313 | \$14,562 | \$17,562 | \$32,116 | \$22,815 | \$26,977 | \$29,470 | \$18,351 | \$22,831 | \$13,761 | \$209,758 | \$477,349 | |
| SOLIDS PROCESSING | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
| AM | Solids Processing Program Management | FY 2001 | Active | \$573 | \$509 | \$328 | \$884 | \$1,399 | \$952 | \$320 | \$496 | \$513 | \$343 | \$6,316 | \$16,063 | FY 2027 |
| BX | Gravity Thickener Upgrades Ph II | FY 2010 | Active | 621 | 2,068 | 8,067 | 10,517 | 5,905 | 1,898 | 0 | 0 | 0 | 0 | 29,075 | 70,840 | FY 2036 |
| EV | Area Substation No. 6 | FY 2008 | Active | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 22,074 | FY 2017 |
| I2 | Biosolids Loadout Crane Rehabilitation | FY 2011 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,596 | FY 2016 |
| I3 | Biosolids Blending Development Center | FY 2015 | Active | 69 | 70 | 77 | 79 | 770 | 391 | 0 | 0 | 0 | 0 | 1,456 | 2,500 | FY 2022 |
| LD | Pre-Dewatering Additional Centrifuges | FY 2019 | Active | 0 | 0 | 421 | 1,111 | 5,086 | 219 | 0 | 0 | 0 | 0 | 6,837 | 10,156 | FY 2022 |
| LE | High Strength Waste Receiving Facility | FY 2020 | Active | 0 | 0 | 0 | 194 | 500 | 2,917 | 432 | 0 | 0 | 0 | 4,043 | 6,008 | FY 2023 |
| XA | New Digestion Facilities | FY 1999 | Active | 6,352 | 627 | 3,766 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,744 | 553,859 | FY 2019 |
| XB | Centrifuge Thickener Facility | FY 1999 | Active | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 48,670 | FY 2017 |
| XZ | Solids Processing Building / DSLF | FY 1999 | Active | 4 | 1,563 | 2,646 | 3,142 | 594 | 1,020 | 738 | 447 | 0 | 0 | 10,154 | 28,690 | FY 2024 |
| YZ | Digestion Facilities Site Preparation | FY 1999 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,234 | FY 2017 |
| TOTAL SOLIDS PROCESSING BUDGETS | | | | \$7,654 | \$4,836 | \$15,305 | \$15,927 | \$14,254 | \$7,396 | \$1,489 | \$943 | \$513 | \$343 | \$68,660 | \$764,689 | |
| ENHANCED NITROGEN REMOVAL | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
| BI | Enhanced Nitrogen Removal North | FY 2008 | Active | \$6,499 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$6,499 | \$75,472 | FY 2017 |
| E8 | Enhanced Clarification Facilities | FY 2009 | Active | 37,369 | 30,196 | 400 | 64 | 33 | 0 | 0 | 0 | 0 | 0 | 68,062 | 216,424 | FY 2021 |
| E9 | Nitrogen Removal Facilities | FY 2008 | Active | 330 | 7 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 343 | 271,457 | FY 2021 |
| EE | Filtrate Treatment Facilities | FY 2009 | Active | 15,862 | 2,667 | 348 | 145 | 1 | 0 | 0 | 0 | 0 | 0 | 19,024 | 106,345 | FY 2021 |
| EG | Blue Plains Tunnel | FY 2008 | Active | 715 | 138 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 854 | 177,380 | FY 2019 |
| FG | Secondary Treatment Upgrades For TN | FY 2013 | Active | 392 | 0 | 0 | 0 | 0 | 7 | 1,300 | 916 | 11,101 | 22,446 | 36,163 | 57,142 | FY 2029 |
| FR | BP Tunnel Dewatering Pumping Sta | FY 2010 | Active | 7,471 | 5,013 | 188 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12,671 | 33,487 | FY 2019 |
| FS | Bolling Overflow & Diversion | FY 2010 | Active | 13,481 | 5,382 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18,862 | 53,405 | FY 2018 |
| LM | ENR Program Management | FY 2013 | Active | 6,552 | 10,738 | 4,592 | 3,799 | 948 | 0 | 0 | 0 | 0 | 0 | 26,629 | 43,381 | FY 2021 |
| TOTAL ENHANCED NITROGEN REMOVAL BUDGETS | | | | \$88,670 | \$54,141 | \$5,533 | \$4,010 | \$983 | \$7 | \$1,300 | \$916 | \$11,101 | \$22,446 | \$189,107 | \$1,034,493 | |
| TOTAL WASTEWATER TREATMENT BUDGETS | | | | \$123,789 | \$98,423 | \$91,341 | \$95,985 | \$62,266 | \$68,605 | \$71,882 | \$70,049 | \$79,836 | \$82,530 | \$844,706 | \$3,551,615 | |



Anacostia River Tunnel Boring Machine, Nannie



First Street Tunnel



Combined Sewer Overflow Outfall

FY 2017 - FY 2026 Disbursement Plan

| FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime Budget |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-------------|-----------------|
| \$184,387 | \$130,475 | \$128,156 | \$166,486 | \$186,601 | \$125,929 | \$108,433 | \$86,902 | \$70,566 | \$152,211 | \$1,340,146 | \$3,153,028 |

(\$ in thousands)

OVERVIEW

Similar to many older communities in the Mid-Atlantic, Northeast, and Midwest portions of the country, a portion of the District of Columbia is served by a combined sewer system. Approximately one-third of the system is combined, mostly in the downtown and older parts of the city. In dry weather, the system delivers wastewater to the Blue Plains Advanced Wastewater Treatment Plant. In wet weather, rain water also enters the system and, if the conveyance capacity of the system is exceeded, the excess flow spills into the waterways of the District of Columbia. This discharge is called combined sewer overflow (CSO). There are 47 active CSO outfalls in the District.

DC Water has continued to implement its CSO Long Term Control Plan (LTCP), called the DC Clean Rivers Project, to reduce CSO's that discharge to the Anacostia and Potomac Rivers, as well as Rock Creek. DC Water obtained an amendment to the CSO Consent Decree in January of 2016 which will allow DC Water to include Green Infrastructure and extend the completion milestone to 2030. When fully implemented, CSO's will be reduced by a projected 96 percent during an average year (98 percent on the Anacostia River) resulting in improved water quality and significantly reduce debris on our national capital's waterways.

PROGRAM AREAS

DC Clean Rivers – The plan includes a variety of improvements throughout the District. The backbone of the plan includes constructing the Anacostia River Tunnel System to control CSO's to the Anacostia River and to relieve surface flooding, a tunnel dewatering pumping station and increased excess flow treatment during wet weather events with system completion in 2025. In addition, the amended plan includes constructing green infrastructure in large scale and a tunnel system to control Potomac River overflows with project completion in 2030. Green infrastructure will also be constructed to control CSOs to Piney Branch/Rock Creek with the first project scheduled to be completed in 2019.

Program Management – The CSO Program Manager provides program management services for DC Clean Rivers activities both at Blue Plains and in all areas in the District. The Program Manager is responsible for evaluation of combined sewer systems, as well as management for tunnel system design, sewer pumping station replacement and other sewer infrastructure projects.

Combined Sewer – Projects within the Combined Sewer Program Area include rehabilitation and/or relocation of combined sewers, control of wet weather related pollution, and upgrades to pumping stations. Most projects in this Program Area are related to the Nine Minimum Controls and include planned upgrades to facilities based on our long term facilities plan.

ACCOMPLISHMENTS

- Completed mining the First Street Tunnel, which will reduce flooding in the Bloomingdale neighborhood of the District of Columbia.
- Completed design and issued documents for the procurement of the Northeast Boundary Tunnel, the final segment of the Anacostia River Tunnel System
- Completed conceptual design and issued documents for the procurement of the first Rock Creek Green Infrastructure project.
- Continued mining activities to construct the Anacostia River Tunnel, over 80 percent completed.
- Inspection and assessment of major combined sewer assets continued in FY 2016.
 - B Street/NJ Avenue Trunk Sewer was inspected, assessed, and design commenced for construction implementation in mid-2018.
 - Tiber Creek Trunk Sewer was also inspected and assessed with design commencing next year.

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

DC Clean Rivers – This project aims to nearly eliminate CSO's to the Anacostia and Potomac Rivers and Rock Creek, while improving the health of the Chesapeake Bay. This ongoing project is currently employing green infrastructure initiatives that will divert enriched water to the Blue Plains AWWTP for cleaning and processing. The tunnels have been completed between Blue Plains and Main & O Pumping Stations. The Anacostia River Tunnel is over 80 percent complete.

Combined Sewer Overflow

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

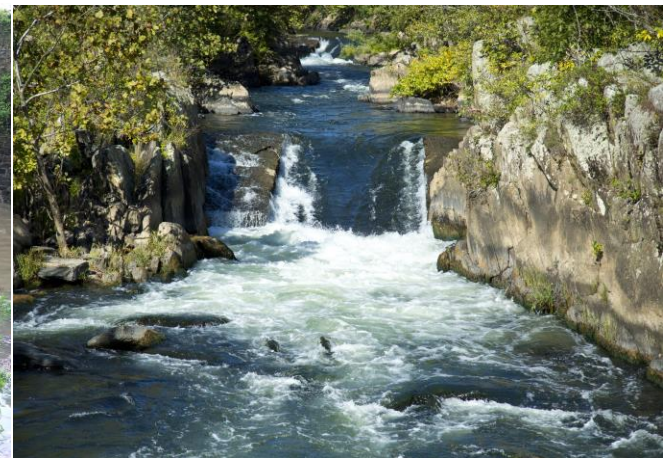
| DC CLEAN RIVERS | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|--|--|---------|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|------------------|--------------------|--------------------|------------|
| CY | Anacostia LTCP Projects | FY 2005 | Active | \$141,949 | \$76,888 | \$105,731 | \$148,210 | \$161,495 | \$73,297 | \$44,791 | \$3,104 | \$3,485 | \$632 | \$759,581 | \$1,910,975 | FY 2026 |
| CZ | Potomac LTCP Projects | FY 2010 | Active | 22,439 | 31,832 | 6,927 | 0 | 13,996 | 26,823 | 28,136 | 64,760 | 46,866 | 120,590 | 362,370 | 614,100 | FY 2029 |
| DZ | Rock Creek CSS LTCP Project | FY 2010 | Active | 6,912 | 7,992 | 3,316 | 0 | 0 | 15,701 | 22,992 | 5,757 | 13,176 | 24,521 | 100,368 | 238,939 | FY 2030 |
| TOTAL DC CLEAN RIVERS BUDGETS | | | | \$171,300 | \$116,713 | \$115,974 | \$148,210 | \$175,492 | \$115,822 | \$95,920 | \$73,621 | \$63,527 | \$145,743 | \$1,222,320 | \$2,764,014 | |
| PROGRAM MANAGEMENT | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
| AV | CSO Program Management | FY 2001 | Active | \$3,827 | \$5,355 | \$3,943 | \$1,376 | \$2,760 | \$4,098 | \$4,409 | \$3,019 | \$1,829 | \$0 | \$30,615 | \$64,563 | FY 2025 |
| TOTAL PROGRAM MANAGEMENT BUDGETS | | | | \$3,827 | \$5,355 | \$3,943 | \$1,376 | \$2,760 | \$4,098 | \$4,409 | \$3,019 | \$1,829 | \$0 | \$30,615 | \$64,563 | |
| COMBINED SEWER | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
| A7 | Supplemental Environmental Projects | FY 2005 | Closed | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,900 | FY 2015 |
| DD | O Street Development Effort | FY 2006 | Closed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 185 | FY 2016 |
| BA | DC Water Low Impact Development | FY 2002 | Active | 114 | 58 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 182 | 2,935 | FY 2019 |
| BH | Rock Creek CSO Projects | FY 2004 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16,670 | FY 2017 |
| EJ | Potomac Pumping Station Ph III Rehab | FY 2010 | Active | 2,222 | 1,185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,407 | 22,784 | FY 2018 |
| EK | Long Term Rehab-Main & O Pump Sta | FY 2021 | Active | 0 | 0 | 0 | 0 | 19 | 52 | 2,046 | 6,245 | 3,537 | 2,592 | 14,492 | 55,644 | FY 2030 |
| EL | Swirl Facility Rehabilitation | FY 2008 | Active | 146 | 186 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 332 | 4,570 | FY 2018 |
| EQ | Potomac Pumping Station Ph IV Rehab | FY 2019 | Active | 0 | 0 | 45 | 86 | 1,372 | 0 | 0 | 0 | 0 | 0 | 1,503 | 2,325 | FY 2021 |
| FQ | Main & O St. PS Intermediate Upgrade | FY 2010 | Active | 4,357 | 6,289 | 4,877 | 3,565 | 2,571 | 1,360 | 0 | 0 | 0 | 0 | 23,019 | 46,185 | FY 2022 |
| FX | Rehab Northeast Boundary Sewer Ph I | FY 2015 | Active | 985 | 9 | 18 | 581 | 472 | 4,157 | 5,204 | 98 | 37 | 27 | 11,588 | 18,500 | FY 2029 |
| FZ | Tiber Creek Sewer Lining Ph I | FY 2017 | Active | 587 | 650 | 2,076 | 5,953 | 1,358 | 0 | 0 | 0 | 0 | 0 | 10,624 | 17,113 | FY 2021 |
| G7 | Combined Sewers Under Buildings | FY 2010 | Active | 803 | 31 | 1,029 | 3,675 | 0 | 0 | 0 | 0 | 0 | 0 | 5,537 | 15,981 | FY 2020 |
| IH | Combined Sewer Rehabilitation 2 | FY 2013 | Active | 46 | 0 | 184 | 3,041 | 2,557 | 0 | 0 | 0 | 0 | 0 | 5,828 | 24,833 | FY 2021 |
| IP | Tiber Creek Trunk Sewer Rehabilitation | FY 2022 | Active | 0 | 0 | 0 | 0 | 0 | 442 | 855 | 3,782 | 1,246 | 0 | 6,324 | 8,250 | FY 2025 |
| KI | Main & O St. Pump Stations | FY 1999 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79,901 | FY 2017 |
| OB | Inflatable Dams Replacement FY24 | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 137 | 390 | 3,849 | 4,375 | 6,675 | FY 2027 |
| TOTAL COMBINED SEWER BUDGETS | | | | \$9,260 | \$8,407 | \$8,239 | \$16,901 | \$8,349 | \$6,010 | \$8,105 | \$10,262 | \$5,210 | \$6,468 | \$87,211 | \$324,451 | |
| TOTAL COMBINED SEWER OVERFLOW BUDGETS | | | | \$184,387 | \$130,475 | \$128,156 | \$166,486 | \$186,601 | \$125,929 | \$108,433 | \$86,902 | \$70,566 | \$152,211 | \$1,340,146 | \$3,153,028 | |



City Street Catch Basin



Stormwater Overflow



Potomac River

| FY 2017 - FY 2026 Disbursement Plan | | | | | | | | | | | Lifetime Budget |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|-----------------|
| FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | |
| \$1,706 | \$2,682 | \$4,053 | \$1,196 | \$1,946 | \$5,736 | \$1,233 | \$1,789 | \$1,649 | \$1,064 | \$23,055 | \$83,991 |

(\$ in thousands)

OVERVIEW

Stormwater is the water generated by rain or melted snow on “impervious surfaces” or surfaces that do not allow the water to soak into the ground (such as roads, driveways, sidewalks, parking lots, and buildings). Stormwater runoff occurs when rain or snowmelt flows over these impervious surfaces.

Stormwater can pick up trash, excess nutrients (such as nitrogen and phosphorus), sediment and other pollutants that flow into the storm sewer system or directly to a lake, stream, river, or wetland. Untreated stormwater runoff ends up in the waterbodies we use for swimming, fishing and drinking water. Polluted stormwater runoff can have many adverse effects on plants, fish, animals and people. For example, trash can clog waterbodies, nutrients can cause algae blooms, and sediment impacts aquatic life.

The District’s Municipal Separate Storm Sewer System (MS4), has approximately 600 miles of storm sewer pipes, catch basins, inlets, special structures and related facilities. Some components of the existing storm sewer system are over 100 years old. DC Water is responsible for the maintenance and replacement of the publicly-owned collection and conveyance facilities that transport stormwater runoff to the Anacostia and Potomac Rivers, Rock Creek, and other receiving streams within the District of Columbia.

PROGRAM AREAS

Local Drainage – Includes projects for the investigation, design and repair of the Northwest Boundary Interceptor Sewer (over eight foot in diameter) which has shown signs of structural defects during prior inspections.

On-Going – This was created as an annual program for planned projects by the Department of Sewer Services infrastructure improvements. Job numbers are issued to identify the location of the projects. These projects represent a significant effort to maintain the DC Water Sewer infrastructure.

Pumping Facilities – Rehabilitation of twelve of the sixteen stormwater pumping stations that were not upgraded in the last five years. These stations are aging and require new mechanical and electrical equipment to maintain operations. These facilities, a part of DC Water overall Sewer infrastructure are significant assets which require regular upgrades for efficient operation.

DDOT – The annual program of stormwater infrastructure projects are coordinated with street rehabilitation or other construction work performed by the District of Columbia Department of Transportation. In an effort to ease public disruption and save paving costs, DC Water coordinates its activities with those by the District Department of Transportation.

Research and Program Management – Provides engineering program management services for the stormwater service area capital projects and design management services for the rehabilitation or replacement of fifteen stormwater pumping stations. It also provides engineering services for condition assessment of the storm sewer system and development of conceptual design for the storm sewer system capital projects.

Trunk/Force Sewers – Provides for the design and construction services for stormwater sewer interceptors, trunk sewers and force mains that require upgrades. Sewers rehabilitated by this project are defined by the major planning and condition assessment program underway for the stormwater sewer system. As the assessment of the storm sewer system progresses and specific rehabilitation needs are identified, jobs will be created under this project to remediate system problems.

ACCOMPLISHMENTS

- Five projects for the rehabilitation and improvement of the storm sewer system, were completed and closed in the past fiscal year.
- FEMA grants for permanent generators at five pumping stations, and rehabilitation and flood proofing of one of these pumping station was received with construction of these improvements commencing in FY 2018.

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| LOCAL DRAINAGE | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|-------------------------------------|--------------------------------------|---------|--------|--------------|------------|-------------|--------------|-------------|--------------|--------------|--------------|----------------|--------------|----------------|-----------------|------------|
| A6 | Lining 22nd & P Sts. NW/NWBSO Repair | FY 2001 | Active | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,040 | FY 2015 |
| GY | Storm Sewer Rehab Various Location | FY 2013 | Active | 172 | 8 | 76 | 343 | 0 | 0 | 0 | 0 | 0 | 0 | 599 | 5,680 | FY 2020 |
| IE | Storm Sewer Rehabilitation 3 | FY 2020 | Active | 0 | 0 | 0 | 10 | 69 | 642 | 272 | 864 | 1,055 | 222 | 3,134 | 7,017 | FY 2026 |
| TOTAL LOCAL DRAINAGE BUDGETS | | | | \$172 | \$8 | \$76 | \$353 | \$69 | \$642 | \$272 | \$864 | \$1,055 | \$222 | \$3,733 | \$15,736 | |

| ON-GOING | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|-------------------------------|----------------------------------|---------|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|-----------------|------------|
| C6 | FY2006 - DSS Stormwater Projects | FY 2005 | Closed | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$497 | FY 2007 |
| AO | FY2009 - DSS Stormwater Projects | FY 2009 | Closed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 497 | FY 2010 |
| CD | FY2012 - DSS Stormwater Projects | FY 2011 | Closed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 630 | FY 2016 |
| D7 | FY2014 - DSS Stormwater Projects | FY 2014 | Closed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 680 | FY 2016 |
| DJ | FY2015 - DSS Stormwater Projects | FY 2015 | Closed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 701 | FY 2016 |
| BD | FY2011 - DSS Stormwater Projects | FY 2011 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 618 | FY 2014 |
| CN | FY2013 - DSS Stormwater Projects | FY 2013 | Active | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 660 | FY 2017 |
| DX | FY2016 - DSS Stormwater Projects | FY 2016 | Active | 75 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 720 | FY 2018 |
| FN | FY2017 - DSS Stormwater Projects | FY 2017 | Active | 304 | 234 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 538 | 745 | FY 2018 |
| H5 | FY2018 - DSS Stormwater Projects | FY 2018 | Active | 0 | 313 | 270 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 583 | 770 | FY 2019 |
| HM | FY2019 - DSS Stormwater Projects | FY 2019 | Active | 0 | 0 | 375 | 228 | 0 | 0 | 0 | 0 | 0 | 0 | 603 | 794 | FY 2020 |
| JH | FY2020 - DSS Stormwater Projects | FY 2020 | Active | 0 | 0 | 0 | 370 | 237 | 0 | 0 | 0 | 0 | 0 | 607 | 820 | FY 2021 |
| LO | FY2021 - DSS Stormwater Projects | FY 2021 | Active | 0 | 0 | 0 | 0 | 381 | 249 | 0 | 0 | 0 | 0 | 631 | 845 | FY 2022 |
| M8 | FY2022 - DSS Stormwater Projects | FY 2022 | Active | 0 | 0 | 0 | 0 | 0 | 510 | 204 | 0 | 0 | 0 | 715 | 820 | FY 2023 |
| MG | FY2023 - DSS Stormwater Projects | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 529 | 212 | 0 | 0 | 741 | 845 | FY 2024 |
| NV | FY2024 - DSS Stormwater Projects | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 551 | 217 | 0 | 768 | 870 | FY 2025 |
| PI | FY2025 - DSS Stormwater Projects | FY 2025 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 249 | 534 | 783 | 896 | FY 2026 |
| TOTAL ON-GOING BUDGETS | | | | \$424 | \$572 | \$644 | \$599 | \$618 | \$760 | \$734 | \$762 | \$466 | \$534 | \$6,113 | \$12,408 | |

| PUMPING FACILITIES | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|---|---|---------|--------|--------------|----------------|----------------|-------------|----------------|----------------|-------------|------------|------------|--------------|----------------|-----------------|------------|
| NG | Stormwater Pump Stations Rehabilitation | FY 2017 | Active | \$368 | \$1,743 | \$2,068 | \$72 | \$1,136 | \$4,155 | \$20 | \$0 | \$0 | \$308 | \$9,869 | \$25,000 | FY 2028 |
| TOTAL PUMPING FACILITIES BUDGETS | | | | \$368 | \$1,743 | \$2,068 | \$72 | \$1,136 | \$4,155 | \$20 | \$0 | \$0 | \$308 | \$9,869 | \$25,000 | |

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousand

| DDOT | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|---------------------------|-----------------------------------|---------|---------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|-------------|----------------|------------|
| P5 | FY2004 - DDOT Stormwater Projects | FY 2004 | Active | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$20 | FY 2016 |
| P8 | FY2007 - DDOT Stormwater Projects | FY 2015 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 155 | FY 2016 |
| P9 | FY2008 - DDOT Stormwater Projects | FY 2015 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,000 | FY 2016 |
| AR | FY2009 - DDOT Stormwater Projects | FY 2015 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160 | FY 2015 |
| B3 | FY2010 - DDOT Stormwater Projects | FY 2015 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 165 | FY 2015 |
| BM | FY2011 - DDOT Stormwater Projects | FY 2015 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170 | FY 2015 |
| CB | FY2012 - DDOT Stormwater Projects | FY 2015 | Active | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 175 | FY 2017 |
| CL | FY2013 - DDOT Stormwater Projects | FY 2017 | Active | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 180 | FY 2018 |
| D8 | FY2014 - DDOT Stormwater Projects | FY 2018 | Active | 0 | 2 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 185 | FY 2019 |
| DK | FY2015 - DDOT Stormwater Projects | FY 2015 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 191 | FY 2015 |
| DT | FY2016 - DDOT Stormwater Projects | FY 2016 | Active | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 196 | FY 2017 |
| FM | FY2017 - DDOT Stormwater Projects | FY 2015 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 205 | FY 2015 |
| H4 | FY2018 - DDOT Stormwater Projects | FY 2018 | Active | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 215 | FY 2018 |
| HP | FY2019 - DDOT Stormwater Projects | FY 2015 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 220 | FY 2015 |
| TOTAL DDOT BUDGETS | | | | \$16 | \$19 | \$12 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$48 | \$3,237 | |

| RESEARCH & PROGRAM MANAGEMENT | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion | |
|--|-------------------------------|---------|---------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|----------------|-----------------|---------|
| AT | Stormwater Program Management | FY 2001 | Active | \$270 | \$238 | \$182 | \$64 | \$123 | \$179 | \$207 | \$163 | \$129 | \$0 | \$1,554 | \$12,013 | FY 2025 |
| TOTAL RESEARCH & PROGRAM MANAGEMENT BUDGETS | | | | \$270 | \$238 | \$182 | \$64 | \$123 | \$179 | \$207 | \$163 | \$129 | \$0 | \$1,554 | \$12,013 | |

| TRUNK/FORCE SEWERS | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|---|----------------------------|---------|---------|--------------|--------------|----------------|--------------|------------|------------|------------|------------|------------|----------------|-----------------|------------|
| BO | Future Stormwater Projects | FY 2005 | Active | \$456 | \$102 | \$1,070 | \$109 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,737 | \$15,597 | FY 2020 |
| TOTAL TRUNK/FORCE SEWERS BUDGETS | | | | \$456 | \$102 | \$1,070 | \$109 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,737 | \$15,597 | |

| | | | | | | | | | | | | | | | |
|---------------------------------|--|--|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| TOTAL STORMWATER BUDGETS | | | | \$1,706 | \$2,682 | \$4,053 | \$1,196 | \$1,946 | \$5,736 | \$1,233 | \$1,789 | \$1,649 | \$1,064 | \$23,055 | \$83,991 |
|---------------------------------|--|--|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|



Work on Sewer Laterals



Sewer Inspection Work



Sewer Rehabilitation - CIPP

FY 2017 - FY 2026 Disbursement Plan

| FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime Budget |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-----------------|
| \$38,302 | \$39,294 | \$52,999 | \$57,741 | \$54,704 | \$59,479 | \$54,447 | \$53,235 | \$52,753 | \$50,563 | \$513,517 | \$1,448,589 |

(\$ in thousands)

OVERVIEW

DC Water is responsible for wastewater collection and transmission in the District of Columbia, including operation and maintenance of the sanitary sewer system. The sanitary sewer system includes approximately 1,900 miles of combined, sanitary, and stormwater sewers; 50,000 manholes; 25,000 catch basins; 22 flow-metering stations, nine wastewater pumping stations, and 16 stormwater pumping stations. The combined sewer system generally serves the central, older portions of the District, and the sanitary sewer system includes approximately 600 miles of large interceptor sewers and smaller gravity collection sewers. DC Water is also responsible for sewer lateral connections from the sewer mains to the property lines of residential, government, and commercial properties. In addition, DC Water is responsible for the 50-mile long Potomac Interceptor System, which provides conveyance of wastewater from Dulles International Airport, and areas in Virginia and Maryland, to the Blue Plains AWWTP.

PROGRAM AREAS

Collection Sewers – Includes studies and projects to effectively eliminate stormwater, groundwater, and other infiltration and inflow to the sewer system; to separate stormwater flows; and to reduce other extraneous flows to Blue Plains. This category also includes projects to rehabilitate sanitary sewer pipes.

On-Going – Capital projects managed by the Department of Sewer Services including the replacement of sewer laterals, sewer mains, inspection and cleaning of sewer laterals and mains.

Pumping Facilities – Projects required for the upgrade of existing wastewater pumping stations, as well as projects for the engineering and construction of new wastewater pumping facilities to enhance the reliability and integrity of DC Water’s sanitary sewer system.

Program Management – Engineering program management services for the sewer system capital improvement program, including assessing system needs, developing facilities plans, developing design scopes of work, preparing cost estimates, preparing task orders or agreements, and reviewing design documents.

Interceptor/Trunk Force Sewers – The replacement or rehabilitation of large diameter sewers that have reached the end of their useful life or are in need of major repair.

ACCOMPLISHMENTS

- Over 60 miles of sewer inspection and 50 miles of condition assessment were successfully completed in FY 2016.
- Two hundred eleven (211) sewer flow meters were installed these are continuing to gather important data on the operation of the system. This data is being used to develop an overarching coordination plan to link all monitoring efforts throughout the DC Water collection system, calibrate the system-wide sewer model, provide inflow/infiltration characterization, and assess rehabilitation effectiveness.
- The Upper Potomac Interceptor Relief Sewer was cleaned under live-flow conditions (150 MGD average daily flow) removing 20,000 cubic feet of debris.
- Two Odor Abatement Facilities in Virginia were substantially completed in late 2015. These two, together with three in Maryland and one in the District, are undergoing continued improvements through the addition of dual-media treatment which will greatly improve the conditions along the Potomac Interceptor for the adjacent residential and commercial areas, and hiker/bikers along the C&O Canal Tow Path.
- Received FEMA grants for a portable generator to serve any one of DC Water’s primary pumping stations (Sewer – Main, O Street or Potomac or Water – Bryant Street), and a generator purchase, construction to commence in 2018.
- O Street Pumping Station improvements, associated with the new headquarters building, commenced construction in FY 2016.
- Construction of the sewer rehabilitation within the National Arboretum, commenced during the summer of 2016. This project will rehabilitate the Upper ESI and local sewers within the property.
- DC Water is participating with DDOE on a stream restoration project, along Pope Branch, to protect the sewer in the stream valley.

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

Potomac Interceptor Odor Abatement Facilities – The Potomac Interceptor (PI) is a 50-mile long sanitary sewer starting at the Washington-Dulles International Airport and serving Loudoun and Fairfax Counties in Virginia, Montgomery County, Maryland, and the District of Columbia. The PI was constructed in the 1960's and today carries greater than 50 million gallons a day of wastewater to the Blue Plains Advanced Wastewater Treatment Plant. DC Water maintains this asset through regular internal inspections to identify segments needing rehabilitation, and subsequently undertakes CIP projects to rehabilitate and maintain the integrity of the PI.

DC Water operates six odor abatement facilities located strategically along the PI. Four facilities are adjacent to the C&O Canal with one facility in northwest Washington, DC and three within Maryland with the other two facilities in Virginia. These facilities use a vacuum blower to pull odorous air from the PI and push it through a dual-bed carbon filter before discharging to the atmosphere. Combined with passive treatment units (carbon canisters) located in various vents along the PI these facilities help reduce the odorous air emitted from the sewer in public areas. Contributing to better public relations.

Sanitary Sewer

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| COLLECTION SEWERS | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|--|----------------------------------|---------|--------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|-----------------|------------------|------------------|------------|
| JX | Sanitary Sewer Rehabilitation 10 | FY 2017 | Active | \$6 | \$6 | \$1,070 | \$3,502 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,584 | \$13,600 | FY 2020 |
| JU | Sanitary Sewer Rehabilitation 13 | FY 2018 | Active | 0 | 46 | 377 | 3,279 | 1,975 | 197 | 0 | 0 | 0 | 0 | 5,875 | 15,175 | FY 2022 |
| JS | Sanitary Sewer Rehabilitation 15 | FY 2019 | Active | 0 | 0 | 52 | 469 | 3,846 | 1,265 | 0 | 0 | 0 | 0 | 5,633 | 13,830 | FY 2022 |
| PY | Sanitary Sewer Rehabilitation 16 | FY 2020 | Active | 0 | 0 | 0 | 185 | 744 | 5,868 | 70 | 0 | 0 | 0 | 6,868 | 16,100 | FY 2023 |
| LK | Sanitary Sewer Rehabilitation 17 | FY 2020 | Active | 0 | 0 | 0 | 49 | 372 | 3,934 | 2,232 | 0 | 0 | 0 | 6,587 | 16,100 | FY 2023 |
| LL | Sanitary Sewer Rehabilitation 18 | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 460 | 944 | 6,665 | 135 | 8,204 | 16,582 | FY 2026 |
| NF | Sanitary Sewer Rehabilitation 19 | FY 2021 | Active | 0 | 0 | 0 | 0 | 82 | 535 | 3,707 | 2,683 | 0 | 0 | 7,006 | 15,164 | FY 2024 |
| MO | Sanitary Sewer Rehabilitation 20 | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 398 | 923 | 6,251 | 7,571 | 15,000 | FY 2027 |
| NI | Sanitary Sewer Rehabilitation 21 | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 586 | 5,097 | 5,773 | 17,100 | FY 2027 |
| MP | Sanitary Sewer Rehabilitation 22 | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 387 | 1,232 | 7,146 | 30 | 8,796 | 17,600 | FY 2026 |
| NC | Sanitary Sewer Rehabilitation 23 | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 106 | 683 | 5,026 | 3,108 | 8,922 | 17,600 | FY 2026 |
| MZ | Sanitary Sewer Rehabilitation 24 | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 378 | 1,097 | 7,559 | 9,034 | 18,100 | FY 2027 |
| NX | Sanitary Sewer Rehabilitation 25 | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 123 | 763 | 7,063 | 7,949 | 18,664 | FY 2027 |
| NY | Sanitary Sewer Rehabilitation 26 | FY 2025 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 557 | 1,780 | 2,337 | 19,100 | FY 2027 |
| J3 | Sewer Upgrade - City Wide | FY 2001 | Active | 1,200 | 1,450 | 558 | 558 | 285 | 0 | 0 | 0 | 0 | 0 | 4,049 | 18,004 | FY 2021 |
| G1 | Small Local Sewer Rehab 1 | FY 2010 | Active | 2,219 | 748 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,967 | 28,114 | FY 2018 |
| G8 | Small Local Sewer Rehab 2 | FY 2010 | Active | 476 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 476 | 2,842 | FY 2017 |
| G9 | Small Local Sewer Rehab 3 | FY 2014 | Active | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 368 | FY 2017 |
| GA | Small Local Sewer Rehab 4 | FY 2015 | Active | 988 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 988 | 8,557 | FY 2017 |
| QB | Sanitary Sewer Rehabilitation 27 | FY 2026 | New | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,218 | 1,218 | 45,000 | FY 2028 |
| TOTAL COLLECTION SEWERS BUDGETS | | | | \$4,890 | \$2,249 | \$2,057 | \$8,042 | \$7,304 | \$11,799 | \$6,962 | \$6,531 | \$22,763 | \$32,239 | \$104,837 | \$332,601 | |

| ON-GOING | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|----------|--------------------------------------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|----------|------------|
| CE | FY2012 - DSS Sanitary Sewer Projects | FY 2012 | Closed | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$9,375 | FY 2015 |
| CQ | FY2013 - DSS Sanitary Sewer Projects | FY 2013 | Closed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,205 | FY 2015 |
| Q3 | FY2003 - DSS Sanitary Sewer Projects | FY 2003 | Active | 2,451 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,496 | 13,863 | FY 2018 |
| BF | FY2011 - DSS Sanitary Sewer Projects | FY 2011 | Active | 1,412 | 984 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,396 | 8,165 | FY 2018 |
| D6 | FY2014 - DSS Sanitary Sewer Projects | FY 2014 | Active | 1,233 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,233 | 10,575 | FY 2017 |
| DI | FY2015 - DSS Sanitary Sewer Projects | FY 2015 | Active | 158 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 10,846 | FY 2017 |
| DW | FY2016 - DSS Sanitary Sewer Projects | FY 2015 | Active | 1,501 | 2,540 | 1,099 | 172 | 0 | 0 | 0 | 0 | 0 | 0 | 5,311 | 14,601 | FY 2020 |
| FP | FY2017 - DSS Sanitary Sewer Projects | FY 2017 | Active | 5,083 | 3,118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,200 | 11,500 | FY 2018 |
| H6 | FY2018 - DSS Sanitary Sewer Projects | FY 2018 | Active | 0 | 4,959 | 3,838 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,796 | 11,845 | FY 2019 |
| HN | FY2019 - DSS Sanitary Sewer Projects | FY 2019 | Active | 0 | 0 | 5,960 | 4,410 | 0 | 0 | 0 | 0 | 0 | 0 | 10,369 | 12,200 | FY 2020 |
| J1 | FY2020 - DSS Sanitary Sewer Projects | FY 2020 | Active | 0 | 0 | 0 | 5,049 | 5,761 | 0 | 0 | 0 | 0 | 0 | 10,809 | 12,568 | FY 2021 |

Sanitary Sewer

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| ON-GOING, CONT. | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|-------------------------------|--------------------------------------|---------|--------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|------------------|------------------|------------|
| LN | FY2021 - DSS Sanitary Sewer Projects | FY 2021 | Active | \$0 | \$0 | \$0 | \$0 | \$4,651 | \$5,477 | \$0 | \$0 | \$0 | \$0 | \$10,127 | \$12,945 | FY 2022 |
| M9 | FY2022 - DSS Sanitary Sewer Projects | FY 2022 | Active | 0 | 0 | 0 | 0 | 0 | 4,727 | 5,748 | 0 | 0 | 0 | 10,476 | 13,335 | FY 2023 |
| MF | FY2023 - DSS Sanitary Sewer Projects | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 4,956 | 5,901 | 0 | 0 | 10,857 | 13,735 | FY 2024 |
| NW | FY2024 - DSS Sanitary Sewer Projects | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,207 | 6,102 | 0 | 11,308 | 14,225 | FY 2025 |
| OX | FY2025 - DSS Sanitary Sewer Projects | FY 2025 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,353 | 6,210 | 11,563 | 14,650 | FY 2026 |
| TOTAL ON-GOING BUDGETS | | | | \$11,838 | \$11,645 | \$10,896 | \$9,630 | \$10,411 | \$10,204 | \$10,704 | \$11,107 | \$11,455 | \$6,210 | \$104,100 | \$194,633 | |

| PUMPING FACILITIES | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|---|---|---------|--------|----------------|--------------|----------------|----------------|----------------|--------------|--------------|------------|------------|------------|----------------|-----------------|------------|
| CX | Sewer Facilities Security Upgrades | FY 2011 | Active | \$246 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$246 | \$1,335 | FY 2017 |
| GZ | Sewer Instrumentation & Control | FY 2012 | Active | 1,422 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,451 | 8,785 | FY 2018 |
| HB | DSS Sewer Pumping Project | FY 2010 | Active | 278 | 9 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 304 | 4,560 | FY 2020 |
| LY | Sewer Facilities Security Upgrades | FY 2018 | Active | 0 | 72 | 248 | 263 | 158 | 0 | 0 | 0 | 0 | 0 | 740 | 2,000 | FY 2021 |
| MB | 3rd St & Constitution Ave NW PS | FY 2014 | Active | 194 | 1 | 727 | 1,123 | 91 | 0 | 0 | 0 | 0 | 0 | 2,135 | 7,374 | FY 2021 |
| MC | Additional Sewer Scada System Sites | FY 2015 | Active | 667 | 177 | 742 | 821 | 15 | 0 | 0 | 0 | 0 | 0 | 2,423 | 8,000 | FY 2021 |
| PM | East Side Pumping Station | FY 2019 | Active | 0 | 0 | 66 | 170 | 1,309 | 56 | 0 | 0 | 0 | 0 | 1,601 | 4,000 | FY 2022 |
| PT | Existing Sewer Facilities Bldg Optimization | FY 2020 | Active | 0 | 0 | 0 | 6 | 15 | 84 | 209 | 0 | 0 | 0 | 313 | 705 | FY 2023 |
| TOTAL PUMPING FACILITIES BUDGETS | | | | \$2,806 | \$290 | \$1,793 | \$2,389 | \$1,588 | \$140 | \$209 | \$0 | \$0 | \$0 | \$9,214 | \$36,759 | |

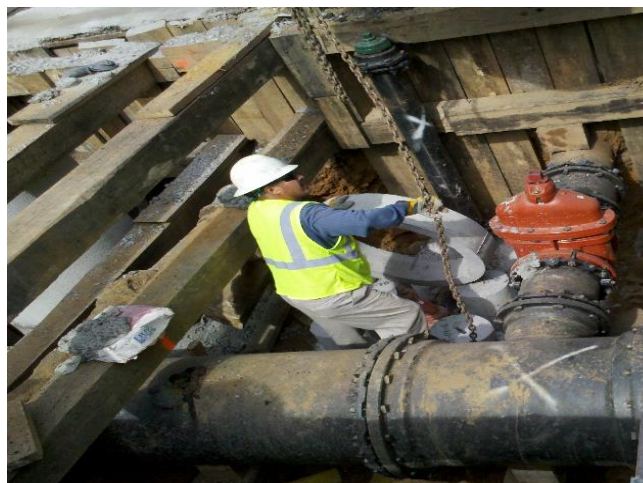
| PROGRAM MANAGEMENT | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|---|-----------------------------------|---------|--------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------|
| AU | Sanitary Sewer Program Management | FY 2001 | Active | \$3,651 | \$5,165 | \$3,822 | \$1,484 | \$2,841 | \$4,141 | \$4,508 | \$3,395 | \$2,578 | \$0 | \$31,585 | \$75,901 | FY 2025 |
| DN | Sewer Inspection Program | FY 2010 | Active | 4,130 | 6,418 | 5,363 | 3,254 | 2,061 | 2,774 | 2,719 | 3,246 | 2,650 | 1,810 | 34,423 | 54,890 | FY 2026 |
| LR | Sanitary Sewer Asset Management | FY 2014 | Active | 975 | 334 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,309 | 5,000 | FY 2018 |
| TOTAL PROGRAM MANAGEMENT BUDGETS | | | | \$8,755 | \$11,917 | \$9,184 | \$4,738 | \$4,902 | \$6,915 | \$7,227 | \$6,640 | \$5,228 | \$1,810 | \$67,316 | \$135,791 | |

| INTERCEPTOR/TRUNK FORCE SEWER | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|-------------------------------|---|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|----------|------------|
| FV | Rehabilitation Of East Side Interceptor | FY 2011 | Closed | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$15,143 | FY 2016 |
| A4 | Future Sewer System Upgrades | FY 2004 | Active | 994 | 1,476 | 1,379 | 139 | 0 | 0 | 0 | 0 | 0 | 0 | 3,988 | 43,456 | FY 2020 |
| DM | UAMI Relief Sewer | FY 2010 | Active | 0 | 0 | 100 | 418 | 63 | 34 | 1,463 | 4,103 | 815 | 0 | 6,996 | 14,505 | FY 2025 |
| DR | Low Area Trunk Sewer Rehabilitation | FY 2009 | Active | 166 | 535 | 3,993 | 1,403 | 0 | 0 | 0 | 0 | 0 | 0 | 6,098 | 17,735 | FY 2020 |
| FW | Rehab Piney Branch Trunk Sewer | FY 2011 | Active | 40 | 26 | 1,418 | 3,674 | 2,757 | 7,105 | 1,839 | 0 | 0 | 0 | 16,858 | 40,443 | FY 2023 |
| FY | Rehab Upstream Rock Creek Main Intrcpt | FY 2015 | Active | 739 | 774 | 0 | 13 | 480 | 748 | 5,765 | 4,211 | 0 | 0 | 12,731 | 29,560 | FY 2024 |
| G2 | Sewer Structure Rehabilitation I | FY 2010 | Active | 76 | 638 | 700 | 463 | 0 | 0 | 0 | 0 | 0 | 0 | 1,877 | 9,182 | FY 2020 |
| G4 | Upper Potomac Intercept Sewer Rehab. | FY 2001 | Active | 641 | 0 | 0 | 0 | 0 | 0 | 0 | 857 | 1,447 | 2,698 | 5,643 | 13,514 | FY 2026 |

Sanitary Sewer

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

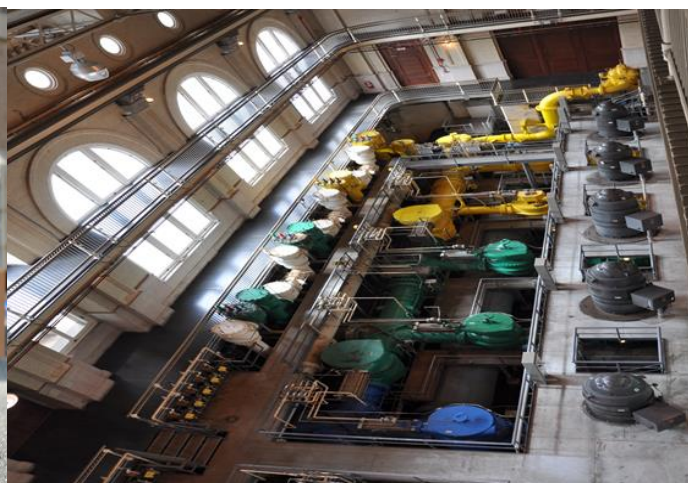
| INTERCEPTOR/TRUNK FORCE, CONT. | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|--|---|---------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------|------------|
| G5 | Sewer Rehab Near Creek Beds | FY 2010 | Active | \$1,143 | \$1,189 | \$3,509 | \$7,714 | \$3,653 | \$117 | \$0 | \$0 | \$0 | \$0 | \$17,325 | \$50,893 | FY 2022 |
| G6 | Sanitary Sewers Under Buildings I | FY 2010 | Active | 289 | 0 | 272 | 1,207 | 0 | 0 | 0 | 0 | 0 | 0 | 1,768 | 6,666 | FY 2020 |
| GG | Large Sewer Rehab 2 | FY 2014 | Active | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 452 | FY 2017 |
| GH | Large Sewer Rehab 3 | FY 2014 | Active | 0 | 0 | 0 | 2,657 | 5,693 | 47 | 0 | 0 | 0 | 0 | 8,397 | 20,195 | FY 2022 |
| HS | Rehabilitation Of Influent Sewers | FY 2017 | Active | 708 | 446 | 552 | 1,415 | 5,192 | 5,701 | 2,139 | 89 | 823 | 859 | 17,922 | 97,430 | FY 2031 |
| HT | Rehabilitation Of Anacostia Force Main | FY 2012 | Active | 220 | 55 | 0 | 110 | 300 | 161 | 1,219 | 1,485 | 21 | 0 | 3,572 | 11,290 | FY 2025 |
| IF | Sanitary Sewer Rehabilitation 2 | FY 2015 | Active | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | 1,540 | FY 2017 |
| IK | Potomac Force Main Rehabilitation | FY 2013 | Active | 58 | 359 | 1,055 | 702 | 0 | 0 | 0 | 0 | 0 | 0 | 2,175 | 6,074 | FY 2020 |
| IL | Creekbed Sewer Rehabilitation 2 | FY 2014 | Active | 2,834 | 4,204 | 1,232 | 2,968 | 1,583 | 31 | 0 | 0 | 0 | 0 | 12,852 | 52,615 | FY 2022 |
| IM | Creekbed Sewer Rehabilitation 3 | FY 2016 | Active | 114 | 201 | 191 | 700 | 517 | 999 | 3,109 | 301 | 0 | 0 | 6,132 | 15,462 | FY 2024 |
| IN | Upper East Side Trunk Sewer Rehab | FY 2014 | Active | 33 | 494 | 682 | 188 | 2,745 | 3,876 | 0 | 0 | 0 | 0 | 8,018 | 19,002 | FY 2022 |
| IQ | Slash Run Sewer Rehabilitation | FY 2022 | Active | 0 | 0 | 0 | 0 | 0 | 383 | 1,550 | 3,331 | 0 | 0 | 5,265 | 10,000 | FY 2024 |
| IR | Anacostia Main Interceptor Rehabilitation | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 1,170 | 2,088 | 4,026 | 0 | 7,285 | 14,250 | FY 2025 |
| J0 | B St/New Jersey Ave Trunk Sewer Rehab | FY 2004 | Active | 98 | 577 | 3,907 | 1,213 | 16 | 0 | 0 | 0 | 0 | 0 | 5,810 | 16,200 | FY 2021 |
| J1 | Oxon Run Sewer Rehabilitation | FY 2004 | Active | 97 | 414 | 602 | 234 | 295 | 976 | 3,080 | 5,784 | 2,562 | 0 | 14,044 | 30,051 | FY 2025 |
| JK | Little Falls Rehabilitation Project | FY 2019 | Active | 0 | 0 | 37 | 149 | 1,243 | 425 | 0 | 0 | 0 | 0 | 1,854 | 4,000 | FY 2029 |
| JM | Northwest Major Sewer Rehabilitation | FY 2020 | Active | 0 | 0 | 0 | 272 | 1,018 | 2,033 | 0 | 0 | 0 | 0 | 3,323 | 7,000 | FY 2022 |
| LZ | Potomac Interceptor - Rehab Ph 2 | FY 2015 | Active | 1,042 | 1,612 | 7,119 | 1,295 | 4,514 | 5,655 | 5,410 | 6,242 | 2,294 | 3,401 | 38,587 | 99,190 | FY 2028 |
| N7 | Potomac Sewer System Rehab. | FY 2000 | Active | 372 | 52 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 441 | 48,019 | FY 2019 |
| O4 | Southwest Interceptor Inspection/Rehab | FY 2019 | Active | 0 | 0 | 46 | 85 | 216 | 1,710 | 129 | 0 | 0 | 0 | 2,186 | 4,530 | FY 2028 |
| O7 | East Rock Creek Diversion Inspect/Rehab | FY 2025 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 251 | 1,248 | 1,499 | 6,600 | FY 2026 |
| OA | West Rock Creek Diversion Inspect/Rehab | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,810 | FY 2025 |
| PJ | Re-Activation Of Anacostia Force Main | FY 2017 | Active | 209 | 143 | 2,257 | 5,923 | 0 | 0 | 0 | 0 | 0 | 0 | 8,533 | 20,000 | FY 2020 |
| PU | Easby Point Trunk Sewer | FY 2021 | Active | 0 | 0 | 0 | 0 | 213 | 419 | 2,472 | 464 | 0 | 0 | 3,568 | 7,000 | FY 2024 |
| PV | Broad Branch Trunk Sewer | FY 2025 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,068 | 2,098 | 3,165 | 13,000 | FY 2029 |
| TOTAL INTERCEPTOR/TRUNK FORCE SEWER BUDGETS | | | | \$10,013 | \$13,194 | \$29,068 | \$32,942 | \$30,499 | \$30,419 | \$29,346 | \$28,956 | \$13,307 | \$10,304 | \$228,049 | \$748,806 | |
| TOTAL SANITARY SEWER BUDGETS | | | | \$38,302 | \$39,294 | \$52,999 | \$57,741 | \$54,704 | \$59,479 | \$54,447 | \$53,235 | \$52,753 | \$50,563 | \$513,517 | \$1,448,589 | |



Water line Repairs



DC Water in the Community



Bryant Street Pump Station

FY 2017 - FY 2026 Disbursement Plan

| FY 2017 - FY 2026 Disbursement Plan | | | | | | | | | | Lifetime Budget | |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------------|-------------|
| FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | |
| \$58,819 | \$51,738 | \$64,149 | \$57,102 | \$48,534 | \$54,658 | \$65,512 | \$83,744 | \$78,217 | \$76,915 | \$639,387 | \$1,892,803 |

(\$ in thousands)

OVERVIEW

Delivery of safe, clean, high-quality drinking water is one of DC Water's highest priorities. Drinking water in the District of Columbia comes from the Potomac River. The U.S. Army Corps of Engineers, Washington Aqueduct (Aqueduct), is a federally owned agency responsible for treating the drinking water. DC Water purchases water from the Aqueduct and is responsible for maintaining the distribution system that delivers drinking water to customers. DC Water maintains over 1,300 miles of pipe and distributes drinking water to more than 660,000 residents and businesses in the District of Columbia.

The DC Water distribution system begins at the water treatment plant and ends at private service lines. Customer service lines connect to the mains in the streets and deliver water to residents and commercial buildings, eventually reaching taps. Water is continuously moving through our distribution system, typically at a high water flow that keeps the water fresh. However, once the water leaves the main and enters a customer's service line, the flow of water is dependent on individual water usage.

OVERVIEW, CONT.

DC Water is committed to providing customers with the highest quality drinking water and continuously works to deliver water that goes beyond federal standards. We accomplish this goal by aiming to meet target levels that are stricter than water quality standards required by the EPA. We have a dedicated Drinking Water division that collects and analyzes water samples throughout the District of Columbia. These monitoring programs include sampling and analyses that are required by EPA and additional sampling programs conducted voluntarily by DC Water.

DC Water conducts compliance monitoring on a daily basis to ensure that water quality meets EPA standards. Water quality technicians collect and analyze samples for lead and copper, total coliform (bacteria) and disinfection byproduct levels. Compliance monitoring ensures that drinking water treatment effectively prevents pipe corrosion, removes bacteria and other contaminants, and minimizes potentially harmful treatment byproducts.

DC Water operates voluntary sampling programs to support our commitment to providing high-quality drinking water to our customers. Water quality technicians collect and analyze hundreds of water samples throughout the District of Columbia. The Drinking Water division responds quickly to customer complaints and conducts water quality monitoring among the District's most vulnerable populations. DC Water operates two mobile laboratories that allow technicians to conduct on-site water quality tests and respond to emergencies. The Drinking Water division also distributes hundreds of lead test kits each year to residents and assists residents with identifying lead sources.

PROGRAM AREAS

Distribution Systems – Provides for the rehabilitation, replacement or extension of the water distribution system through several projects. The distribution systems program area is the largest for drinking water and includes three primary elements: small diameter water main renewal; large diameter water main rehabilitation; and valve replacements.

Lead Program – The replacement of approximately 20,500 lead water service lines with copper piping has been completed. Additional replacement continues throughout the water distribution system as part of water main renewals projects and for customers that request full replacement.

On-Going – Includes small projects for .repairing water main breaks, replacing valves and fire hydrants, replacing water service connections, and other minor water main rehabilitation work.

Pumping Facilities – Rehabilitate or upgrade water-pumping stations in the system.

DDOT – Projects for the relocation, rehabilitation, replacement and extension of water mains, for which the work is completed under District Department of Transportation (DDOT) construction contracts for street paving or reconstruction. This program is being closed and combined with distribution projects.

PROGRAM AREAS, CONT.

Storage Facilities – Rehabilitation or upgrade of elevated tanks and reservoirs. Studies to the system have identified the need for upgrades and/or new storage facilities to support changing development patterns, for regulatory compliance, to provide additional water pressure to certain areas of the District, and to provide emergency backup service.

Program Management – Provides engineering program management services for the water system capital improvements program, including asset management, developing facilities plans, conceptual designs, design scopes of work, cost estimates, task orders or agreements, and design document review.

ACCOMPLISHMENTS

- The water service areas are continuing to install small diameter water mains to meet the DC Water Board goal of renewing one (1%) percent of the system annually. This renewal includes a combination of replacement with new water mains and rehabilitation of existing water mains using cleaning and cement mortar lining.
- DC Water continued its Pipe Condition Assessment (PCA) of large diameter water mains. The assessments include detailed field inspection and leak detection of five miles of high-risk water transmission mains annually. Recommendations for rehabilitation result in targeted capital projects to address the identified pipe sections in need of repairs.
- The construction of emergency repairs to the 78-inch North Clear Well water main was completed. This project addressed pipe defects and leaks identified as part of the large diameter water main PCA program and required close coordination with the Washington Aqueduct so that repairs could be completed while the McMillan North Clear Well was out of service.

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

Water Mains – During FY 2016, the Authority continued renewal of small diameter water pipes with the goal of 1.0% annual renewal. Large water main rehabilitation projects continued with two projects using internal structural repair techniques on the existing transmission system. The capital expenditures for linear water asset renewal yields reduced reactive maintenance due to breaks and other unscheduled repairs, particularly helpful in reducing long-term maintenance costs.

Water Pumping and Storage – Three reservoir upgrade projects were completed in FY2016, which accomplished both regulatory upgrades as well as operational improvements. Maintenance costs are expected to be reduced due to improved access for water sampling equipment and well as SCADA improvements that allow for remote monitoring of reservoir water quality.

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| DISTRIBUTION SYSTEMS | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|----------------------|--|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|----------|------------|
| MW | Small Diameter Water Main Rehab 4 | FY 2007 | Closed | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$7,709 | FY 2016 |
| MX | Small Diameter Water Main Rehab 5 | FY 2007 | Closed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9,030 | FY 2016 |
| N9 | Small Diameter Water Main Rehab 7 | FY 2010 | Closed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16,957 | FY 2015 |
| BZ | Large Valve Repl. (Contracts 8 - 9 & 10) | FY 2009 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12,703 | FY 2017 |
| C9 | Large Diameter Water Mains I | FY 2014 | Active | 284 | 1,200 | 5,979 | 2,030 | 0 | 0 | 0 | 0 | 0 | 0 | 9,492 | 19,251 | FY 2020 |
| DE | Small Diameter Water Main Rehab 12 | FY 2015 | Active | 4,647 | 8,824 | 3,784 | 1,432 | 0 | 0 | 0 | 0 | 0 | 0 | 18,687 | 39,850 | FY 2020 |
| F1 | Small Diameter Water Main Rehab 13 | FY 2016 | Active | 450 | 8,061 | 8,378 | 534 | 0 | 0 | 0 | 0 | 0 | 0 | 17,423 | 31,170 | FY 2020 |
| F2 | Small Diameter Water Main Rehab 14 | FY 2017 | Active | 657 | 415 | 9,199 | 10,162 | 286 | 0 | 0 | 0 | 0 | 0 | 20,719 | 40,470 | FY 2021 |
| F6 | Steel Water Main Rehab - Phase I | FY 2009 | Active | 48 | 122 | 1,361 | 804 | 0 | 0 | 0 | 0 | 0 | 0 | 2,336 | 9,944 | FY 2020 |
| FE | 20 Low Service Main & PRV | FY 2012 | Active | 863 | 266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,129 | 8,008 | FY 2018 |
| FT | Water Mains Rehab Phase II | FY 2015 | Active | 687 | 2,071 | 5,477 | 3,473 | 2,766 | 4,193 | 3,646 | 776 | 0 | 0 | 23,090 | 39,980 | FY 2024 |
| GQ | Fire Hydrant Replacement Program - Ph II | FY 2010 | Active | 471 | 151 | 85 | 31 | 14 | 0 | 0 | 0 | 0 | 0 | 753 | 28,244 | FY 2021 |
| GR | Small Diameter Water Main Rehab 15 | FY 2018 | Active | 0 | 857 | 1,335 | 5,823 | 8,877 | 2,459 | 0 | 0 | 0 | 0 | 19,351 | 39,750 | FY 2022 |
| GX | Large Dia. Water Main Repl. II | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 404 | 2,062 | 4,697 | 7,210 | 23,180 | FY 2029 |
| HX | Small Diameter Water Main Rehab 16 | FY 2019 | Active | 0 | 0 | 3,161 | 1,963 | 6,235 | 9,592 | 2,651 | 0 | 0 | 0 | 23,601 | 37,350 | FY 2023 |
| I8 | Large Valve Replacement (Contract 11-13) | FY 2012 | Active | 2,318 | 812 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,171 | 18,549 | FY 2019 |
| IB | Large Valve Replacement (Contract 17-19) | FY 2018 | Active | 0 | 35 | 210 | 1,450 | 3,201 | 3,312 | 2,049 | 118 | 0 | 0 | 10,376 | 20,130 | FY 2024 |
| J7 | Small Diameter Water Main Rehab 17 | FY 2020 | Active | 0 | 0 | 0 | 4,651 | 2,596 | 7,891 | 12,022 | 3,295 | 0 | 0 | 30,455 | 46,650 | FY 2024 |
| JZ | Large Dia Water Main Repl 3 - 4 & 5 | FY 2021 | Active | 0 | 0 | 0 | 0 | 302 | 1,265 | 5,870 | 12,664 | 14,124 | 9,264 | 43,488 | 63,710 | FY 2027 |
| K7 | Large Dia Water Main Repl 6 - 7 & 8 | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 368 | 1,526 | 6,914 | 8,808 | 69,920 | FY 2030 |
| KA | Large Valve Repl Contracts 20 - 21 & 22 | FY 2021 | Active | 0 | 0 | 0 | 0 | 49 | 269 | 1,792 | 3,920 | 4,016 | 2,378 | 12,425 | 17,610 | FY 2027 |
| KB | Large Valve Repl Contracts 23 - 24 & 25 | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 326 | 2,372 | 2,755 | 19,220 | FY 2029 |
| KE | Small Diameter Water Main Rehab 18 | FY 2021 | Active | 0 | 0 | 0 | 0 | 4,332 | 2,681 | 8,425 | 12,811 | 3,500 | 0 | 31,749 | 46,340 | FY 2025 |
| KF | Small Diameter Water Main Rehab 19 | FY 2022 | Active | 0 | 0 | 0 | 0 | 0 | 4,766 | 2,891 | 9,006 | 13,606 | 3,621 | 33,891 | 47,730 | FY 2026 |
| KG | Small Diameter Water Main Rehab 20 | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 5,305 | 3,107 | 9,678 | 14,016 | 32,105 | 49,160 | FY 2027 |
| KH | Small Diameter Water Main Rehab 21 | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,784 | 3,222 | 5,394 | 14,400 | 50,640 | FY 2028 |
| KI | Small Diameter Water Main Rehab 22 | FY 2025 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,894 | 3,635 | 10,529 | 52,160 | FY 2029 |
| MU | Small Diameter Water Main Rehab 2 | FY 2002 | Active | 543 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 543 | 15,043 | FY 2017 |
| MV | Small Diameter Water Main Rehab 3 | FY 2006 | Active | 33 | 66 | 646 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 808 | 15,624 | FY 2020 |
| NA | Clean & Line 20 4th High Wtrmain | FY 2002 | Active | 234 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 285 | 4,556 | FY 2018 |
| O0 | Small Diameter Water Main Rehab 8 | FY 2011 | Active | 37 | 38 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 20,681 | FY 2019 |
| O1 | Small Diameter Water Main Rehab 9 | FY 2012 | Active | 2,278 | 210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,489 | 24,987 | FY 2018 |
| O2 | Small Diameter Water Main Rehab 10 | FY 2013 | Active | 2,582 | 1,586 | 382 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,549 | 36,842 | FY 2019 |
| O3 | Small Diameter Water Main Rehab 11 | FY 2014 | Active | 13,054 | 4,082 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17,136 | 38,957 | FY 2018 |

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| DISTRIBUTION SYSTEMS, CONT. | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|---|--|---------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------|------------|
| PK | Large Meter Vault And Piping Improve | FY 2016 | Active | \$461 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$461 | \$980 | FY 2017 |
| S3 | Large Valve Replacement (Contract 3-7) | FY 1999 | Active | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 23,100 | FY 2017 |
| S5 | Large Dia Wtrmain Int. Repairs | FY 2001 | Active | 449 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 449 | 16,972 | FY 2017 |
| KJ | Small Diameter Water Main Rehab 23 | FY 2026 | New | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,134 | 7,134 | 53,720 | FY 2030 |
| TOTAL DISTRIBUTION SYSTEMS BUDGETS | | | | \$30,148 | \$28,847 | \$40,047 | \$32,416 | \$28,660 | \$36,427 | \$44,699 | \$52,312 | \$58,953 | \$59,424 | \$411,932 | \$1,116,878 | |

| LEAD PROGRAM | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|-----------------------------------|----------------------------------|---------|--------|----------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------|
| BW | Lead Service Replacement Program | FY 2003 | Active | \$1,050 | \$720 | \$1,345 | \$1,820 | \$2,063 | \$2,321 | \$2,537 | \$2,536 | \$2,964 | \$1,112 | \$18,468 | \$208,940 | FY 2026 |
| TOTAL LEAD PROGRAM BUDGETS | | | | \$1,050 | \$720 | \$1,345 | \$1,820 | \$2,063 | \$2,321 | \$2,537 | \$2,536 | \$2,964 | \$1,112 | \$18,468 | \$208,940 | |

| ON-GOING | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|-------------------------------|-----------------------------|---------|--------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------|
| CC | FY2012 - DWS Water Projects | FY 2012 | Closed | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$8,282 | FY 2016 |
| CP | FY2013 - DWS Water Projects | FY 2013 | Closed | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,830 | FY 2015 |
| D5 | FY2014 - DWS Water Projects | FY 2014 | Active | 889 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 889 | 10,147 | FY 2017 |
| DG | FY2015 - DWS Water Projects | FY 2015 | Active | 1,648 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,648 | 9,630 | FY 2017 |
| DY | FY2016 - DWS Water Projects | FY 2015 | Active | 1,399 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,399 | 9,630 | FY 2017 |
| FK | FY2017 - DWS Water Projects | FY 2016 | Active | 6,707 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,803 | 9,630 | FY 2018 |
| GS | FY2018 - DWS Water Projects | FY 2018 | Active | 0 | 6,790 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,896 | 9,630 | FY 2019 |
| HY | FY2019 - DWS Water Projects | FY 2019 | Active | 0 | 0 | 7,415 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 7,523 | 9,630 | FY 2020 |
| JA | FY2020 - DWS Water Projects | FY 2020 | Active | 0 | 0 | 0 | 6,835 | 840 | 0 | 0 | 0 | 0 | 0 | 7,675 | 9,630 | FY 2021 |
| KW | FY2021 - DWS Water Projects | FY 2021 | Active | 0 | 0 | 0 | 0 | 6,396 | 1,194 | 0 | 0 | 0 | 0 | 7,590 | 9,630 | FY 2022 |
| KX | FY2022 - DWS Water Projects | FY 2022 | Active | 0 | 0 | 0 | 0 | 0 | 6,081 | 1,142 | 0 | 0 | 0 | 7,222 | 9,664 | FY 2023 |
| KY | FY2023 - DWS Water Projects | FY 2023 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 6,224 | 1,147 | 0 | 0 | 7,371 | 10,150 | FY 2024 |
| KZ | FY2024 - DWS Water Projects | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,588 | 1,203 | 0 | 7,791 | 10,452 | FY 2025 |
| L1 | FY2025 - DWS Water Projects | FY 2025 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,804 | 1,207 | 8,011 | 10,780 | FY 2026 |
| L2 | FY2026 - DWS Water Projects | FY 2026 | New | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,129 | 8,129 | 11,890 | FY 2027 |
| TOTAL ON-GOING BUDGETS | | | | \$10,643 | \$6,886 | \$7,521 | \$6,944 | \$7,235 | \$7,275 | \$7,366 | \$7,735 | \$8,007 | \$9,336 | \$78,948 | \$147,604 | |

| PUMPING FACILITIES | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|---------------------------|--------------------------------------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|----------|------------|
| M6 | Rehab. Bryant St. Pump Sta. | FY 1999 | Closed | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$61,153 | FY 2016 |
| AY | Upgrades To Ft. Reno Pumping Station | FY 2002 | Active | 910 | 341 | 294 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,544 | 13,549 | FY 2019 |
| F8 | 16th & Alaska Ave Pump Sta Upgrades | FY 2010 | Active | 72 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77 | 4,879 | FY 2018 |
| FD | Water Fac Security System Upgrades | FY 2010 | Active | 89 | 250 | 263 | 148 | 0 | 0 | 0 | 0 | 0 | 0 | 750 | 2,067 | FY 2020 |
| FH | Discharge Piping Bryant St. Pump Sta | FY 2009 | Active | 144 | 12 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 165 | 14,279 | FY 2019 |
| HA | DWS Water Pumping Project | FY 2010 | Active | 173 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 173 | 1,460 | FY 2017 |

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| PUMPING FACILITIES, CONT. | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
|---|--|---------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------------|------------|
| HI | Bryant Street Pump Station Phase III | FY 2020 | Active | \$0 | \$0 | \$0 | \$43 | \$86 | \$199 | \$1,025 | \$2,539 | \$0 | \$0 | \$3,892 | \$5,920 | FY 2024 |
| HR | Anacostia Pump Sta Improvements Ph II | FY 2021 | Active | 0 | 0 | 0 | 0 | 43 | 154 | 323 | 2,212 | 391 | 0 | 3,123 | 4,700 | FY 2025 |
| HV | Bryant St PS - Spill Header Flow Control | FY 2013 | Active | 17 | 15 | 842 | 2,077 | 370 | 0 | 0 | 0 | 0 | 0 | 3,321 | 6,502 | FY 2021 |
| JB | Bryant Street PS Improvements - Ph II | FY 2012 | Active | 515 | 940 | 247 | 2,574 | 1,418 | 0 | 0 | 0 | 0 | 0 | 5,694 | 11,736 | FY 2021 |
| LT | Water System SCADA | FY 2014 | Active | 395 | 165 | 1,324 | 2,109 | 713 | 0 | 0 | 0 | 0 | 0 | 4,706 | 8,137 | FY 2021 |
| LU | Water Facilities Security Sys Upgrades 2 | FY 2016 | Active | 34 | 167 | 354 | 327 | 174 | 92 | 0 | 0 | 0 | 0 | 1,148 | 2,000 | FY 2022 |
| M7 | Replacement Of Anacostia PS | FY 2002 | Active | 250 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 301 | 33,434 | FY 2018 |
| OR | Fort Reno PS Improvements Ph II | FY 2021 | Active | 0 | 0 | 0 | 0 | 49 | 173 | 280 | 2,828 | 974 | 0 | 4,304 | 6,430 | FY 2025 |
| PS | Existing Water Facilities Bldg Optimization | FY 2020 | Active | 0 | 0 | 0 | 145 | 217 | 45 | 0 | 0 | 0 | 0 | 408 | 695 | FY 2022 |
| S6 | West Venturi Meter - Bryant St Pumping Station | FY 2018 | New | 0 | 13 | 61 | 338 | 103 | 0 | 0 | 0 | 0 | 0 | 515 | 940 | FY 2021 |
| TOTAL PUMPING FACILITIES BUDGETS | | | | \$2,598 | \$1,958 | \$3,395 | \$7,761 | \$3,173 | \$664 | \$1,627 | \$7,579 | \$1,365 | \$0 | \$30,120 | \$177,881 | |
| DDOT | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
| B0 | FY2010 - DDOT Water Projects | FY 2010 | Active | \$145 | \$6 | \$1 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$152 | \$17,171 | FY 2019 |
| BN | FY2011 - DDOT Water Projects | FY 2011 | Active | 388 | 375 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 828 | 8,738 | FY 2019 |
| CJ | FY2012 - DDOT Water Projects | FY 2008 | Active | 167 | 135 | 122 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 424 | 6,474 | FY 2019 |
| CM | FY2013 - DDOT Water Projects | FY 2012 | Active | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130 | 1,549 | FY 2017 |
| TOTAL DDOT BUDGETS | | | | \$830 | \$516 | \$188 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,534 | \$33,933 | |
| STORAGE FACILITIES | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
| FA | Water Storage Facility Upgrades | FY 2009 | Active | \$1,871 | \$1,237 | \$2,970 | \$3,420 | \$300 | \$0 | \$0 | \$0 | \$0 | \$0 | \$9,798 | \$36,137 | FY 2021 |
| HW | Rehabilitation Of Elevated Water Tanks | FY 2020 | Active | 0 | 0 | 0 | 105 | 305 | 758 | 2,103 | 1,292 | 541 | 0 | 5,104 | 7,000 | FY 2025 |
| MA | St. Elizabeth Water Tank | FY 2002 | Active | 5,124 | 6,568 | 3,527 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15,219 | 36,883 | FY 2019 |
| MQ | 2mg 4th High Storage Tank | FY 2004 | Active | 643 | 226 | 0 | 321 | 418 | 502 | 1,664 | 1,930 | 0 | 0 | 5,705 | 9,580 | FY 2024 |
| MR | 2nd High Water Storage | FY 2009 | Active | 89 | 41 | 115 | 515 | 359 | 426 | 1,422 | 6,172 | 1,814 | 0 | 10,953 | 16,764 | FY 2025 |
| TOTAL STORAGE FACILITIES BUDGETS | | | | \$7,728 | \$8,072 | \$6,612 | \$4,361 | \$1,382 | \$1,685 | \$5,188 | \$9,395 | \$2,354 | \$0 | \$46,779 | \$106,364 | |
| PROGRAM MANAGEMENT | | Start | Status | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total | Lifetime | Completion |
| KV | Water Program Mgt. Services 2F | FY 2019 | Active | \$0 | \$0 | \$1,705 | \$3,801 | \$6,021 | \$6,286 | \$4,095 | \$2,284 | \$0 | \$0 | \$24,192 | \$30,610 | FY 2024 |
| LB | Water Program Mgt. Services 2G | FY 2024 | Active | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,902 | 4,572 | 7,043 | 13,517 | 35,480 | FY 2029 |
| LQ | Water Service Area Asset Management | FY 2013 | Active | 1,304 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,304 | 5,000 | FY 2017 |
| ME | Water Sys Program Management Services | FY 1999 | Active | 4,519 | 4,739 | 3,335 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12,593 | 30,113 | FY 2019 |
| TOTAL PROGRAM MANAGEMENT BUDGETS | | | | \$5,823 | \$4,739 | \$5,040 | \$3,801 | \$6,021 | \$6,286 | \$4,095 | \$4,186 | \$4,572 | \$7,043 | \$51,606 | \$101,203 | |
| TOTAL WATER BUDGETS | | | | \$58,819 | \$51,738 | \$64,149 | \$57,102 | \$48,534 | \$54,658 | \$65,512 | \$83,744 | \$78,217 | \$76,915 | \$639,387 | \$1,892,803 | |



Maintenance Services



DC Water Quench Buggy



Washington Aqueduct

| | FY 2017 - FY 2026 Disbursement Plan | | | | | | | | | | 10-Yr Total | Lifetime Budget |
|---------------------|-------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|
| | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | | |
| CAPITAL EQUIPMENT | 54,949 | 32,897 | 26,043 | 26,551 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 193,119 | 193,119 |
| WASHINGTON AQUEDUCT | 10,896 | 11,768 | 10,547 | 11,840 | 13,911 | 10,932 | 11,041 | 10,969 | 10,787 | 9,516 | 112,207 | 112,207 |
| TOTAL | \$65,845 | \$44,665 | \$36,590 | \$38,391 | \$22,690 | \$19,712 | \$19,821 | \$19,748 | \$19,567 | \$18,296 | \$305,326 | \$305,326 |

(\$ in thousands)

OVERVIEW

Additional Capital Programs is a subset of the CIP comprised of Capital Equipment and the Washington Aqueduct.

Capital Equipment – This category includes capital purchases that have a life of at least three years and an individual component cost of \$5,000 or more. The current capital equipment disbursement budget includes the following cluster groups:

- **Blue Plains** – This group is comprised of the Departments of Wastewater Operations, Process Engineering, and Maintenance Services. These departments’ activities are within the Blue Plains AWWTP. Activities/purchases include: major pump rebuild/replacements, large electric motors, high priority rehabilitation program, centrifuge rebuild/replacements, membrane diffuser/mechanical replacements, electrical replacements, lab equipment, process computer control systems, actuators, flow meters, and programmable logic controllers.

OVERVIEW, CONT.

- **Finance, Accounting and Budget** – Capital equipment projects within this cluster are primarily for the enhancements to DC Water’s existing financial and payroll software solutions. This group also manages reserve funds to support additional capital equipment needs throughout DC Water.
- **Customer Care and Operations** – This group is comprised of the Departments of Customer Service, Distribution and Conveyance Systems, Water Services, and Sewer Services. Work within this group is for rehabilitating and replacing equipment outside of Blue Plains in the distribution and collection systems. Activities/purchases include: pipes/fittings, manhole covers/frames, pumps, flow meters, catch basins, sewer cameras, cured-in-place pipe, locators, emergency generators, water mains, service lines, valves, water sample lab equipment, backflow preventers, SCADA hardware, and fire hydrant custodial locks. In addition to these items, this group supports replacement of residential and commercial water meters through the Automated Meter Reading (AMR) and On-going Replacement Programs.
- **Independent Offices** – Capital equipment projects within this cluster are primarily for infrastructure projects for the Department of Information Technology (IT). Activities/purchases include: computer replacements, cabling, radios, uninterruptible power system, server hardware, SCADA core switches, and telephony upgrades. In addition to infrastructure, IT also manages enterprise technology projects as approved by the IT Steering Committees.
- **Support Services** – This group is comprised of capital equipment activities for the Departments of Facilities, Security and Fleet Management. Activities/purchases include: cameras, card readers, door/window/hatch sensors, fence-line detection systems, vehicles, buses, vac-trucks, boats, backhoes, cranes, trailers, forklifts, HVAC systems, fire suppression systems, elevators, plumbing, rollup doors, photocopiers, appliances, furniture, fixtures, signage, roofing, and general facility improvements.

Washington Aqueduct – The Washington Aqueduct, managed by the U.S. Army Corps of Engineers (USACE), provides wholesale water treatment services to DC Water and two wholesale customers in Northern Virginia, Arlington County and Fairfax Water. DC Water purchases approximately 73 percent of the water produced by the Aqueduct’s two treatment facilities, the Dalecarlia and McMillan Treatment Plants, and thus is responsible for approximately 73 percent of the Aqueduct’s operating and capital costs. Under federal legislation and a memorandum of understanding enacted in 1997 and updated in 2013 when Fairfax Water replaced the City of Falls Church, DC Water and the Aqueduct’s wholesale customers in Northern Virginia have a much greater role in oversight of the Aqueduct’s operations and its Capital Improvement Program than prior to 1997. The Aqueduct’s CIP is divided into six primary areas, with specific projects under each area.

- Dalecarlia Plant
- Aqueduct Wide
- McMillan Plant
- Appurtenant Transmission and Storage Facilities
- Advanced Treatment

The USACE, in accordance with Federal procurement regulations, requires DC Water to remit cash in an amount equal to the total project cost in advance of advertising contracts, and these funds are transferred immediately to a USACE/U.S. Treasury account to be drawn down during the execution of the project, through completion, with no interest going to DC Water. Over the years, extensive discussions with the U.S. Office of Management and Budget (OMB) and the USACE resulted in a proposal in the President’s FY 2006 and FY 2007 budgets that would allow Aqueduct customers to deposit funds for any projects required by their NPDES permit (including the residuals project) to a separate escrow account, allowing the Aqueduct customers to retain interest on these funds. The proposal was

OVERVIEW, CONT.

submitted in May 2006 to the Senate and House. During FY 2006, the USACE briefed the Senate Environment and Public Works Committee staff and in conjunction with DC Water briefed the Senate Homeland Security and Government Affairs committee staff. Additionally, DC Water and Washington Aqueduct staff provided DC Delegate Norton's office with the Administration's proposal. Neither of the Senate committees acted on the proposal.

We continue to pursue other options that would be more favorable to DC Water, including transferring dollars on a phased basis, utilizing taxable bonds, or taxable commercial paper. In the past, some of these options have not been viewed favorably by the U.S. Treasury, but we will continue our outreach efforts to Congressional staff, federal agencies and the Corps on this critical issue. We expect to develop a more efficient financing system in the near future.

OPERATIONAL IMPACT OF MAJOR CAPITAL PROGRAMS

Automated Meter Reading (AMR) Replacement Program - This program aims to replace approximately 90,000 small water meters throughout the city. The program started in FY 2016 and is expected to be completed within the next two years. Data received from the water meters will better serve DC Water customers by providing timely and accurate meter reads for billing information.

Additional Capital Programs

10-Year Disbursement Plan & Lifetime Budget by project, \$ in thousands

| CAPITAL EQUIPMENT | | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | 10-Yr Total |
|--|-----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| BLUE PLAINS | | | | | | | | | | | | |
| EQP4710 | Wastewater Operations | \$110 | \$110 | \$110 | \$110 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$440 |
| EQP4730 | Wastewater Process Engineering | 1,000 | 1,000 | 500 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 3,000 |
| EQP4830 | Maintenance Services | 3,000 | 3,000 | 3,000 | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 | 12,000 |
| | Subtotal | 4,110 | 4,110 | 3,610 | 3,610 | 0 | 0 | 0 | 0 | 0 | 0 | 15,440 |
| FINANCE, ACCOUNTING & BUDGET | | | | | | | | | | | | |
| EQP2410 | Finance, Accounting & Budget | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 350 |
| EQP2411 | Reserve Fund | 11,158 | 7,800 | 7,692 | 3,000 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 82,329 |
| | Subtotal | 11,508 | 7,800 | 7,692 | 3,000 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 82,679 |
| CUSTOMER CARE & OPERATIONS | | | | | | | | | | | | |
| EQP2340 | Customer Service | 21,898 | 6,041 | 2,618 | 2,618 | 0 | 0 | 0 | 0 | 0 | 0 | 33,175 |
| EQP4210 | Distribution & Conveyance Systems | 925 | 625 | 1,300 | 1,200 | 0 | 0 | 0 | 0 | 0 | 0 | 4,050 |
| EQP4410 | Water Services | 425 | 425 | 350 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 1,550 |
| EQP4610 | Sewer Services | 250 | 250 | 250 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 1,000 |
| | Subtotal | 23,498 | 7,341 | 4,518 | 4,418 | 0 | 0 | 0 | 0 | 0 | 0 | 39,775 |
| INDEPENDENT OFFICES | | | | | | | | | | | | |
| EQP2110 | IT Infrastructure | 2,560 | 2,290 | 2,700 | 2,500 | 0 | 0 | 0 | 0 | 0 | 0 | 10,050 |
| EQP2115 | IT Enterprise Technology | 7,900 | 6,270 | 3,000 | 8,500 | 0 | 0 | 0 | 0 | 0 | 0 | 25,670 |
| | Subtotal | 10,460 | 8,560 | 5,700 | 11,000 | 0 | 0 | 0 | 0 | 0 | 0 | 35,720 |
| SUPPORT SERVICES | | | | | | | | | | | | |
| EQP3410 | Facilities Management | 1,690 | 1,690 | 1,690 | 1,690 | 0 | 0 | 0 | 0 | 0 | 0 | 6,760 |
| EQP3610 | Security | 849 | 563 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,412 |
| EQP5610 | Fleet Management | 2,834 | 2,833 | 2,833 | 2,833 | 0 | 0 | 0 | 0 | 0 | 0 | 11,333 |
| | Subtotal | 5,373 | 5,086 | 4,523 | 4,523 | 0 | 0 | 0 | 0 | 0 | 0 | 19,505 |
| TOTAL CAPITAL EQUIPMENT | | \$54,949 | \$32,897 | \$26,043 | \$26,551 | \$8,780 | \$8,780 | \$8,780 | \$8,780 | \$8,780 | \$8,780 | \$193,119 |
| WASHINGTON AQUEDUCT | | 10,896 | 11,768 | 10,547 | 11,840 | 13,911 | 10,932 | 11,041 | 10,969 | 10,787 | 9,516 | 112,207 |
| TOTAL ADDITIONAL CAPITAL PROGRAMS | | \$65,845 | \$44,665 | \$36,590 | \$38,391 | \$22,690 | \$19,712 | \$19,821 | \$19,748 | \$19,567 | \$18,296 | \$305,326 |

PROJECT DETAIL DEFINITIONS

Service Area Title - Currently, there are eight defined project service areas in DC Water's CIP: Non Process Facilities, Wastewater Treatment, Combined Sewer Overflow, Stormwater, Sanitary Sewer, Water, Capital Equipment, and Washington Aqueduct. The service area categorization groups together similar projects based on facility location and type of work being done in the project.

Program Title - A further categorization within the service area groups projects by type of process. For example, in the Wastewater Treatment Service Area, there are four programs: Liquid Processing, Plantwide, Solids Processing and Enhanced Nitrogen Removal Facilities.

Project ID/Project Title - Project ID is the alpha numeric code unique to each project. The project title reflects the descriptive name given to the project.

Managing Department - Lists the department or organization responsible for managing the project. The majority of the projects in DC Water's CIP are managed by an internal DC Water operating department. DC Water's CIP also includes some projects which are managed by outside organizations. It is advantageous for DC Water to coordinate some of its capital work on the water and sewer infrastructure with the District's Department of Transportation (DDOT). The funding required for DC Water's work is included in the CIP, but those projects are managed by DDOT. Approximately 73 percent of the Washington Aqueduct's capital program is funded by DC Water, but the U.S. Army Corps of Engineers actually manages those projects.

EPMC - Indicates which projects receive Engineering Program Management Consultant costs.

Priority - DC Water engages in and prioritizes capital projects based on specific criteria. A project comprises of one or more jobs which, in turn, have individual priorities. Although projects may have more than one priority associated with it, the Priority mentioned on the capital project detail is the one that has the largest budgeted dollars associated with it. The following is a list of definitions of the priorities shown on the individual project sheets:

- **1A. Court Ordered, Stipulated Agreements, Regulatory Requirements, Etc.** - These are the projects that are undertaken to comply with court orders, stipulated agreements, regulatory issues, and the National Pollutant Discharge Elimination System (NPDES).
- **2A. Health and Safety** - These are projects that are required to eliminate or mitigate impact on public health or safety. These projects are also required to ensure that there is no failure to comply with DC Water's NPDES permit requirements.
- **2B. Board Policy, DC Water's Commitment to Outside Agencies** - These are projects that are undertaken to comply with a policy that the Board may adopt as a result of its commitment to outside Agencies.
- **2C. Potential Failure/Ability to Continue Meeting Permit Requirement** - These are projects that are undertaken to construct or rehabilitate Facilities or Equipment that is in danger of failing, and that such failure may potentially endanger DC Water's ability to continue meeting permit requirements.
- **2D. High Profile, Good Neighbor Policy** - These are projects that are undertaken to remediate concerns expressed by Citizens or Public Officials.
- **3A. Good Engineering, High Pay Back, Mission/Function** - This category includes projects that are needed for rehabilitation and upgrading of facilities and infrastructure required for DC Water to fulfill its mission and function, as well as projects needed to resolve operational issues and inefficiencies. This category also recognizes cost savings in operation and maintenance.
- **3B. Good Engineering, Low Pay Back, Mission/Function Over Long Term** - This category includes projects that are needed for rehabilitation and upgrading of facilities and infrastructure, but have a lower priority than projects in 3A above, yet help DC Water to fulfill its mission over the long term.

PROJECT DETAIL DEFINITIONS, CONT.

Project Description - General description of the work to be done within the project.

Impact on Operations - Describes the anticipated impact on DC Water's operations when the project is completed.

Start/Completion Project Dates - Anticipated dates are shown.

Effective Funding by User - Lists the anticipated project funding, by source and is based on the current Intermunicipal Agreement (IMA) and anticipates EPA funding where grants have been previously approved or in anticipation of that approval.

Previous & Current Approved Lifetime Budgets - The full project budget is approved and reviewed each year by DC Water's Board of Directors. Increases or decreases to the total project life budget are shown, if applicable. Lifetime budgets for program management have been reduced, and project budgets increased, to reflect the allocation of costs for program management services at the conclusion of the prior fiscal year.

Allocated Labor as of FY 2016 - In-house labor from project inception through FY 2016. Labor is not included in the lifetime budget.

Disbursements/Commitments Budget - Projected disbursements and commitments for various projects are shown by fiscal year in which they are anticipated. Commitment budgets are based on total project budgets, which reflect the fully loaded, anticipated costs of a project, including project contingencies but excluding labor. Contingencies are not included when calculating disbursement budgets, however, labor is included.

FY 2017 - FY 2026

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HC - New Warehouse/Visitor/Security Facility
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2016 |

Project Description:

This project is for the construction a new central warehouse at the Blue Plains Treatment Facility. Currently material is stored in several different areas: 2nd Floor of CMF building; Supply Building No. 1; and by Maintenance Service in its various maintenance shops located on the ground level of CMF. By consolidating all material required and classifying same as inventory and storing in one central location, it will free up much needed land area at Blue Plains for planned plant projects; eliminate duplicate inventories and obsolete materials now being stored; provide the ability to track job costs with material; and assist DC Water in installation of 'best practice' inventory control.

Impact on Operations:

Efficiencies anticipated by these improvements will result in operational savings through re-structured functions and greater equipment availability.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.46% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.65% |
| Fairfax - | 8.35% |
| Loudoun/PI - | 4.54% |

| | CLOSED |
|-----------------------------------|---------------------|
| Previous Approved Lifetime Budget | \$18,373,600 |
| Current Approved Lifetime Budget | \$18,373,600 |
| Total DC Water Allocated Labor | \$650,171 |
| Total Project Cost | \$18,908,245 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 18,258 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 18,374 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: DS - New Headquarters Building ⁴
Managing Department: Office of General Manager
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2021 |

Project Description:

This project is for the design and construction of the new DC Water Administration Headquarters building. The plan is for a 135,000 + sq. ft. administrative building to provide sufficient space for current and future administrative needs. The new administrative headquarters will be constructed over the existing O Street Pump Station located off First Street SE along the Anacostia River. This new building will address the overcrowded existing administrative building located at Blue Plains Waste Water Treatment Plant, and assist in alleviating the increased traffic and parking problems now occurring due to additional staffing, visitors and construction projects. In addition, placing the building off-site would free space for plant operations.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 73.46% |
| EPA/Fed - | 0.00% |
| WSSC - | 20.70% |
| Fairfax - | 3.78% |
| Loudoun/PI - | 2.06% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$71,100,000 |
| Current Approved Lifetime Budget | \$76,100,000 |
| Lifetime Budget Increase/Decrease | \$5,000,000 |
| Allocated Labor as of FY 2016 | \$209,402 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 8,480 | 32,697 | 16,838 | 586 | 549 | 136 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 76,100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2017 - FY 2026

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: DU - Water System Laboratory Facilities
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2007 |
| Completion: | FY 2018 |

Project Description:

This project includes the conversion of available space at Bryant Street Pumping Station to laboratory facilities for the Water Quality Division of the Department of Water Services. Due to the demand in water quality monitoring and the limited space at the Fort Reno facility, the DWS Water Quality Division needs additional laboratory space. The project mainly includes the construction of laboratory benches, fume hoods, and the analytical equipment.

Impact on Operations:

This project will have an annual operating cost for maintenance of the laboratory and cost of utilities.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-----------|
| Previous Approved Lifetime Budget | \$646,747 |
| Current Approved Lifetime Budget | \$646,747 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$4,740 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 317 | 86 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 345 | 301 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HE - Bryant Street Pump Station Building Mods
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2021 |

Project Description:

Bryant Street is composed of multiple properties including the water pumping station (PS), the warehouse, the distribution building, as well as the warehouses and pipe yard at 200 Bryant Street. The sites are variously underutilized and/or in disrepair. This fact, coupled with vast and varied spaces of the facility creates an excellent opportunity to develop a multifunctional facility located centrally in the District. However, there are two critical limitations—any modification or addition must consider the historic nature of the Bryant Street PS as well as the facility’s location adjacent to Howard University and the Washington Metropolitan High School. The following modifications are proposed to assist DC Water in achieving these objectives: (1)Renovate and reorganize first floor of the PS; (2)Renovate and reorganize spaces to accommodate the following functions: Lab for Water Quality division from Fort Reno, Water and Sewer Investigation and Repair satellite crews serving central DC, and Satellite warehouse facilities and meter storage; (3)Improve HVAC/Energy Design within the PS (all floors) to include better efficiency and redundancies for emergency situations; (4)Repair roof parking ramp to Warehouse/Meter Services Building; and (5)Evaluate 200 Bryant Street for potential use(s).

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$14,370,000 |
| Current Approved Lifetime Budget | \$14,370,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 0 | 831 | 1,376 | 7,865 | 1,048 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 0 | 1,840 | 12,530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HF - Fort Reno Pump Station - Field Ops Facility West
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2023 |

Project Description:

The Fort Reno site is a seven acre industrial campus, with a collection of buildings in various states of adaptive reuse, disrepair, and/or abandon, including the historically relevant Watchman’s Tower and House. Thus, while existing conditions pose a maintenance burden, the site itself provides an opportunity to efficiently house the functions as proposed in development of a western DC satellite crew site. Establishment will consist of new construction, renovation, and strategic demolition in concert with the site’s historic character. The following modifications are proposed to assist DC Water in achieving these objectives: (1) Construct a building for a Satellite Office serving western DC; (2) Demolish existing office building; (3) Demolish abandoned pump station; (4) Remove temporary trailer; and (5) “Mothball” abandoned pump house and water tower as well as any structures requiring preservation on site

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | | | |
|--------------|---------|-----------------------------------|-------------|
| DC - | 100.00% | Previous Approved Lifetime Budget | \$3,150,000 |
| EPA/Fed - | 0.00% | Current Approved Lifetime Budget | \$3,150,000 |
| WSSC - | 0.00% | Lifetime Budget Increase/Decrease | \$0 |
| Fairfax - | 0.00% | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | 0.00% | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 0 | 0 | 0 | 187 | 571 | 1,585 | 26 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 0 | 0 | 0 | 385 | 2,765 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HH - New Fleet Management Facility
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2019 |

Project Description:

This project will relocate all Fleet operations from O Street and Main Pump stations site in order to accommodate the redevelopment plans for the District of Columbia in and around the new baseball stadium, Fleet Services will require a three (3) acre site, and the construction of a new 30,000 square foot vehicle service building. It is anticipated that all costs associated with the construction of this new facility along with any cost associated with site acquisition, will be reimbursed to DC Water by the District of Columbia.

Impact on Operations:

No significant operating cost impact.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$16,500,000 |
| Current Approved Lifetime Budget | \$11,500,000 |
| Lifetime Budget Increase/Decrease | (\$5,000,000) |
| Allocated Labor as of FY 2016 | \$73,862 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,428 | 426 | 1,143 | 6,296 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 3,600 | 0 | 500 | 7,400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HJ - COF Renovations
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2020 |

Project Description:

DC Water’s administration functions have outgrown their current home in the COF. Planning and design of new Administrative Headquarters building at the Main and O Street Campus is presently underway. Once complete, administrative functions, unrelated or non-critical to the plant’s functions will move to the new building. And functions that are presently forced to operate from remote or temporary facilities, will be properly housed in a modernized COF. The following modifications are proposed to assist DC Water in achieving these objectives: (1) Demolish IT Building, making space available for additional parking; (2) Renovate (Interior space) office areas to relocate the following programs to the modernized COF: DETS (from the CMF/Nitrification Blower Building), IT (from IT Building), Consultants (from Blue Plains trailers); (3) Renovate Facilities Department’s area; and (4) Add enlarged IT server.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | | | |
|--------------|--------|-----------------------------------|--------------|
| DC - | 68.35% | Previous Approved Lifetime Budget | \$8,872,000 |
| EPA/Fed - | 0.00% | Current Approved Lifetime Budget | \$12,904,000 |
| WSSC - | 24.75% | Lifetime Budget Increase/Decrease | \$4,032,000 |
| Fairfax - | 4.53% | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | 2.37% | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 15 | 746 | 712 | 8,109 | 1,140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 235 | 1,733 | 305 | 10,631 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: HK - CMF Renovations and Consolidation
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2023 |

Project Description:

This project will provide for the renovations and consolidation of the Central Maintenance Facility. The current design of the first floor shop areas and the mezzanine area, which is the location of lockers and kitchens (for each individual shop area), was created at the time the building was constructed and the maintenance workforce was significantly higher than what has been determined is necessary for a plant of this type and size. By consolidating these shops into smaller facilities and eliminating duplicate stored material, DC Water will be able to consolidate other functions (e.g. Facilities department functions) into this building and demolish Supply Buildings No. 1 and 2. In addition, by relocating the lockers and kitchens to the first floor, the mezzanine area can be converted into much-needed office area, that may be used by on-site project management and consulting groups. The current mezzanine floor will be doubled in size by building out over the part of the shop area below that does not need two stories.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 68.35% |
| EPA/Fed - | 0.00% |
| WSSC - | 24.75% |
| Fairfax - | 4.53% |
| Loudoun/PI - | 2.37% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$5,782,000 |
| Current Approved Lifetime Budget | \$1,750,000 |
| Lifetime Budget Increase/Decrease | (\$4,032,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 19 | 20 | 936 | 565 | 46 | 20 | 15 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 1,750 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Non Process Facilities
Program Title: Facility Land Use
Project ID/Project Title: NZ - Floatable Debris Dock Replacement
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2019 |

Project Description:

These existing facilities support one mandate of the LTCP Consent Decree, which patrols the Anacostia River to “skim” the surface clean of floatable debris passed (in part) into the river through DC Water’s combined sewer system. The existing dock facilities consist of three slips to house seven boats, one of which remains on its trailer due to lack of space. The docks are now greater than 25 years old and need to be replaced. The replacement slips (at least five) and associated new piles will allow flexibility and maneuverability of the boats, overcome the existing draft challenges of the river bottom, and most importantly, create safe conditions for the staff and their operations.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | | | |
|---------------------|---------|--|-----------|
| DC - | 100.00% | Previous Approved Lifetime Budget | \$995,000 |
| EPA/Fed - | 0.00% | Current Approved Lifetime Budget | \$995,000 |
| WSSC - | 0.00% | Lifetime Budget Increase/Decrease | \$0 |
| Fairfax - | 0.00% | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | 0.00% | | |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 7 | 176 | 406 | 254 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 300 | 0 | 695 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: TO - Secondary Treatment Fac
Managing Department: Engineering and Technical Services
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 1998 |
| Completion: | FY 2016 |

Project Description:

Project TO rebuilds the concrete sedimentation basin structures in the West Process Secondary Sedimentation Basins 1-12 to replace deteriorated concrete, railings, gratings and weirs. New sludge and scum collection equipment is provided in all twenty four East and West secondary sedimentation basins. Project also rehabilitates the process aeration blowers and motors and provides new blower support systems. This project upgrades process technology to improve treatment efficiency and increase integrity and reliability of the facilities.

Impact on Operations:

This project, in conjunction with PCCS, automates sludge and scum pumping which reduces labor for monitoring and control and eliminates the need for contractors to periodically pump scum from the basins. The project upgrades the process aeration blowers.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 30.30% |
| EPA/Fed - | 10.98% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.50% |

| | CLOSED |
|--|---------------|
| Previous Approved Lifetime Budget | \$70,603,223 |
| Current Approved Lifetime Budget | \$70,303,223 |
| Total DC Water Allocated Labor | \$2,616,286 |
| Total Project Cost | \$73,218,352 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Budget | 70,602 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 70,303 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: A2 - Liquid Processing Program Management
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2027 |

Project Description:

Program management services are provided during planning, design, and construction of upgrades to the liquid wastewater treatment process at the Blue Plains AWTP, to ensure continued reliability of the facilities and compliance with the plant's NPDES discharge permit. Program management services are required because of the comprehensive nature of the upgrades throughout the plant.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.34% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.75% |
| Fairfax - | 8.36% |
| Loudoun/PI - | 4.55% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$31,579,327 |
| Current Approved Lifetime Budget | \$49,579,327 |
| Lifetime Budget Increase/Decrease | \$18,000,000 |
| Allocated Labor as of FY 2016 | \$558,633 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 13,699 | 2,768 | 1,962 | 1,265 | 1,808 | 2,254 | 1,938 | 4,014 | 5,605 | 4,960 | 3,120 | 10 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 21,305 | 0 | 5,500 | 4,774 | 0 | 0 | 18,000 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BG - Dual Purpose Rehabilitation
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2020 |

Project Description:

This project replaces the sludge collection equipment, sludge and scum pumps, and other process equipment for the 8 Dual Purpose Sedimentation Basins. To optimize the Enhanced Nitrogen Removal process, this project also entails changes to dedicate 4 basins to nitrogen removal service and 4 basins to secondary treatment service.

Impact on Operations:

The new sludge collection equipment provides improved reliability and increased settling performance but has no significant impact on operational costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$27,658,297 |
| Current Approved Lifetime Budget | \$32,208,297 |
| Lifetime Budget Increase/Decrease | \$4,550,000 |
| Allocated Labor as of FY 2016 | \$611,311 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 23,960 | 2,942 | 494 | 1,714 | 675 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 27,658 | 1,650 | 2,900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BP - Grit Chamber Facilities Ph II
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2021 |

Project Description:

This project will serve to upgrade the East and West grit chamber buildings, structures and facilities including structural, architectural, electrical, building systems, HVAC, and mechanical/process systems and components.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$5,434,000 |
| Current Approved Lifetime Budget | \$397,000 |
| Lifetime Budget Increase/Decrease | (\$5,037,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 26 | 79 | 106 | 55 | 29 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 397 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BQ - Primary Treatment Facilities Ph II
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2024 |

Project Description:
 This project provides structural, architectural, HVAC, and electrical repairs to the primary sedimentation tanks, conduits, and head houses.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$14,625,000 |
| Current Approved Lifetime Budget | \$39,036,350 |
| Lifetime Budget Increase/Decrease | \$24,411,350 |
| Allocated Labor as of FY 2016 | \$2,061 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2 | 185 | 1,742 | 2,306 | 12,893 | 7,159 | 604 | 2,514 | 571 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,200 | 2,688 | 364 | 30,785 | 0 | 0 | 4,000 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BR - Nitrification/Denitrification Fac
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2006 |
| Completion: | FY 2023 |

Project Description:

The concept design report for ongoing Projects TK Biological Nutrient Removal and TQ Nitrification Facility Upgrade provided a comprehensive list of facilities and equipment that needed to be rehabilitated or replaced. The list of scope items was prioritized and the highest priority tasks were included in the Project TK and TQ scope of work for design and construction. Project BR provides for rehabilitating the lower priority tasks and includes major electrical rehabilitation of the entire facility.

Impact on Operations:

Maintenance and energy costs are anticipated to be reduced due to improved efficiency.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 40.68% |
| EPA/Fed - | 0.54% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$53,692,771 |
| Current Approved Lifetime Budget | \$53,692,771 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$908,264 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 40,983 | 1,986 | 2,256 | 1,781 | 643 | 1,014 | 685 | 247 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 50,469 | 0 | 0 | 3,224 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BT - Filtration/Disinfection Fac Ph II
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2008 |
| Completion: | FY 2022 |

Project Description:

This project replaces existing switchgear F1 and F2 and appurtenances, including control panels, transformers, and control panels. Also included in the project are upgrades to Electrical Buildings 10 and 11 and a new electrical building. Reliability of the power service to the Filtration and Disinfection Facility will be improved by implementation of this project.

Impact on Operations:

Energy and operational cost savings will be realized by installation of variable frequency drives.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 36.94% |
| EPA/Fed - | 4.72% |
| WSSC - | 45.50% |
| Fairfax - | 8.32% |
| Loudoun/PI - | 4.53% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$21,966,535 |
| Current Approved Lifetime Budget | \$24,966,535 |
| Lifetime Budget Increase/Decrease | \$3,000,000 |
| Allocated Labor as of FY 2016 | \$672,855 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 19,513 | 323 | 251 | 109 | 488 | 1,719 | 362 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 21,967 | 0 | 0 | 0 | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BV - RWWPS No. 2 Upgrades
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2021 |

Project Description:

This project will upgrade the aging electrical equipment in the Raw Wastewater Pump Station 2 that has been exposed to hydrogen sulfide gas resulting in accelerated equipment deterioration from corrosion. This project will also replace equipment that is beyond its useful life and will relocate sensitive equipment to a less corrosive environment to maintain the investment in the equipment.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$42,687,424 |
| Current Approved Lifetime Budget | \$42,695,794 |
| Lifetime Budget Increase/Decrease | \$8,370 |
| Allocated Labor as of FY 2016 | \$196,695 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,972 | 5,353 | 7,539 | 2,965 | 202 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 41,721 | 975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: DA - DWT Research / Pilot Projects
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2006 |
| Completion: | FY 2017 |

Project Description:
 This project is to conduct research and pilot work performed by the Department of Wastewater Treatment (DWT) and the Department of Engineering Services (DETS) in an effort to help DC Water, more cost effectively, address pending future regulations for nutrient removal and wet weather treatment.

Impact on Operations:
 This project has no impact on current operations or operating budgets but has the potential to minimize additional operating costs resulting from the new processes required at Blue Plains. The research should identify the most appropriate and cost effective technologies that use less energy and chemicals.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 43.71% |
| EPA/Fed - | 0.00% |
| WSSC - | 43.90% |
| Fairfax - | 8.03% |
| Loudoun/PI - | 4.37% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$4,113,535 |
| Current Approved Lifetime Budget | \$4,113,535 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$78,538 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 4,113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 4,114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: IX - Headworks HVAC Rehab
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2021 |

Project Description:

This project provides for modifications to the HVAC components of the Headworks Buildings including: Grit Chamber Building 1, Grit Chamber Building 2, Raw Wastewater Pumping Station 1, Raw Wastewater Pumping Station 2, East Process Screens Facility, Grit and Screenings Loading Station 1, Grit and Screenings Loading Station 2. These modifications include replacement of foul air duct work using materials more suitable for corrosive environments, additional fans and ducts to capture foul air and direct the foul air to the existing odor scrubbers, correct deficiencies in the concept of the existing HVAC system and provide updated air flow diagrams. The required facilities may require the construction of additional odor scrubber capacity.

Impact on Operations:

Reduction of odors and exposure to hydrogen sulfide (H2S) will improve equipment life and greatly improve working conditions for employees.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|----------------|
| Previous Approved Lifetime Budget | \$15,892,279 |
| Current Approved Lifetime Budget | \$517,929 |
| Lifetime Budget Increase/Decrease | (\$15,374,350) |
| Allocated Labor as of FY 2016 | \$12,223 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Budget | 518 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 518 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: IY - Effluent Filter Upgrade
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2030 |

Project Description:
 This project will rehabilitate or replace effluent filters. The scope of the project includes filter bottoms, filter media, air-water backwash system and associated appurtenances as well as the control system.

Impact on Operations:
 There are no anticipated impacts on operations and maintenance costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$142,714,000 |
| Current Approved Lifetime Budget | \$152,204,000 |
| Lifetime Budget Increase/Decrease | \$9,490,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 517 | 1,700 | 11,075 | 4,067 | 2,585 | 8,594 | 4,673 | 5,016 | 4,883 | 10,474 | 71,302 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 2,500 | 2,300 | 19,690 | 0 | 20,000 | 0 | 1,210 | 8,902 | 91 | 2,091 | 95,420 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: IZ - Replace/Upgrade Influent Screens
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2032 |

Project Description:

This project will rehabilitate or replace fine screens for the Blue Plains wastewater influent. The scope of the project includes the fine screening equipment and associated appurtenances as well as the control system.

Impact on Operations:

There are no anticipated impacts on operations and maintenance costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$49,433,000 |
| Current Approved Lifetime Budget | \$82,148,000 |
| Lifetime Budget Increase/Decrease | \$32,715,000 |
| Allocated Labor as of FY 2016 | \$18,896 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 112 | 527 | 5,937 | 4,051 | 578 | 566 | 156 | 1,441 | 2,016 | 2,220 | 8,476 | 45,067 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,000 | 15,500 | 0 | 0 | 0 | 771 | 3,586 | 77 | 995 | 26,219 | 0 | 34,000 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: J2 - Replace/Upgrade Primary Treatment Mech.
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2031 |

Project Description:
 The project will rehabilitate or replace collector mechanisms in the Primary Sedimentation Tanks at Blue Plains. The scope of the project includes the fine collector mechanisms and associated appurtenances as well as the control system.

Impact on Operations:
 There will be no significant impact on operations and maintenance.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$10,750,000 |
| Current Approved Lifetime Budget | \$18,750,000 |
| Lifetime Budget Increase/Decrease | \$8,000,000 |
| Allocated Labor as of FY 2016 | \$549 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 26 | 83 | 7,647 | 316 | 317 | 858 | 493 | 158 | 0 | 0 | 6,001 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 400 | 0 | 10,000 | 350 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 6,000 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: J6 - Deammonification Project
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2024 |

Project Description:

This project entails a large scale demonstration of an ammonia-nitrogen removal process (deammonification/nitrite shunt) and, if that proves successful, also the full scale implementation of that process in the existing tanks at Blue Plains AWTP. The deammonification/nitrite shunt process has potential to achieve significant savings in power and chemicals compared to the present nitrification/denitrification processes used to meet current and future total nitrogen limits. The existing process requires the addition of methanol as a carbon source in the denitrification process but the deammonification/nitrite shunt process would greatly reduce the methanol demand and therefore offer potentially significant operational cost savings. The funding for this project is currently limited to the initial research lab and pilot scale testing phases.

Impact on Operations:

This project is not anticipated to have a significant impact on maintenance or operations costs during the study phase; however, deammonification could lead to significant operational savings by reducing the need for methanol or another more costly carbon sources (e.g. ethanol).

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$1,493,000 |
| Current Approved Lifetime Budget | \$3,493,000 |
| Lifetime Budget Increase/Decrease | \$2,000,000 |
| Allocated Labor as of FY 2016 | \$4,865 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 334 | 0 | 0 | 18 | 211 | 1,176 | 1,190 | 235 | 34 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 230 | 0 | 0 | 1,263 | 0 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: LC - Effluent Disinfection Upgrades
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2026 |
| Completion: | FY 2033 |

Project Description:

This project involves construction of revised and improved disinfection process equipment based upon industry experience since the last time that the chemical feed systems for disinfection were installed in 2004.

Impact on Operations:

Without this upgrade in place, operations will have increasing difficulties in meeting regulatory requirements for disinfection.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$8,011,000 |
| Current Approved Lifetime Budget | \$8,011,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 7,278 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 770 | 7,241 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: OZ - Grit Chambers 1 & 2 Upgrades
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2021 |

Project Description:

This project will provide funding for short and long term improvements to Grit Chambers 1 and 2 to address immediate safety needs of the facilities, support currently funded capital projects, support the continuation of work previously initiated and completed through the High Priority Program, and accommodate future process “tune ups” and capital improvements in order to maintain operational efficiency and performance.

Impact on Operations:

The potential for diminished maintenance of the grit chamber facilities could directly affect operational performance which, in an extreme case could result in the potential for non-compliance with NPDES Permit requirements and limits.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$11,000,000 |
| Current Approved Lifetime Budget | \$18,500,000 |
| Lifetime Budget Increase/Decrease | \$7,500,000 |
| Allocated Labor as of FY 2016 | \$1,372 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 269 | 828 | 2,761 | 6,845 | 1,824 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 6,000 | 0 | 0 | 12,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: PD - Secondary East & West Upgrades
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2024 |

Project Description:

This project will provide funding for short and longer term improvements for the Secondary Reactors/Sedimentation Basin Upgrades to reduce chemical costs, and accommodate future process “tune ups” and capital improvements in order to maintain operational efficiency and performance. Projects are also included to provide for more cost effective means for alkalinity addition and pH adjustment than are currently practiced as well as providing a safer alternative for this chemical addition.

Impact on Operations:

Changes to the chemical feed systems should result in both safer and more cost effective means to provide for both alkalinity addition and pH control.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$8,200,000 |
| Current Approved Lifetime Budget | \$10,200,000 |
| Lifetime Budget Increase/Decrease | \$2,000,000 |
| Allocated Labor as of FY 2016 | \$6,056 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 22 | 242 | 467 | 89 | 0 | 203 | 2,679 | 4,094 | 1,181 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 600 | 0 | 600 | 0 | 0 | 9,000 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: PE - Nitrification Reactor/Sediment Upgrades
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2022 |

Project Description:

This project will provide funding for the short term improvements Nitrification Reactors/Sedimentation Basin Upgrades to address immediate process control and safety needs of the facilities, maintain the integrity of concrete structures, and accommodate future process “tune ups” and capital improvements in order to maintain operational efficiency and performance.

Impact on Operations:

Implementation of this project will return/maintain the system to fully operable condition, which will allow improved process control and reduced energy consumption.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$6,750,000 |
| Current Approved Lifetime Budget | \$10,950,000 |
| Lifetime Budget Increase/Decrease | \$4,200,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 25 | 374 | 2,112 | 644 | 2,166 | 2,572 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 3,150 | 2,000 | 0 | 5,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: TF - Grit Chamber Bldg 1&2
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 1996 |
| Completion: | FY 2017 |

Project Description:

This project provides new grit removal systems consisting of traveling bridges and pumps to remove grit from the grit chambers in Grit Chamber Buildings 1 and 2. Project includes conveyance and loading systems to load the grit into transport trailers for offsite disposal. Odor Control Systems for both East and West Facilities are provided. This project is needed to replace aged equipment and upgrade process technology to improve treatment and restore integrity and reliability to the facilities.

Impact on Operations:

This project eliminates the current contract for vacuum truck cleaning of the screens and grit chambers, however, this savings is essentially offset by the cost of hauling an increased quantity of screenings and grit produced by the more efficient equipment. The project requires sodium hypochlorite to be used for odor control and increased electricity costs for the operation of new mechanical equipment.

Effective Funding by User (percent):

| | | | |
|---------------------|--------|--|--------------|
| DC - | 15.11% | Previous Approved Lifetime Budget | \$71,045,902 |
| EPA/Fed - | 26.21% | Current Approved Lifetime Budget | \$71,045,902 |
| WSSC - | 45.84% | Lifetime Budget Increase/Decrease | \$0 |
| Fairfax - | 8.38% | Allocated Labor as of FY 2016 | \$2,207,981 |
| Loudoun/PI - | 4.46% | | |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 71.041 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 71.046 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: UC - Filtration/Disinfection Fac
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2000 |
| Completion: | FY 2022 |

Project Description:

This project upgrades the Filtration and Disinfection Facility at the Blue Plains AWTP. The project upgrades the filter influent pumps, converts the filters to an air-water wash type backwash system, which eliminates the surface wash system. Projects provide new underdrains, filter media, process aeration blowers and piping, and the instruments and controls to automatically backwash filters, using the PCCS. This project upgrades process technology to improve treatment and increase reliability of the facilities.

Impact on Operations:

There are no anticipated impacts on operations and maintenance costs.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$99,485,160 |
| Current Approved Lifetime Budget | \$101,815,160 |
| Lifetime Budget Increase/Decrease | \$2,330,000 |
| Allocated Labor as of FY 2016 | \$2,518,693 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 64,301 | 837 | 428 | 12,212 | 13,424 | 678 | 43 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 66,653 | 0 | 297 | 34,865 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: UD - Raw Water Pump Stations I&2
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 1999 |
| Completion: | FY 2017 |

Project Description:

This project rehabilitates the pumps, motors, and drives in Raw Wastewater Pump Station I and replaces the smallest pump with a larger 80 mgd pump. The project also repairs or replaces the pump discharge conduits and provides new pump controls and pump support systems. This project rehabilitates the pumping equipment to ensure reliability of this facility.

Impact on Operations:

Project provides the capability to automate influent pumping which reduces labor required to monitor and control influent raw wastewater pumping.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$16,245,380 |
| Current Approved Lifetime Budget | \$15,838,083 |
| Lifetime Budget Increase/Decrease | (\$407,297) |
| Allocated Labor as of FY 2016 | \$844,407 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 15,838 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 15,838 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: B6 - Primary Sedimentation Tank Covers
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2027 |

Project Description:

This project includes the design and construction of tank covers to capture odorous off-gases from the wastewater in the primary tanks. The first stage of the project includes pilot testing to determine if covering the weirs will be adequate to reduce the odors or if the entire tank surface needs to be covered. Costs to capture and treat the captured foul air are provided in a separate project budget (B7) for installation of odor control scrubbers to treat foul air from primary sedimentation tanks.

Impact on Operations:

This project will improve environmental conditions for DC Water operations and maintenance personnel by reducing odors.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | NEW |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$43,598,000 |
| Lifetime Budget Increase/Decrease | \$43,598,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 441 | 766 | 110 | 6 | 1,865 | 1,819 | 14,542 | 16,535 | 675 | 35 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 2,000 | 0 | 0 | 3,500 | 48 | 38,050 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: B7 - Primary Sedimentation Tank Odor Scrubbers
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2032 |

Project Description:

This project includes the design and construction of air scrubbing units to treat captured odorous off-gases from the liquid surface of wastewater in the primary tanks and flowing over weirs. Project B6 Primary Sedimentation Tank Covers is proposed as a separate project which is pre-requisite to the treatment of foul air. This project, B7, addresses the treatment needs for the captured air and includes design and construction of two single-stage wet chemical (high pH only) odor scrubbers for foul air treatment on the East and West primary treatment facilities. Active foul air will be withdrawn from air tight head spaces provided by full tank coverage. Scrubbers will treat captured foul air (hydrogen sulfide and total reduced sulfur compounds) from 36 existing Primary Sedimentation Tanks.

Impact on Operations:

This project will improve environmental conditions for DC Water operations and maintenance personnel by reducing odors.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | NEW |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$45,870,000 |
| Lifetime Budget Increase/Decrease | \$45,870,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 689 | 106 | 1,795 | 39,861 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 981 | 750 | 3,695 | 40,444 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: BC - Headworks Influent Structures
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2020 |

Project Description:

This project rehabilitates the influent structures at the Blue Plains AWTP. The structures include the East Influent Sewer feeding Raw Wastewater Pump Station 1, the two West Influent Relief Sewers feeding the East Process Screens Facility and Raw Wastewater Pump Station 2 and the Equalization Conduit that connects the sewers between the influent pump stations. The structures comprise pipes and wet wells and have been in continuous service with raw wastewater from 50 to 80 years.

Impact on Operations:

This project will have minimal impact on maintenance and operations.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | NEW |
|--|-------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$5,050,000 |
| Lifetime Budget Increase/Decrease | \$5,050,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | Budget | 0 | 127 | 304 | 1,964 | 970 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | Budget | 0 | 450 | 4,550 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: 14 - Grit Removal Facilities - 20 Year Rebuild
Managing Department: Department of Wastewater Engineering
EPMC: Biosolids Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2026 |
| Completion: | FY 2031 |

Project Description:
 The last upgrade to grit removal facilities was completed in 2005. These facilities have a useful life of 20 years.

Impact on Operations:
 Rehabilitation prior to the end of the facilities useful lives would reduce maintenance costs if the rehabilitation project were not implemented.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | NEW |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$52,500,000 |
| Lifetime Budget Increase/Decrease | \$52,500,000 |
| Allocated Labor as of FY 2016 | \$0 |

| | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
|-----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Disbursements Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,997 | 47,700 |
| Commitments Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52,500 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: 15 - Raw Water Pump Stations I&2 - 20 Year Rebuild
Managing Department: Department of Wastewater Engineering
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2026 |

Project Description:

The RWWPS I pumps and motors were last rebuilt in 2007 by the RWWPS I Upgrade contract and have a useful life of 15 years. This project will replace the original pump motors and rehabilitate the pumps as well as replace the two magnetic coupling drives with variable frequency drives (VFDs).

Impact on Operations:

Rehabilitation prior to the end of the facilities useful lives would reduce maintenance costs if the rehabilitation project were not implemented.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | NEW |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$29,000,000 |
| Lifetime Budget Increase/Decrease | \$29,000,000 |
| Allocated Labor as of FY 2016 | \$0 |

| | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
|-----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Disbursements Budget | 0 | 0 | 0 | 0 | 0 | 1,426 | 5,916 | 5,957 | 6,002 | 6,032 | 967 | 0 |
| Commitments Budget | 0 | 0 | 0 | 0 | 0 | 29,000 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: 17 - Primary Treatment - 20 Year Rebuild
Managing Department: Department of Wastewater Engineering
EPMC: Biosolids Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2026 |

Project Description:

This Project is intended to be the first part of a comprehensive project that will provide the plant with the ability to seamlessly transfer power from the Biosolids Facility CHP system to critical treatment plant equipment in the event of a plant power failure. The option to break the project into two smaller projects allows the staff to have a quicker response time after the first project is complete by automating certain key components for power restoration to the backup power supply from the CHP. This first project will not provide a fully seamless load management system but will assist in the shedding of major loads to allow staff to bring the plant back online in a more manageable fashion.

Impact on Operations:

The project will result in no increase of operations costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | NEW |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$54,600,000 |
| Lifetime Budget Increase/Decrease | \$54,600,000 |
| Allocated Labor as of FY 2016 | \$0 |

| | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
|-----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Disbursements Budget | 0 | 0 | 0 | 0 | 0 | 1,088 | 6,763 | 14,135 | 14,018 | 6,615 | 4,481 | 0 |
| Commitments Budget | 0 | 0 | 0 | 0 | 0 | 54,600 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: JC - Secondary East and West - 20 Year Rebuild
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2025 |
| Completion: | FY 2032 |

Project Description:
 Upgrades to the Secondary treatment facilities were completed in 2008. Of the architectural, electrical, and ventilation systems that were not upgraded as part of the ENR-North project, these items will need to be upgraded by 2028, as they have a useful life of 20 years.

Impact on Operations:
 Rehabilitation prior to the end of the facilities useful lives would reduce maintenance costs if the rehabilitation project were not implemented.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | NEW |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$96,000,000 |
| Lifetime Budget Increase/Decrease | \$96,000,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 514 | 5,588 | 87,006 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50,000 | 0 | 46,000 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Liquid Processing
Project ID/Project Title: LF - Nitrification Reactor/Sedimentation - 20 Year Rebuild
Managing Department: Department of Wastewater Engineering
EPMC: Biosolids Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2033 |

Project Description:
 This project will upgrade the nitrification facilities, replace the nitrification-denitrification sludge collectors, and rebuild the nitrification blowers and diffusers.

Impact on Operations:
 Rehabilitation prior to the end of the facilities useful lives would reduce maintenance costs if the rehabilitation project were not implemented.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | NEW |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$138,000,000 |
| Lifetime Budget Increase/Decrease | \$138,000,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3,526 | 8,405 | 118,982 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 138,000 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: DP - Chemical Building Enhancements
Managing Department: Engineering and Technical Services
EPMC: DETS - Engineering & Tech Services
Priority: Health Safety

| Project Dates | |
|----------------------|---------|
| Start: | FY 2008 |
| Completion: | FY 2016 |

Project Description:

This project is to enhance operability, safety, and housekeeping in the various chemical buildings throughout Blue Plains and extend the life expectancy of various elements of the chemical systems.

Impact on Operations:

This project will help avoid future impacts on the operating budget through extended life expectancy of chemical systems.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | CLOSED |
|-----------------------------------|--------------------|
| Previous Approved Lifetime Budget | \$1,891,145 |
| Current Approved Lifetime Budget | \$1,591,145 |
| Total DC Water Allocated Labor | \$24,572 |
| Total Project Cost | \$1,901,724 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,877 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,591 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: AL - Plantwide Project Program Management
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2027 |

Project Description:
 Program management services are required for planning, design, and construction of new or upgraded plantwide systems at the Blue Plains AWTP to ensure continued reliability of the facilities and compliance with the plant's NPDES discharge permit. Program management services are required because of the comprehensive nature of the upgrades throughout the plant.

Impact on Operations:
 Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.39% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.71% |
| Fairfax - | 8.36% |
| Loudoun/PI - | 4.55% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$35,801,966 |
| Current Approved Lifetime Budget | \$43,552,066 |
| Lifetime Budget Increase/Decrease | \$7,750,100 |
| Allocated Labor as of FY 2016 | \$218,557 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 10,367 | 1,782 | 1,942 | 767 | 7,134 | 3,565 | 2,312 | 2,178 | 2,194 | 2,205 | 1,387 | 4 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 16,227 | 0 | 4,228 | 5,817 | 9,280 | 0 | 8,000 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: AZ - COF Renovations
Managing Department: Facilities Management
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2002 |
| Completion: | FY 2021 |

Project Description:

This project provides for the renovation of the Central Operations Facility and will improve the functionality and appearance of the building. Project includes budget for renovation of office spaces used by the Authority's personnel, COF Windows replacement, HVAC upgrades and Landscaping, among others.

Impact on Operations:

This project has no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 71.23% |
| EPA/Fed - | 0.00% |
| WSSC - | 22.50% |
| Fairfax - | 4.12% |
| Loudoun/PI - | 2.16% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$17,690,206 |
| Current Approved Lifetime Budget | \$17,690,206 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$623,574 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 16,165 | 191 | 194 | 214 | 244 | 99 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 17,690 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: BY - Additional Chemical Systems Ph III
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2026 |

Project Description:

This project will provide additional chemical feed lines and application points for process needs such as polymer distribution in the grit chambers, polymer for spent wash water treatment, chemicals for wet weather flow treatment, and chemicals for solids recycle side stream treatment, as appropriate for each project.

Impact on Operations:

This project will increase operations and maintenance costs of the chemical feed pumps and systems.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$3,821,638 |
| Current Approved Lifetime Budget | \$3,821,638 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 20 | 0 | 0 | 0 | 0 | 100 | 399 | 795 | 856 | 517 | 404 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 3,822 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: CH - Misc Facility Projects
Managing Department: Facilities Management
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2004 |
| Completion: | FY 2021 |

Project Description:

This will rehabilitate and upgrade various facilities throughout the Wastewater Treatment Plant. Upgrades to portions of the Central Maintenance Facility, trailers for consultant office space, as well as upgrades to support security and site management are included in this project.

Impact on Operations:

This funding will help minimize out of service time for facility related repairs and keep critical safety provisions in order.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 63.11% |
| EPA/Fed - | 0.00% |
| WSSC - | 28.81% |
| Fairfax - | 5.27% |
| Loudoun/PI - | 2.81% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$8,037,490 |
| Current Approved Lifetime Budget | \$8,037,490 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$80,393 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 7,706 | 60 | 37 | 41 | 47 | 19 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 8,037 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: CV - Laboratory Upgrades
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Health Safety

| Project Dates | |
|----------------------|---------|
| Start: | FY 2006 |
| Completion: | FY 2021 |

Project Description:

This project will renovate the central laboratory building located at Blue Plains. This building was constructed around 1935 and was last renovated in the early 1980s. The project will refurbish the building interior, including floors, walls, and ceilings and replace laboratory benches, fume hoods, and the analytical equipment. This project would also abate the asbestos contained in the older building materials.

Impact on Operations:

There is no direct impact on the operating budget as a result of this project. However, upgrading of the laboratory, including repairs to doors and windows, upgrade of the heating, ventilation, and air conditioning systems will provide for energy savings, and provide a safe and improved work environment for the lab personnel.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$8,509,591 |
| Current Approved Lifetime Budget | \$8,509,591 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$185,576 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 7,955 | 1 | 2 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 8,510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: CW - Security at Blue Plains
Managing Department: Security
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2005 |
| Completion: | FY 2021 |

Project Description:

The Blue Plains Internal and External Security (formerly named Blue Plains Perimeter Security) provides a series of security upgrades for the Advanced Wastewater Treatment Plant at Blue Plains. These upgrades will improve security around the perimeter and throughout the plant, including increased security surveillance to oversee any delinquent activity inside and outside critical facilities at Blue Plains.

Impact on Operations:

This project will have no material impact on the operating budget, however minor operating costs for maintenance and monitoring of security cameras will occur in future budget years.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$8,716,761 |
| Current Approved Lifetime Budget | \$6,116,761 |
| Lifetime Budget Increase/Decrease | (\$2,600,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,161 | 399 | 1,411 | 402 | 458 | 232 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 3,117 | 0 | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: DQ - Non-OEM PLC Interfaces/Replacements
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2017 |

Project Description:

This project is to interface the non-OEM Programmable Logic Controllers (PLCs) across the plant with the Ovation control software within the PCCS. A number of PLCs were installed to provide monitoring and control of various plant systems prior to the availability of the PCCS. There are other PLCs in the system that have been supplied with process equipment by the Original Equipment Manufacturer (OEM) to control and safe-guard specific pieces of equipment, such as the influent screens, traveling grit bridges and centrifuges. This project is to provide the non-OEM PLCs across the plant the capability, with proper interfaces, to communicate with the Ovation control software within the PCCS.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$2,132,604 |
| Current Approved Lifetime Budget | \$2,132,604 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$50,485 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Budget | 1,982 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 2,133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: EI - Plantwide Painting of Steel Pipes
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2012 |
| Completion: | FY 2024 |

Project Description:

This project entails painting the steel piping throughout the Advanced Wastewater Treatment Plant at Blue Plains. The steel pipes at Blue Plains exist in a corrosive environment and require painting to protect them from corrosion. The extent of piping, especially large diameter pipes, throughout the plant is beyond the scope of typical maintenance.

Impact on Operations:

This project will prevent unforeseen repair / replacement costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$4,960,000 |
| Current Approved Lifetime Budget | \$4,960,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$557 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 61 | 0 | 0 | 0 | 0 | 1,357 | 1,462 | 1,472 | 20 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 80 | 0 | 0 | 0 | 0 | 4,880 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: EN - WWTP - Central Fire Alarm System
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Health Safety

| Project Dates | |
|----------------------|---------|
| Start: | FY 2008 |
| Completion: | FY 2017 |

Project Description:

This project entails the construction of a central fire alarm system to deliver signals from fire alarm systems throughout the Blue Plains plant to one central location. Fire alarms throughout Blue Plains sound at the building in which a fire is detected. Installation of a central fire alarm system will deliver the local fire alarms to a location at which there is coverage 24 hours per day. Therefore, a more timely call to the fire department will result in prevention of potential damage to buildings, critical infrastructure and equipment and most importantly, improve the health and safety of employees and others on-site at Blue Plains.

Impact on Operations:

This project will have no impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$3,091,609 |
| Current Approved Lifetime Budget | \$3,091,609 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$56,620 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,080 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 3,092 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: GP - I & C & Elec - EPMC
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2019 |

Project Description:

Professional services related to Instrumentation and Control (I&C) support and programming for new and upgraded facilities throughout Blue Plains. Specific tasks would include verifying that the designs are meeting DC Water standards for I&C and Electrical work, QA/QC of the designs for I&C and Electrical and review of I&C and Electrical shop drawings. This work is needed to ensure that the project is properly coordinated with DC Water standards for I&C and Electrical.

Impact on Operations:

There will be no significant impacts on operational costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$7,226,286 |
| Current Approved Lifetime Budget | \$7,226,286 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$609,191 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2,609 | 983 | 1,033 | 409 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 7,226 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: GW - Control Systems Replacement
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2028 |

Project Description:

This project will include concept design, detailed design, and installation of a system or components of the existing plant Process Control System (PCS) as the PCS reaches the end of its useful life.

Impact on Operations:

There will be significant impact on operating and maintenance budgets.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$37,000,000 |
| Current Approved Lifetime Budget | \$37,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 763 | 654 | 814 | 3,715 | 10,097 | 9,032 | 5,944 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 1,000 | 1,700 | 34,300 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: HL - DWT - Process and Operations Jobs
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2021 |

Project Description:

This project will upgrade or rehabilitate facilities and equipment through out the AWTP at Blue Plains. Examples of work to be performed, but not limited to, are upgrades to grit and screens, process service water, asbestos removal that was based on safety survey, HVAC improvements throughout the Plant.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$7,106,447 |
| Current Approved Lifetime Budget | \$7,106,447 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$72,644 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2,793 | 446 | 528 | 683 | 271 | 1,111 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 4,531 | 300 | 675 | 300 | 1,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: HU - Blue Plains Logistics
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2021 |

Project Description:

This project is comprised of activities designed to facilitate the movement of resources into, through, and out of Blue Plains, which is a particular challenge during due to several simultaneous construction projects, i.e. Enhanced Nitrogen Removal Facilities (ENRF), New Digestion Facilities and the Blue Plains Tunnel.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.34% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.74% |
| Fairfax - | 8.36% |
| Loudoun/PI - | 4.55% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$6,839,167 |
| Current Approved Lifetime Budget | \$6,942,018 |
| Lifetime Budget Increase/Decrease | \$102,851 |
| Allocated Labor as of FY 2016 | \$150,276 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 5,299 | 411 | 45 | 61 | 34 | 18 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 6,942 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: IC - Electrical Monitoring Systems
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2021 |

Project Description:

This project includes monitoring systems associated with electrical power distribution at the Advanced Wastewater Treatment Plain at Blue Plains. The activities that will be identified in this project will increase DC Water’s ability to monitor, track and assess power usage throughout the AWTP at Blue Plains. This enhanced ability will protect and enhance the current and future investment in electrical power infrastructure.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$7,250,000 |
| Current Approved Lifetime Budget | \$7,250,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$938 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 23 | 0 | 256 | 1,561 | 2,433 | 154 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 350 | 0 | 800 | 6,100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: IV - Blue Plains IT Backbone FOC Tubes
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2020 |

Project Description:
 This project includes a condition survey of existing Blue Plains' duct-bank and gallery cable usage and installation of a new Blown Fiber system throughout the Blue Plains campus to upgrade the IT enterprise fiber network with the latest in-ground infrastructure for fiber-optic/data installation.

Impact on Operations:
 The impact on operations will be moderate. Equipment automation, enterprise database, etc. will require increased bandwidth capability; therefore, a Blown Fiber Infrastructure can promptly respond to any unforeseen communication needs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$3,775,000 |
| Current Approved Lifetime Budget | \$5,475,000 |
| Lifetime Budget Increase/Decrease | \$1,700,000 |
| Allocated Labor as of FY 2016 | \$9,695 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 16 | 977 | 652 | 343 | 1,555 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,000 | 1,700 | 575 | 2,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: JF - Construction of Flood Seawall
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2028 |

Project Description:

The project is construction of a wall to prevent flooding of the Advanced Wastewater Treatment Plant at Blue Plains from the Potomac River. The flood wall will be constructed to protect the AWTP from being inundated in a flood event up to a 500-year flood elevation with 3 feet of freeboard.

Impact on Operations:

There will be no significant impact on operation or maintenance budgets.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$13,234,000 |
| Current Approved Lifetime Budget | \$13,234,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 59 | 0 | 0 | 0 | 244 | 975 | 3,489 | 5,633 | 866 | 16 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 110 | 0 | 0 | 0 | 1,213 | 368 | 11,543 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: JY - IT - Data Center
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2021 |

Project Description:

This project upgrades and expands the existing Data Center located on the third floor of the Central Operations Facility. The Data Center needs to be expanded and upgraded to increase the facility’s capacity, and maximize overall reliability and efficiency. Upgrades to the Data Center infrastructure are also needed to provide redundancy in HVAC equipment and mechanical systems, the electrical power distribution system, fire suppression system, and uninterruptible power supply (UPS) units. The objective in providing redundancy for these critical systems is to eliminate a single point of failure.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 68.35% |
| EPA/Fed - | 0.00% |
| WSSC - | 24.75% |
| Fairfax - | 4.53% |
| Loudoun/PI - | 2.37% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$3,421,954 |
| Current Approved Lifetime Budget | \$2,397,056 |
| Lifetime Budget Increase/Decrease | (\$1,024,898) |
| Allocated Labor as of FY 2016 | \$38,897 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | Budget | 2,286 | 13 | 3 | 4 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | Budget | 2,397 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: LP - Wastewater Asset Mngmt Tech Support 5
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2018 |

Project Description:

This project is to implement a comprehensive Asset Management program for Wastewater and Maintenance operations at Blue Plains. The program consists of a variety of elements, including but not limited to technology and data, maintenance and work management, reliability and condition assessment and asset life cycle management activities. Asset Management implementation is expected to take place over a five year period.

Impact on Operations:

Additional operating/maintenance costs will be required, but greater savings through improved asset life cycle costing is anticipated.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 66.63% |
| EPA/Fed - | 0.00% |
| WSSC - | 25.68% |
| Fairfax - | 5.02% |
| Loudoun/PI - | 2.66% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$10,000,000 |
| Current Approved Lifetime Budget | \$10,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$256,184 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 5,701 | 1,386 | 1,055 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: LS - Misc. Facilities Projects FY2013
Managing Department: Facilities Management
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2021 |

Project Description:

This project provides for a program of planned projects by the Department of Facilities Management for the rehabilitation, upgrade and improvement of various facilities and buildings at Blue Plains.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 56.06% |
| EPA/Fed - | 0.00% |
| WSSC - | 34.30% |
| Fairfax - | 6.27% |
| Loudoun/PI - | 3.36% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$7,138,346 |
| Current Approved Lifetime Budget | \$8,188,346 |
| Lifetime Budget Increase/Decrease | \$1,050,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,659 | 1,578 | 903 | 667 | 839 | 297 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 6,338 | 1,050 | 0 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: LX - Process Control System Upgrade
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2023 |

Project Description:
 This project addresses short-term and longer term needs of the Process Control System (PCS) for the Advanced Wastewater Treatment Plant at Blue Plains. Specifically, it includes upgrades to the system as well as development of a master plan.

Impact on Operations:
 There will be no significant impact on operating or maintenance budgets.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$4,000,000 |
| Current Approved Lifetime Budget | \$4,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 233 | 0 | 0 | 1,547 | 1,604 | 2 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 375 | 0 | 0 | 3,625 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OD - Plantwide Paving
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2026 |

Project Description:
 This project will provide for paving and roadway repair at Blue Plains for areas that are not covered by other construction projects.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$8,000,000 |
| Current Approved Lifetime Budget | \$7,990,000 |
| Lifetime Budget Increase/Decrease | (\$10,000) |
| Allocated Labor as of FY 2016 | \$19,727 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 491 | 136 | 138 | 921 | 954 | 768 | 751 | 757 | 762 | 766 | 182 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,490 | 0 | 0 | 1,500 | 5,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OE - Plantwide Drainage & Runoff
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2026 |

Project Description:
 This project will be to provide for drainage improvements and rehabilitation/replacement of existing storm water pumping stations at Blue Plains.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$6,146,000 |
| Current Approved Lifetime Budget | \$7,151,050 |
| Lifetime Budget Increase/Decrease | \$1,005,050 |
| Allocated Labor as of FY 2016 | \$8,286 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 174 | 404 | 1,255 | 1,218 | 584 | 245 | 225 | 227 | 229 | 230 | 55 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 776 | 4,375 | 500 | 0 | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OF - Process & Service Water Rehabilitation
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2021 |

Project Description:

This project includes various improvements/rehabilitation of the plant service water system (PSW). The project includes replacement of PSW valves, evaluation of the PSW piping system, and replacement of piping as appropriate.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$3,950,000 |
| Current Approved Lifetime Budget | \$3,950,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 589 | 1,903 | 497 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 800 | 3,150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OG - City Water & Sewer Upgrades at WWTP
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2022 |

Project Description:
 This project includes improvements/rehabilitation city water and city service water systems. Primarily it involves elimination of many of the backflow preventers located throughout the Plant and installation of break tanks to provide seal water.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$1,250,000 |
| Current Approved Lifetime Budget | \$1,250,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 1,535 | 551 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 1,250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OH - Plantwide Demolition
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2024 |

Project Description:
 This project includes the demolition of various systems that are no longer in service. These facilities have been taken out of service due to the various ongoing construction activities, but not demolished as part of those activities. The project is proposed as a multi-year program.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$11,100,000 |
| Current Approved Lifetime Budget | \$11,100,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 2,418 | 4,821 | 2,016 | 599 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 11,100 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OI - Plantwide Painting & Signage
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2022 |
| Completion: | FY 2024 |

Project Description:
 This project is a multi-year project to provide painting and signage within buildings and galleries, primarily for safety purposes.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|-----------|
| Previous Approved Lifetime Budget | \$450,000 |
| Current Approved Lifetime Budget | \$450,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 104 | 258 | 46 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 450 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OK - Plantwide H2S Mitigation
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2029 |

Project Description:
 This project will be to provide for implementation of projects to provide for protection of equipment subject to damage by the effects of hydrogen sulfide. Projects may include HVAC improvements, odor control improvements and/or relocation of equipment to lesser impacted areas.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$10,000,000 |
| Current Approved Lifetime Budget | \$10,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 1 | 327 | 840 | 1,514 | 1,977 | 1,536 | 2,138 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OM - Plantwide Hot Water System/ Loop Rehab
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2025 |

Project Description:

This project will provide hot water for the purpose of equipment cleaning and maintenance as well as building heat. Systems will be constructed at the East and West Grit and Screenings Facilities for the purpose of cleaning grease and debris from the screens, compactors, and other equipment on a daily basis. An evaluation will be made regarding the feasibility of installing one or more chilled water loops or repurposing existing process water lines to supply building cooling. The concept will involve / evaluate hot and chilled water production in a centralized location with appropriate storage capacity. The available excess steam from CHP will also be evaluated. Recommendations deemed acceptable will be implemented through construction.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|----------------|
| Previous Approved Lifetime Budget | \$25,770,000 |
| Current Approved Lifetime Budget | \$7,650,000 |
| Lifetime Budget Increase/Decrease | (\$18,120,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 24 | 386 | 1,212 | 832 | 467 | 728 | 1,111 | 563 | 189 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 100 | 4,550 | 0 | 0 | 0 | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: ON - Plantwide Grounding Upgrades
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2024 |

Project Description:
 This project will evaluate the various grounding systems located throughout the Blue Plains AWTP and provide for repairs or replacement where necessary.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$5,500,000 |
| Current Approved Lifetime Budget | \$5,500,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 61 | 243 | 768 | 905 | 1,615 | 899 | 12 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 446 | 82 | 4,973 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OP - Plantwide Sump Pump Rehabilitation
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2028 |

Project Description:
 This project is a multi-year project to rehabilitate and replace failing sump pumps in various places around the plant.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$2,500,000 |
| Current Approved Lifetime Budget | \$1,000,000 |
| Lifetime Budget Increase/Decrease | (\$1,500,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 317 | 299 | 196 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,000 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OQ - Plantwide Roofing Upgrades
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2025 |

Project Description:

This project will provide for immediate roof rehabilitation where damage to roofing systems has been observed and documented as well as for planned roof replacement where roofing systems have reached the end of their 20-year expected life.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$9,500,000 |
| Current Approved Lifetime Budget | \$10,000,000 |
| Lifetime Budget Increase/Decrease | \$500,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 1,160 | 2,760 | 2,767 | 1,483 | 819 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 2,000 | 8,000 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: OS - Plantwide Lighting Upgrades
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2021 |

Project Description:

This project will serve to expand and continue the program of plantwide lighting improvements through the replacement of older roadway fixtures located on Perimeter Roads North, South, and West with more efficient fixtures that match newer fixtures in other areas of the plant. As part of this project, aging cable and conduit will also be replaced thereby providing an up to date energy efficient lighting system for the roadways along the perimeter of the plant.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$3,000,000 |
| Current Approved Lifetime Budget | \$3,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 291 | 944 | 649 | 266 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: PF - Chemical System/Building Upgrades
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2023 |

Project Description:
 This project will evaluate needs, determine condition of existing chemical unloading and feed systems, and perform the necessary upgrades/rehabilitation to the existing metal salts, sodium hypochlorite, and sodium bisulfate tanks and feed systems.

Impact on Operations:
 Failure of any one of the systems would have similar impacts. Along with the health and safety impacts the failure of the sodium hypochlorite could result in insufficient disinfection, failure of the sodium bisulfate system could result in insufficient dechlorination and failure of the metal salts facility would impact the ability to remove Phosphorous, as well as impact primary clarifier performance. In each case, violation of the NPDES discharge permit is a possibility.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$22,500,000 |
| Current Approved Lifetime Budget | \$22,500,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$2,376 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 164 | 1,380 | 1,374 | 2,388 | 4,283 | 3,649 | 1,643 | 46 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 7,000 | 0 | 5,000 | 3,000 | 4,500 | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: TA - Process Computer Control System
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 1997 |
| Completion: | FY 2017 |

Project Description:

The Process Computer Control System provides monitoring and control for the Raw Wastewater Pumping Stations, Grit and Screen Facilities, Primary and Secondary Treatment Facilities, additional Chemical Systems, alternate Disinfection System, additional Dewatering Systems, Nitrification, Filtration and Disinfection Facilities, and Gravity Thickening in the first two phases of a plant-wide system. The PCCS provides monitoring and control of key process functions such as aeration, sludge pumping, and chemical feed dosing.

Impact on Operations:

The new Process Control Computer System (PCCS) assists in optimizing labor, chemical and electricity costs. The system monitors power usage and permits discretionary operation of non-critical equipment during off-peak hours. Dissolved oxygen (DO) control is provided in the Secondary and Nitrification processes to match blower operation with process air needs, thereby saving power costs. PCCS in conjunction with the Grit & Screen Facility Upgrades and Gravity Thickener Upgrade is expected to save in labor costs. PCCS in conjunction with the Primary Treatment, Secondary Treatment and Nitrification Facility Upgrade projects is expected to save in labor costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.36% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.73% |
| Fairfax - | 8.36% |
| Loudoun/PI - | 4.55% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$65,281,159 |
| Current Approved Lifetime Budget | \$65,281,159 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$2,173,550 |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 64,916 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 65,281 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: TZ - Elec Power System - Switch Gear
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2024 |

Project Description:
 This project replaces switchgear and transformers throughout Blue Plains as they reach the end of their useful lives. This project is needed to update the electrical equipment and ensure reliability of the plant processes.

Impact on Operations:
 Project has no material impact on operations costs.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 40.83% |
| EPA/Fed - | 0.39% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$59,399,213 |
| Current Approved Lifetime Budget | \$59,399,213 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$475,683 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 11,010 | 674 | 1,148 | 3,524 | 7,601 | 1,573 | 5,955 | 13,645 | 2,433 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 13,914 | 2,935 | 23 | 16,185 | 0 | 213 | 26,129 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: YD - Miscellaneous Projects
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 1999 |
| Completion: | FY 2025 |

Project Description:

This project includes the study, design, and construction of miscellaneous improvements to the Blue Plains AWTP that are not included in major capital projects. Examples of such improvements include general site, roadways, truck access, process upgrades, re-roofing of the Central Maintenance Facility, and a plant-wide odor study to identify, characterize and control on-site plant odors. This project is needed to improve conditions for plant workers, neighbors, and haulers as well as improve treatment. This also includes the high priority rehabilitation program which is used to repair and replace equipment to keep systems operational until the long term upgrade projects are completed.

Impact on Operations:

Project has no material impact on operating costs.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 38.34% |
| EPA/Fed - | 3.57% |
| WSSC - | 45.31% |
| Fairfax - | 8.28% |
| Loudoun/PI - | 4.49% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$52,066,820 |
| Current Approved Lifetime Budget | \$50,305,501 |
| Lifetime Budget Increase/Decrease | (\$1,761,319) |
| Allocated Labor as of FY 2016 | \$1,266,872 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 42,156 | 368 | 337 | 1,002 | 1,522 | 1,065 | 820 | 668 | 330 | 83 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 44,027 | 3 | 4,476 | 0 | 1,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Plantwide
Project ID/Project Title: IU - Solar Photovoltaic System
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2019 |

Project Description:

This project has the potential to install Solar Photo Voltaic (PV) Systems at Blue Plains on multiple buildings roofs, open ground along the east perimeter road, as carpports around COF, CMF, and the dock, and as custom canopy systems over the four sedimentation basins and Filtration and Disinfection Facility. Conceptual designs for these systems in that roughly 1.2MW-AC can be installed as rooftop systems, 0.5MW-AC as ground mount systems, 2.8MW-AC as carpport systems, and 10.5MW-AC as custom canopies over the basins. Associated electrical interconnections will need to be routed and connected to the DC Water electrical system.

Impact on Operations:

This project will reduce electricity costs by generating solar power.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | NEW |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$2,500,000 |
| Lifetime Budget Increase/Decrease | \$2,500,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 1 | 1,218 | 366 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 2,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: AM - Solids Processing Program Management
Managing Department: Department of Wastewater Engineering
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2027 |

Project Description:

This project provides program management services during planning, design and construction of biosolids process upgrades at the Blue Plains AWTP. These projects will ensure continued reliability of the facilities and compliance with the plant's NPDES discharge permit. Program management services are required because of the comprehensive nature of the upgrades throughout the plant.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.63% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.52% |
| Fairfax - | 8.32% |
| Loudoun/PI - | 4.53% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$16,062,724 |
| Current Approved Lifetime Budget | \$16,062,724 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$1,129,390 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 6,472 | 573 | 509 | 328 | 884 | 1,399 | 952 | 320 | 496 | 513 | 343 | 1 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 9,713 | 0 | 0 | 0 | 4,350 | 0 | 0 | 2,000 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: BX - Gravity Thickener Upgrades Ph II
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2036 |

Project Description:

The objective of this project is to design and construct the improvements needed to rehabilitate and upgrade the Primary Sludge Screening & Degritting Building (PSSDB) and the Gravity Thickeners (GT) at the Blue Plains Advanced Wastewater Treatment Plant (AWTP). The project will rehabilitate Gravity Thickeners 5 & 6 and replace equipment in Gravity Thickeners 7 - 10.

Impact on Operations:

This project will add facilities requiring operations and maintenance.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$34,487,944 |
| Current Approved Lifetime Budget | \$70,839,944 |
| Lifetime Budget Increase/Decrease | \$36,352,000 |
| Allocated Labor as of FY 2016 | \$112,051 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 5,745 | 621 | 2,068 | 8,067 | 10,517 | 5,905 | 1,898 | 0 | 0 | 0 | 0 | 19,000 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 6,168 | 1,620 | 42,652 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20,400 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: EV - Area Substation No. 6
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2008 |
| Completion: | FY 2017 |

Project Description:

This project replaces the 5 KV switchgear, Area Substation No. 4, at the south end of the Blue Plains AWTP, which services the Filtration & Disinfection Facility and Dual Purpose Sedimentation Basins with the proposed new Area Substation No. 6. This project is needed to replace obsolete electrical equipment and ensure reliability of these critical plant processes.

Impact on Operations:

This project will eliminate repeated shut-downs, resulting in savings in operating costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$22,073,974 |
| Current Approved Lifetime Budget | \$22,073,974 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$470,694 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 20,221 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 22,074 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: I2 - Biosolids Loadout Crane Rehabilitation
Managing Department: Department of Wastewater Engineering
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2016 |

Project Description:

The biosolids load-out facility uses 4 overhead-rail cranes with clamshells to transfer biosolids from the 4 bunkers to the trucks that haul biosolids for land application. These cranes need major mechanical and electrical rehabilitation. Some of the items requiring attention comprise the festoon system, hoist and grab motors, load cells, control panels, cab controls and cab air conditioning.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$4,295,991 |
| Current Approved Lifetime Budget | \$3,595,970 |
| Lifetime Budget Increase/Decrease | (\$700,021) |
| Allocated Labor as of FY 2016 | \$75,858 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,596 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 3,596 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: I3 - Biosolids Blending Development Center
Managing Department: Department of Wastewater Engineering
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2022 |

Project Description:

This project, which includes a soil mixer, a concrete pad mixing area, a covered 4 bin material storage area, a covered 4 bin blended material area, and a greenhouse, will provide a facility to blend Class A biosolids with other products such as sawdust or compost to make a commercial soil amendment product. Various blends of mixed material will be used to grow plants in the greenhouse to determine the ideal blend as a soil amendment. Staff will determine the economics of different product production, so that larger commercial-scale operations can be implemented off-site.

Impact on Operations:

There would be no impact on Plant operations from implementing this project. However, there could be a beneficial impact on Plant operating costs through reduction in long-distance hauling of biosolids.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$700,000 |
| Current Approved Lifetime Budget | \$2,500,000 |
| Lifetime Budget Increase/Decrease | \$1,800,000 |
| Allocated Labor as of FY 2016 | \$1,010 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 9 | 69 | 70 | 77 | 79 | 770 | 391 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 700 | 0 | 0 | 0 | 0 | 1,800 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: LD - Pre-Dewatering Additional Centrifuges
Managing Department: Department of Wastewater Engineering
EPMC: Biosolids Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2022 |

Project Description:

This project will provide two additional centrifuges and associated feed pumps, polymer pumps, solids chutes and odor control connections at the Main Process Train (MPT) pre-dewatering building. Space for the two additional centrifuges is available in the pre-dewatering building, which has 10 centrifuges that were installed under the Main Process Train project completed in 2015.

Impact on Operations:

The additional equipment would require additional maintenance but no new operators.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$9,170,000 |
| Current Approved Lifetime Budget | \$10,155,500 |
| Lifetime Budget Increase/Decrease | \$985,500 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 421 | 1,111 | 5,086 | 219 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 850 | 9,306 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: LE - High Strength Waste Receiving Facility
Managing Department: Department of Wastewater Engineering
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2023 |

Project Description:

Local, readily available high strength liquid wastes produced by industrial processing plants for food, beverages and pharmaceuticals among others, have been proven to enhance digester gas production. This project will provide a high strength waste receiving/processing facility on-site at Blue Plains. The facility would include 5 receiving tanks, freeze protection as well as pumps to transfer the pre screened liquid waste to either the Cambi thermal hydrolysis process or directly to the anaerobic digesters. Odor control would also be provided. These high strength wastes will be delivered by tanker trucks from the local area industries to the receiving facility at Blue Plains.

Impact on Operations:

Additional operations personnel will be required to operate the facility however the revenue generated would more than pay for the increased costs after the initial payback period.

Effective Funding by User (percent):

| | | | |
|---------------------|--------|--|---------------|
| DC - | 41.22% | Previous Approved Lifetime Budget | \$9,700,000 |
| EPA/Fed - | 0.00% | Current Approved Lifetime Budget | \$6,008,000 |
| WSSC - | 45.84% | Lifetime Budget Increase/Decrease | (\$3,692,000) |
| Fairfax - | 8.38% | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | 4.56% | | |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 194 | 500 | 2,917 | 432 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 6,008 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: XA - New Digestion Facilities
Managing Department: Department of Wastewater Engineering
EPMC: Biosolids Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 1999 |
| Completion: | FY 2019 |

Project Description:

Project provides for construction of a new advanced digestion facility capable of anaerobically digesting all biosolids generated at the Blue Plains AWTP, as called for in the Biosolids Master Plan. The anaerobic digestion process produces Class A Biosolids and reduces the volume and weight of biosolids to be transported resulting in reduced truck traffic, odor, and noise.

Impact on Operations:

The new digestion facility reduces biosolids production by half, produces a stable product for beneficial reuse, and generates excess digester gas that can supply 1/3 of the plant's electrical needs. The facility provides O&M savings beginning in FY 2015

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$547,258,540 |
| Current Approved Lifetime Budget | \$553,858,561 |
| Lifetime Budget Increase/Decrease | \$6,600,021 |
| Allocated Labor as of FY 2016 | \$13,596,292 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 529,880 | 6,352 | 627 | 3,766 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 547,135 | 1,723 | 5,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: XB - Centrifuge Thickener Facility
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 1999 |
| Completion: | FY 2017 |

Project Description:

Project upgrades the existing Dissolved Air Flotation thickening facility, in which all biological waste secondary, nitrification and denitrification sludges generated at the Blue Plains AWTP are thickened. This project provides consistent and reliable production of thickened biological sludge at the desired concentration that is required for efficient operation of the Digester Facility.

Impact on Operations:

This project provides improved process efficiency and reliability, and reduces objectionable odors.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$48,669,994 |
| Current Approved Lifetime Budget | \$48,669,994 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$2,098,619 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 48,358 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 48,670 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: XZ - Solids Processing Building / DSLF
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 1999 |
| Completion: | FY 2024 |

Project Description:

This project involves repairs to chemical systems and provides for miscellaneous improvements to the Solids Processing Building and Dewatered Sludge Loading Facility. This project replaces aged equipment to ensure integrity and reliability of the systems and facilities which results in improved performance of chemical feed systems and other solids processing operations, and improved biosolids quality. Construction of a vault and switchgear improvements at the main substation are also included in this project.

Impact on Operations:

This project could increase operations and maintenance cost depending on final study findings and determination of Clean Air requirements, if any. A study of emissions data is ongoing.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 39.99% |
| EPA/Fed - | 1.24% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$26,790,180 |
| Current Approved Lifetime Budget | \$28,690,180 |
| Lifetime Budget Increase/Decrease | \$1,900,000 |
| Allocated Labor as of FY 2016 | \$773,344 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 13,980 | 4 | 1,563 | 2,646 | 3,142 | 594 | 1,020 | 738 | 447 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 13,980 | 7,460 | 3,000 | 0 | 2,350 | 0 | 1,900 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Solids Processing
Project ID/Project Title: YZ - Digestion Facilities Site Preparation
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 1999 |
| Completion: | FY 2017 |

Project Description:

This project is comprised of two sub-projects: YZ01 Primary Sludge Screening & Degritting Wet Well Control involves installation of new controls for the primary sludge screens and the Degritting and Grinding Facility wet well at the Blue Plains AWTP; and YZ02 Digestion Facility Demolition and Site Preparation involves demolition of the decommissioned digester gas storage tank and sphere. Project YZ01 is needed to upgrade process technology to improve efficiency and reliability of sludge screening and to minimize potential for sludge spills. Project YZ02 would clear and prepare the site for future use.

Impact on Operations:

No significant operating cost impact.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$2,234,454 |
| Current Approved Lifetime Budget | \$2,234,454 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$99,529 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2,233 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 2,234 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: BI - Enhanced Nitrogen Removal North
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2008 |
| Completion: | FY 2017 |

Project Description:

This project was formally Project BI - Plantwide Fine Bubble in the Plantwide Program. The project replaces the diffusers in the Secondary Treatment process with a more efficient aeration system and rehabilitates equipment to improve reliability of the secondary treatment system to optimize the enhanced nitrogen removal process.

Impact on Operations:

This project will add facilities requiring operations and maintenance.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 30.48% |
| EPA/Fed - | 10.74% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$73,827,420 |
| Current Approved Lifetime Budget | \$75,472,420 |
| Lifetime Budget Increase/Decrease | \$1,645,000 |
| Allocated Labor as of FY 2016 | \$1,627,504 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 65,352 | 6,499 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 73,827 | 1,645 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: E8 - Enhanced Clarification Facilities
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2021 |

Project Description:

The Enhanced Clarification Facility (ECF) is part of DC Water's proposed Total Nitrogen -Wet Weather (TN/WW) Plan, which addresses the requirements of the Long Term Control Plan as well as the Chesapeake Bay Tributary Strategies for reducing nitrogen discharged into the Chesapeake Bay. The principal components of this project are grit removal and screening for influent wastewater followed by an enhanced clarification facility. The new facilities will treat excess flow during wet weather events.

Impact on Operations:

Operation of the ECF will increase operating and maintenance costs, and specifically power and chemical costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$216,424,443 |
| Current Approved Lifetime Budget | \$216,424,443 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$2,120,299 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 63,494 | 37,369 | 30,196 | 400 | 64 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 211,913 | 4,512 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: E9 - Nitrogen Removal Facilities
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2008 |
| Completion: | FY 2021 |

Project Description:

This project entails a new or expanded nutrient removal system to lower the concentration of total nitrogen in the Blue Plains effluent to 3 mg/l. The Total Nitrogen Removal Project is part of DC Water’s proposed Total Nitrogen -Wet Weather (TN/WW) Plan, which addresses the requirements of the Long Term Control Plan as well as the Chesapeake Bay Tributary Strategies for reducing nitrogen discharged into the Chesapeake Bay. The principal components of this project are this project and Project EE, Centrate Treatment Facilities. Project EE provides for a new treatment system that will remove nitrogen from the recycle stream from solids processing.

Impact on Operations:

Operation of the new system will significantly increase operating and maintenance costs. Increased chemical addition and power consumption comprise most of the cost increase.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 35.63% |
| EPA/Fed - | 5.60% |
| WSSC - | 45.83% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$271,456,742 |
| Current Approved Lifetime Budget | \$271,456,712 |
| Lifetime Budget Increase/Decrease | (\$30) |
| Allocated Labor as of FY 2016 | \$6,062,066 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 267.061 | 330 | 7 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 271.457 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: EE - Filtrate Treatment Facilities
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2021 |

Project Description:

This project provides for a new treatment system that will remove nitrogen from the recycle stream from solids processing. The Total Nitrogen Removal Project is part of DC Water’s proposed Total Nitrogen -Wet Weather (TN/WW) Plan, which addresses the requirements of the Long Term Control Plan as well as the Chesapeake Bay Tributary Strategies for reducing nitrogen discharged into the Chesapeake Bay. The principal components are the TN/WW(EE) and project E9, Total Nitrogen Removal. Project E9 entails a new or expanded nitrogen removal process to lower the concentration of total nitrogen in the Blue Plains effluent to 3 mg/l.

Impact on Operations:

Operation of the new system will significantly increase operating and maintenance costs beginning in FY 2015. Increased chemical addition and power consumption comprise most of the cost increase.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 40.28% |
| EPA/Fed - | 0.94% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$106,345,012 |
| Current Approved Lifetime Budget | \$106,345,012 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$2,596,407 |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 76.499 | 15.862 | 2.667 | 348 | 145 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 96.638 | 9.707 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: EG - Blue Plains Tunnel
Managing Department: Department of Wastewater Engineering
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2008 |
| Completion: | FY 2019 |

Project Description:

The Blue Plains Tunnel is part of DC Water's proposed Total Nitrogen - Wet Weather (TN/WW) Plan, which addresses the requirements of the Long Term Control Plan as well as the Chesapeake Bay Tributary Strategies for reducing nitrogen discharged into the Chesapeake Bay. The principal components of this project are a 23 foot diameter tunnel from Main and O Streets to Blue Plains. The Blue Plains Tunnel has been included in the draft TN/Wet Weather Plan that DC Water submitted to the USEPA. The recommended alternative in the plan removes additional nitrogen from the wastewater prior to discharge and improves the quality of discharge to the Potomac and Anacostia Rivers during wet weather events.

Impact on Operations:

Dewatering pump station costs will increase operating and maintenance costs beginning in FY 2018.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$177,380,058 |
| Current Approved Lifetime Budget | \$177,380,058 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$3,300,490 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 159,100 | 715 | 138 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 177,380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: FG - Secondary Treatment Upgrades for TN
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2029 |

Project Description:
 This project will expand Secondary Reactors 5 and 6 to double their size to provide adequate secondary treatment capacity for the AWTP at Blue Plains design capacity. This project includes a study phase to assess the most sustainable and cost-effective process to increase the secondary treatment capacity.

Impact on Operations:
 This project would improve Plant performance but would have marginal increased operational and maintenance costs.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$57,141,625 |
| Current Approved Lifetime Budget | \$57,141,625 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$56,915 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,766 | 392 | 0 | 0 | 0 | 0 | 7 | 1,300 | 916 | 11,101 | 22,446 | 11,124 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 2,257 | 0 | 0 | 0 | 0 | 0 | 144 | 3,065 | 66 | 50,328 | 0 | 1,282 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: FR - BP Tunnel Dewatering Pumping Sta
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2019 |

Project Description:

This pump station located at Blue Plains at the terminus and lowest point of the tunnel system is designed to dewater the entire contents of the tunnel system and pump it to treatment at Blue Plains treatment plant during and after a rain event.

Impact on Operations:

The dewatering pump station is an integral part of the underground storage solution to CSO control. Without a dewatering pump station a deep underground storage tunnel solution cannot be employed. Operations and maintenance costs will increase.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$33,486,972 |
| Current Approved Lifetime Budget | \$33,486,972 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$997,690 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 15,883 | 7,471 | 5,013 | 188 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 32,625 | 862 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: FS - Bolling Overflow & Diversion
Managing Department: Department of Wastewater Engineering
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2018 |

Project Description:

This project will include a diversion chamber to capture overflows from the Potomac outfall sewers and direct them into the Anacostia CSO tunnel during a rain event and an overflow structure for the Anacostia CSO tunnel when it reaches it's full capacity. It also includes the internals of the tunnel drop shaft which is constructed a part of Blue Plains tunnel project. This is one of the two overflows for the Anacostia CSO tunnel system.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.22% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.84% |
| Fairfax - | 8.38% |
| Loudoun/PI - | 4.56% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$53,404,794 |
| Current Approved Lifetime Budget | \$53,404,794 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$1,686,016 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 20,612 | 13,481 | 5,382 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 53,405 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Wastewater Treatment Service Area
Program Title: Enhanced Nitrogen Removal Facilities Project
Project ID/Project Title: LM - ENR Program Management
Managing Department: Department of Wastewater Engineering
EPMC: Nitrogen Removal Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2021 |

Project Description:

Program management services are provided during planning, design, and construction of upgrades to the nitrogen removal facilities at the Blue Plains AWTP to ensure continued reliability of the facilities and compliance with the plant's NPDES discharge permit. Program management services are required for the Enhanced Nitrogen Removal Program due to the size and scope of the projects that comprise this program.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 41.73% |
| EPA/Fed - | 0.00% |
| WSSC - | 45.44% |
| Fairfax - | 8.31% |
| Loudoun/PI - | 4.52% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$43,371,078 |
| Current Approved Lifetime Budget | \$43,381,069 |
| Lifetime Budget Increase/Decrease | \$9,991 |
| Allocated Labor as of FY 2016 | \$65,745 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 9,258 | 6,552 | 10,738 | 4,592 | 3,799 | 948 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 24,489 | 8,800 | 10,092 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: DC Clean Rivers
Project ID/Project Title: CY - Anacostia LTCP Projects
Managing Department: DC Clean Rivers Project
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2005 |
| Completion: | FY 2026 |

Project Description:

A tunnel will be constructed in 3 segments; the first extends from the Blue Plains Treatment Plant north following the route of the Potomac crosses underneath the Anacostia River north of Poplar Point and terminates at Main and O Pump Station. The second segment commences at Poplar Point crosses the Anacostia runs along the Navy Yard and terminates just south of RFK stadium. The third segment runs from the stadium north east past the national arboretum to the Rhode Island Avenue metro station and will then follow a southwest alignment along Rhode Island Avenue. Construction also includes smaller diameter pipelines or tunnels to intercept flooding in the northeast boundary area and redirect it to the tunnel. In addition, the project includes the construction of numerous surface structures such as diversion chambers to convey flow to the tunnels and overflow structures to relieve the system if overwhelmed.

Impact on Operations:

The project will result in increased operations and maintenance costs related to the tunnels, pumping station, intercepting sewer and various diversion structures. Additional operations and maintenance costs will also be incurred for monitoring the completed facilities to assess performance of the CSO controls against predictions established as part of LTCP development.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 90.58% |
| EPA/Fed - | 4.63% |
| WSSC - | 3.79% |
| Fairfax - | 0.64% |
| Loudoun/PI - | 0.35% |

| | |
|--|-----------------|
| Previous Approved Lifetime Budget | \$1,910,974,965 |
| Current Approved Lifetime Budget | \$1,910,974,965 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$15,406,830 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 977,487 | 141,949 | 76,888 | 105,731 | 148,210 | 161,495 | 73,297 | 44,791 | 3,104 | 3,485 | 632 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,294,388 | 573,701 | 9,400 | 25,007 | 0 | 0 | 0 | 0 | 8,478 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: DC Clean Rivers
Project ID/Project Title: CZ - Potomac LTCP Projects
Managing Department: DC Clean Rivers Project
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2029 |

Project Description:

The purpose of this project is to capture and provide storage for combined sewer overflows (CSOs) being discharged to the Potomac River. The project comprises construction of a tunnel approximately 3 miles long with a volume of about 58 million gallons, along the Georgetown bank of the river. Construction also includes a pumping station near the Kennedy Center to dewater the tunnel to the existing collection system for treatment of the stored CSO at Blue Plains and various diversion structures to convey combined sewer flow to the tunnel.

Impact on Operations:

The project will result in increased operations and maintenance costs related to the tunnels, pumping station, intercepting sewer and various diversion structures. Additional operations and maintenance costs will also be incurred for monitoring the completed facilities to assess performance of the CSO controls against predictions established as part of LTCP development.

Effective Funding by User (percent):

| | | | |
|--------------|--------|--|---------------|
| DC - | 94.00% | Previous Approved Lifetime Budget | \$614,100,000 |
| EPA/Fed - | 0.06% | Current Approved Lifetime Budget | \$614,099,999 |
| WSSC - | 4.63% | Lifetime Budget Increase/Decrease | \$0 |
| Fairfax - | 0.84% | Allocated Labor as of FY 2016 | \$53,117 |
| Loudoun/PI - | 0.46% | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 18,577 | 22,439 | 31,832 | 6,927 | 0 | 13,996 | 26,823 | 28,136 | 64,760 | 46,866 | 120,590 | 197,147 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 69,125 | 30,000 | 0 | 0 | 0 | 45,000 | 30,100 | 408,875 | 0 | 31,000 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: DC Clean Rivers
Project ID/Project Title: DZ - Rock Creek CSS LTCP Project
Managing Department: DC Clean Rivers Project
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2030 |

Project Description:

The purpose of this project is to manage combined sewer overflows (CSO) being discharged to Piney Branch, a tributary to Rock Creek. The work comprises construction of green infrastructure to manage 365 acres of impervious surfaces and modifications to the Piney Branch diversion structure. When completed, the work is expected to reduce CSOs to Rock Creek to 4 overflows per year.

Impact on Operations:

The project will result in increased operations and maintenance costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 99.83% |
| EPA/Fed - | 0.17% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$238,939,080 |
| Current Approved Lifetime Budget | \$238,939,080 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$24,542 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2,224 | 6,912 | 7,992 | 3,316 | 0 | 0 | 15,701 | 22,992 | 5,757 | 13,176 | 24,521 | 125,593 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 10,139 | 16,845 | 0 | 0 | 0 | 0 | 46,279 | 0 | 0 | 52,533 | 0 | 113,143 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Program Management
Project ID/Project Title: AV - CSO Program Management ⁴
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2025 |

Project Description:
 Project AV provides engineering project management services for planning, design and rehabilitation projects for DC Water’s combined sewer system for the purpose of reducing adverse impact of combined sewer overflow to the receiving waters

Impact on Operations:
 Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 98.95% |
| EPA/Fed - | 1.05% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$64,562,827 |
| Current Approved Lifetime Budget | \$64,562,827 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$722,893 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 20,638 | 3,827 | 5,355 | 3,943 | 1,376 | 2,760 | 4,098 | 4,409 | 3,019 | 1,829 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 45,197 | 0 | 0 | 0 | 19,365 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

4 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: A7 - Supplemental Environmental Projects
Managing Department: Engineering and Technical Services
EPMC: DETS - Engineering & Tech Services
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2005 |
| Completion: | FY 2015 |

Project Description:

This project was created to respond to requirements negotiated under the 3-Party Consent Decree to settle a lawsuit alleging violation of the CSO provisions of the federal Clean Water Act. Under this project, DC Water will provide funds to the Chesapeake Bay Foundation to undertake green roof projects within the CSO area in the District. DC Water will also provide funds to the Urban Forestry Administration in the DC DOT to plant 3,000 trees in the CSO area and to install 2 rain gardens in N.E. DC.

Impact on Operations:

The project will not have any material impact on the operations budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|--------------------|
| Previous Approved Lifetime Budget | \$1,900,000 |
| Current Approved Lifetime Budget | \$1,900,000 |
| Total DC Water Allocated Labor | \$69,603 |
| Total Project Cost | \$1,741,508 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,672 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: DD - O Street Development Effort
Managing Department: Finance, Accounting & Budget
EPMC: Sewer Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2006 |
| Completion: | FY 2016 |

Project Description:
 This project is for preliminary efforts needed to address the new stadium projects in the vicinity of Main and O Streets and the renovations attendant thereto.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|------------------|
| Previous Approved Lifetime Budget | \$790,570 |
| Current Approved Lifetime Budget | \$185,000 |
| Total DC Water Allocated Labor | \$86,674 |
| Total Project Cost | \$842,431 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 756 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: BA - DC Water Low Impact Development
Managing Department: Engineering and Technical Services
EPMC: Long Term Control Plan Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2002 |
| Completion: | FY 2019 |

Project Description:

This project was developed in accordance with DC Water's commitment to promote Low Impact Development (LID) to control wet weather related pollution, DC Water has or will under take projects to implement LID technology at its own facilities, when and where possible. In addition to reduce stormwater runoff and thereby contribute to the water quality of the receiving waters, this also provides DC Water the opportunity to examine effectiveness of various LID techniques.

Impact on Operations:

There will be some increase in O&M activities when these projects are implemented.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 96.86% |
| EPA/Fed - | 3.14% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$3,000,000 |
| Current Approved Lifetime Budget | \$2,934,753 |
| Lifetime Budget Increase/Decrease | (\$65,247) |
| Allocated Labor as of FY 2016 | \$46,235 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,863 | 114 | 58 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 2,935 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: BH - Rock Creek CSO Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 2004 |
| Completion: | FY 2017 |

Project Description:

These are Combined Sewer System (CSS) Long Term Control Plan (LTCP) early action projects. The regulators at outfalls 033, 036, 047 and 057 will be evaluated to determine if additional combined sewer flows can be contained within the sewer to reduce CSOs to Rock Creek. The CSS area served by outfalls 031, 037, 053, and 058 will be separated into an independent sanitary system and storm sewer system thus eliminating these outfalls and the resultant CSO.

Impact on Operations:

Elimination of the outfalls indicated will reduce operating costs by reducing the need for the periodic inspections effort.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 52.24% |
| EPA/Fed - | 47.76% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$16,670,115 |
| Current Approved Lifetime Budget | \$16,670,115 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$652,944 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 15,004 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 16,670 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: EJ - Potomac Pumping Station-Ph III Rehab ³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2018 |

Project Description:

This project will provide a general upgrade to this station that was placed in service in 1963. It will provide for the replacement of the four existing screens, replacement of gate valve actuators, additional sluice gates between the pumps and the wet well, and a replacement lighting system. It will also provide a new fire alarm and suppression system.

Impact on Operations:

While there is no financial impact on operations, this project will increase the efficiency and decrease the maintenance costs associated with the Potomac Pumping Station, as well as provide the flexibility to reroute influent from any wet well to another pump, easing the ability to do maintenance while still processing the maximum amount of flows for the station.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 49.94% |
| EPA/Fed - | 1.90% |
| WSSC - | 27.89% |
| Fairfax - | 14.06% |
| Loudoun/PI - | 6.20% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$22,784,411 |
| Current Approved Lifetime Budget | \$22,784,411 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$816,711 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Budget | 13,333 | 2,222 | 1,185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 22,454 | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

³ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: EK - Long Term Rehab-Main & O Pump Sta ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2030 |

Project Description:

This project will provide for a 30-year upgrade to the Main Pumping Station and the O Street Pumping Stations. This project will replace the Main Pumping Station’s sanitary pumps, motors and controls, all six storm pumps, motors and controls, rebuild or replace various large gates in the channels, provide a new roof, provide general HVAC improvements and provide a new and separate pumping station for the low area sewer. This project will replace the O Street Pumping Station’s six storm pumps, motors and controls as necessary and provide miscellaneous structural, architectural and electrical upgrades. It will also provide various site improvements around both stations. Parts of this project that pertained to rehabilitation, and identified as necessary prior to 2019, have been rescheduled under a new project (FQ). Accordingly, the budget for this project has been reduced to reflect the cost of such work transferred to the new Project (FQ).

Impact on Operations:

While there is minimal financial impact on Operations, this project provides new sanitary and storm pumps, that will be more efficient than the ones currently in place, which were cast into the concrete in 1908 when the station was built. It also provides the long-term upgrade needed for the station for the next 30 years, and installs variable frequency drives to protect the large motors during startup, when the wet wells are unable to provide the flows necessary to cool such large motors.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 89.70% |
| EPA/Fed - | 0.00% |
| WSSC - | 10.30% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$55,644,000 |
| Current Approved Lifetime Budget | \$55,644,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 0 | 0 | 0 | 0 | 19 | 52 | 2,046 | 6,245 | 3,537 | 2,592 | 27,347 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 0 | 0 | 0 | 0 | 6,094 | 0 | 15,885 | 300 | 12,435 | 515 | 20,415 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: EL - Swirl Facility Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2008 |
| Completion: | FY 2018 |

Project Description:

This project will provide a partial rehabilitation to this facility that was placed in service in 1990. It will provide for the replacement of deteriorated chemical pumps, repair structural damage done by chemicals, make repairs to the control system and wiring for the chemical pumps, replace deteriorated conduits and wiring in the screen room and swirl room as necessary, replace damaged components of HVAC system and repair the control system for the mixing chamber.

Impact on Operations:

There will be no significant impacts on operational costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 97.98% |
| EPA/Fed - | 2.02% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$4,570,215 |
| Current Approved Lifetime Budget | \$4,570,215 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$49,874 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,286 | 146 | 186 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 4,485 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: EQ - Potomac Pumping Station-Ph IV Rehab ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2021 |

Project Description:

This project will provide a general upgrade to this station that was placed in service in 1963. It will provide for architectural improvements, painting throughout the station, new men's and women's ADA compliant restrooms, an odor control system, and VFD's for the two large pumps.

Impact on Operations:

This project will have no material impact on the operating budget, but will provide protection for the large pumps by installing variable frequency drives to more efficiently handle start ups.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 49.80% |
| EPA/Fed - | 0.00% |
| WSSC - | 29.40% |
| Fairfax - | 14.70% |
| Loudoun/PI - | 6.10% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$2,325,000 |
| Current Approved Lifetime Budget | \$2,325,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 45 | 86 | 1,372 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 325 | 0 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: FQ - Main & O St. PS Intermediate Upgrade ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2022 |

Project Description:

This project will provide for needed replacement of storm water pumps and various sluice gates and gate valves at the Main and O Street Pumping Stations. At Main Pump Station, this project will replace three storm pumps, motors and controls and add a new sluice gate to isolate the suction side of Pump No. 4. Also, the project will replace large valves and sluice gates as well as replacing the discharge flap gates on all six storm pumps. At the O Street Pumping Station this project will replace seven gate valves on the suction and discharge of the four sanitary pumps and automate these gate valves to improve control of the flow within the station. Odor control will be addressed as well as screenings conveyance and handling.

Impact on Operations:

There will be no significant impacts on operational costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 90.28% |
| EPA/Fed - | 0.00% |
| WSSC - | 9.72% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$45,884,945 |
| Current Approved Lifetime Budget | \$46,184,945 |
| Lifetime Budget Increase/Decrease | \$300,000 |
| Allocated Labor as of FY 2016 | \$239,611 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2,608 | 4,357 | 6,289 | 4,877 | 3,565 | 2,571 | 1,360 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 7,560 | 14,305 | 16,075 | 0 | 8,245 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: FX - Rehab Northeast Boundary Sewer-Ph I
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2029 |

Project Description:
 This project will repair several segments of the lower portion of the Northeast Boundary Trunk Sewer (NEBT). The proposed project will rehabilitate approximately 5,700 feet of the sewer from structure B-1098 to structure N-36141, using the appropriate rehabilitation methods.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$18,500,000 |
| Current Approved Lifetime Budget | \$18,500,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$21,629 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 620 | 985 | 9 | 18 | 581 | 472 | 4,157 | 5,204 | 98 | 37 | 27 | 129 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 3,982 | 0 | 0 | 0 | 1,463 | 924 | 12,131 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: FZ - Tiber Creek Sewer Lining-Ph I
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2021 |

Project Description:

This project will rehabilitate approximately 6,300 total feet between two sewer segments of the Tiber Creek Trunk Sewer. This project will fix all observed structural defects, restore the structural integrity of the sewer, reduce root intrusion, improve hydraulic capacity and reduce infiltration and inflow into the sewer.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$17,113,000 |
| Current Approved Lifetime Budget | \$17,113,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3 | 587 | 650 | 2,076 | 5,953 | 1,358 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 50 | 1,998 | 1,572 | 13,493 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: G7 - Combined Sewers Under Buildings²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2020 |

Project Description:

This new project is the outcome of the recommendations of a comprehensive Sewer System Assessment (SSA) commissioned by DC Water. This study recommended certain High Priority rehabilitation projects that needed to be undertaken to fix structural defects and restore structural integrity of the sewer system. This project rehabilitates combined sewers located under buildings Citywide identified as high priority activities under the SSA. Other activities included in this project are cleaning, pre and post CCTV, sealing joints and repair of offset pipe.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$15,980,804 |
| Current Approved Lifetime Budget | \$15,980,798 |
| Lifetime Budget Increase/Decrease | (\$6) |
| Allocated Labor as of FY 2016 | \$466,188 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 6,509 | 803 | 31 | 1,029 | 3,675 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 8,550 | 0 | 626 | 6,805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: IH - Combined Sewer Rehabilitation 2
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2021 |

Project Description:

This multi-job project to rehabilitate combined sewers in various locations throughout the District is one aspect of the Service Life Improvement Plan outlined in the Sewer System Facilities Plan. Sewer infrastructure to be rehabilitated is prioritized based on the criticality given to sewer segments, with priority given to infrastructure which transverses under existing buildings. Sewer infrastructure would be rehabilitated utilizing appropriate lining methods as well as any necessary replacement of offset pipes. Multiple jobs provide the annualized program to rehabilitate the large sewer inventory which exhibit deteriorated conditions.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$18,100,000 |
| Current Approved Lifetime Budget | \$24,833,200 |
| Lifetime Budget Increase/Decrease | \$6,733,200 |
| Allocated Labor as of FY 2016 | \$173,722 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 14,254 | 46 | 0 | 184 | 3,041 | 2,557 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 15,248 | 0 | 0 | 9,585 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: IP - Tiber Creek Trunk Sewer Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2022 |
| Completion: | FY 2025 |

Project Description:

This project involves the rehabilitation of severely deteriorated sections found at various locations on three (3) segments of the Tiber Creek Combined Trunk Sewer between Massachusetts Avenue NW to the north and N Street SE to the south (approximately 65 locations total) using appropriate rehabilitation techniques. The size of the trunk sewer ranges from 14'-0" by 14'-3" to 10'-5" by 24'-0". Project also includes the cleaning of the entire 6,400 LF combined sewer main, pre- and post CCTV inspections, reinstating service connections and other related activities.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$8,250,000 |
| Current Approved Lifetime Budget | \$8,250,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 442 | 855 | 3,782 | 1,246 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 1,452 | 6,798 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: KI - Main & O St. Pump Stations³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Court Ordered, Stipulated Agreements, Etc.

| Project Dates | |
|----------------------|---------|
| Start: | FY 1999 |
| Completion: | FY 2017 |

Project Description:
 Project KI provides for the restoration of the capacity of the Main Pumping Station to its rated flow of 240 MGD and the O Street Pumping Station to 45 MGD. Work will include rebuilding and upgrading the sanitary pumps.

Impact on Operations:
 Rehabilitation of these stations will increase the amount of flow that can be pumped to Blue Plains thus reducing the quantity of overflows. The project make the facilities safer for personnel by improving the ventilation, providing odor control, installing new lighting, replacing handrails and other safety features, repairing various structural defects in the two structures and eliminating the need to handle screenings by hand.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 55.42% |
| EPA/Fed - | 44.58% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$79,900,723 |
| Current Approved Lifetime Budget | \$79,900,723 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$2,300,241 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 77,404 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 79,901 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

³ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2017 - FY 2026

Service Area Title: Combined Sewer Overflow Service Area
Program Title: Combined Sewer
Project ID/Project Title: OB - Inflatable Dams Replacement FY24
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2027 |

Project Description:

This project is for the design and construction of inflatable dams, downward opening gates, or bending weirs to replace the eight existing inflatable dams in the system. Alternatives to replacing these dams with other than inflatable dams are to be addressed at time of the replacement. The dams that will be replaced with in-kind dams involve the replacement of the rubber bladder, anchors, and mechanical components associated with the dam operation. Where the dams will be replaced with downward opening gates or bending weirs the existing dam, mechanical equipment, and control vault will be demolished. Then the replacement gates or weirs will be installed within the existing sewer.

Impact on Operations:

Not implementing this project may result in the failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$6,675,000 |
| Current Approved Lifetime Budget | \$6,675,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 137 | 390 | 3,849 | 1,208 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 626 | 626 | 5,423 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: Local Drainage
Project ID/Project Title: A6 - Lining 22nd & P Sts. NW/NWBSO Repair
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2015 |

Project Description:

This project is for the investigation, design and repair of the existing 8'-3" diameter Northwest Boundary Interceptor Sewer which has shown signs of structural defects during prior inspections. The project will decrease further deterioration of the asset.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$3,039,588 |
| Current Approved Lifetime Budget | \$3,039,588 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$166,210 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,541 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 3,040 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: Local Drainage
Project ID/Project Title: GY - Storm Sewer Rehab Various Location
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2020 |

Project Description:

This multi-job project rehabilitates storm sewers located throughout the District. Storm sewer infrastructure to be rehabilitated is prioritized based on the criticality given to inspected sewer segments, with priority given to infrastructure which transverses under existing buildings. Sewer infrastructure would be rehabilitated utilizing appropriate lining methods as well as the repair of any offset pipe. Multiple jobs provide the annualized program to rehabilitate the storm sewer inventory which exhibits deteriorated conditions and is located under buildings.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$6,580,000 |
| Current Approved Lifetime Budget | \$5,680,000 |
| Lifetime Budget Increase/Decrease | (\$900,000) |
| Allocated Labor as of FY 2016 | \$48,040 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 493 | 172 | 8 | 76 | 343 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,198 | 427 | 2,821 | 1,234 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: Local Drainage
Project ID/Project Title: IE - Storm Sewer Rehabilitation 3
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2026 |

Project Description:

This project rehabilitates storm sewers located throughout the District. Storm sewer infrastructure to be rehabilitated is prioritized based on the criticality given to inspected sewer segments, with priority given to infrastructure which transverses under existing buildings. Sewer infrastructure would be rehabilitated utilizing appropriate lining methods as well as the repair of any offset pipe. Multiple jobs provide the annualized program to rehabilitate the storm sewer inventory which exhibits deteriorated conditions and is located under buildings.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$7,016,500 |
| Current Approved Lifetime Budget | \$7,016,500 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 10 | 69 | 642 | 272 | 864 | 1,055 | 222 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 144 | 202 | 2,013 | 413 | 2,287 | 1,957 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: C6 - FY2006 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2005 |
| Completion: | FY 2007 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|------------------|
| Previous Approved Lifetime Budget | \$497,000 |
| Current Approved Lifetime Budget | \$497,000 |
| Total DC Water Allocated Labor | \$6,220 |
| Total Project Cost | \$377,647 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 371 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 497 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: AO - FY2009 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2010 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|------------------|
| Previous Approved Lifetime Budget | \$497,000 |
| Current Approved Lifetime Budget | \$497,000 |
| Total DC Water Allocated Labor | \$2,120 |
| Total Project Cost | \$422,921 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 421 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 497 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: CD - FY2012 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2016 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|------------------|
| Previous Approved Lifetime Budget | \$637,000 |
| Current Approved Lifetime Budget | \$630,079 |
| Total DC Water Allocated Labor | \$2,627 |
| Total Project Cost | \$632,706 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: D7 - FY2014 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2016 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|------------------|
| Previous Approved Lifetime Budget | \$680,000 |
| Current Approved Lifetime Budget | \$680,000 |
| Total DC Water Allocated Labor | \$2,272 |
| Total Project Cost | \$660,997 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 659 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 680 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: DJ - FY2015 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2016 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|------------------|
| Previous Approved Lifetime Budget | \$701,000 |
| Current Approved Lifetime Budget | \$701,000 |
| Total DC Water Allocated Labor | \$4,520 |
| Total Project Cost | \$691,520 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 687 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 701 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: BD - FY2011 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2014 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$618,000 |
| Current Approved Lifetime Budget | \$618,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$2,409 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 538 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 618 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: CN - FY2013 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2017 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$660,000 |
| Current Approved Lifetime Budget | \$660,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$2,084 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 598 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 660 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: DX - FY2016 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2018 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$720,000 |
| Current Approved Lifetime Budget | \$720,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$3,811 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 600 | 75 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 600 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: FN - FY2017 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2018 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$745,000 |
| Current Approved Lifetime Budget | \$745,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 304 | 234 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 745 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: H5 - FY2018 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2019 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$770,000 |
| Current Approved Lifetime Budget | \$770,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 313 | 270 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 770 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: HM - FY2019 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2020 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$794,000 |
| Current Approved Lifetime Budget | \$794,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 375 | 228 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 794 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: JH - FY2020 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2021 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$820,000 |
| Current Approved Lifetime Budget | \$820,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 370 | 237 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 820 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: LO - FY2021 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2022 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-----------|
| Previous Approved Lifetime Budget | \$845,000 |
| Current Approved Lifetime Budget | \$845,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 381 | 249 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 845 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: M8 - FY2022 - DSS Stormwater Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2022 |
| Completion: | FY 2023 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$820,000 |
| Current Approved Lifetime Budget | \$820,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 510 | 204 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 820 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: MG - FY2023 - DSS Stormwater Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2024 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$844,600 |
| Current Approved Lifetime Budget | \$844,600 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 529 | 212 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 845 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: NV - FY2024 - DSS Stormwater Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2025 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$870,000 |
| Current Approved Lifetime Budget | \$870,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 551 | 217 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 870 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: On-Going
Project ID/Project Title: PI - FY2025 - DSS Stormwater Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2025 |
| Completion: | FY 2026 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the stormwater sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the stormwater sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$896,000 |
| Current Approved Lifetime Budget | \$896,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 249 | 534 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 896 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: Pumping Facilities
Project ID/Project Title: NG - Stormwater Pump Stations Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2028 |

Project Description:

This project provides for the rehabilitation of 12 of the 16 stormwater pumping stations that were not upgraded in the last 5 years. These stations are aging and require new mechanical and electrical equipment to maintain operations.

Impact on Operations:

This project has no material impacts on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$25,000,000 |
| Current Approved Lifetime Budget | \$25,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 368 | 1,743 | 2,068 | 72 | 1,136 | 4,155 | 20 | 0 | 0 | 308 | 4,512 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 1,880 | 8,120 | 0 | 200 | 9,800 | 0 | 0 | 0 | 0 | 950 | 4,050 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: P5 - FY2004 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2004 |
| Completion: | FY 2016 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|----------|
| Previous Approved Lifetime Budget | \$20,000 |
| Current Approved Lifetime Budget | \$20,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$5,405 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: P8 - FY2007 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2016 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$155,000 |
| Current Approved Lifetime Budget | \$155,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: P9 - FY2008 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2016 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$1,000,000 |
| Current Approved Lifetime Budget | \$1,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: AR - FY2009 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2015 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$160,000 |
| Current Approved Lifetime Budget | \$160,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: B3 - FY2010 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2015 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$165,000 |
| Current Approved Lifetime Budget | \$165,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: BM - FY2011 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2015 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$170,000 |
| Current Approved Lifetime Budget | \$170,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: CB - FY2012 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2017 |

Project Description:
 This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$175,000 |
| Current Approved Lifetime Budget | \$175,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 14 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: CL - FY2013 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2018 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$180,000 |
| Current Approved Lifetime Budget | \$180,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: D8 - FY2014 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2019 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-----------|
| Previous Approved Lifetime Budget | \$185,000 |
| Current Approved Lifetime Budget | \$185,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 2 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: DK - FY2015 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2015 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$191,000 |
| Current Approved Lifetime Budget | \$191,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 191 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 191 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: DT - FY2016 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2017 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$196,000 |
| Current Approved Lifetime Budget | \$196,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 14 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 196 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: FM - FY2017 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: Sewer Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2015 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$205,000 |
| Current Approved Lifetime Budget | \$205,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 205 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: H4 - FY2018 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2018 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$215,000 |
| Current Approved Lifetime Budget | \$215,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: DDOT
Project ID/Project Title: HP - FY2019 - DDOT Stormwater Projects
Managing Department: DC Dept. of Transportation
EPMC: Sewer Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2015 |

Project Description:

This project is for the annual program of storm water infrastructure projects that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation. This coordination minimizes public inconvenience caused by construction work and saves DC Water the paving cost.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$220,000 |
| Current Approved Lifetime Budget | \$220,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 220 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: Research & Program Management
Project ID/Project Title: AT - Stormwater Program Management
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2025 |

Project Description:
 This project provides engineering program management services for the stormwater service area capital projects and design management services for the rehabilitation or replacement of 15 stormwater pumping stations. It also provides engineering services for condition assessment of the storm sewer system and development of conceptual design for the storm sewer system capital projects.

Impact on Operations:
 Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$12,013,222 |
| Current Approved Lifetime Budget | \$12,013,222 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$282,922 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 8,351 | 270 | 238 | 182 | 64 | 123 | 179 | 207 | 163 | 129 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 10,379 | 0 | 0 | 0 | 1,634 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Stormwater Service Area
Program Title: Trunk/Force Sewers
Project ID/Project Title: BO - Future Stormwater Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2005 |
| Completion: | FY 2020 |

Project Description:

This project provides design and construction services for stormwater sewer interceptors, trunk sewers and force mains that require upgrades. Sewers rehabilitated by this project are defined by the major planning and condition assessment program underway for the stormwater sewer system. As the assessment of the storm sewer system progresses and specific rehabilitation needs are identified, jobs will be created under this project to remediate system problems.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 96.49% |
| EPA/Fed - | 3.51% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$15,597,208 |
| Current Approved Lifetime Budget | \$15,597,208 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$401,041 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 7,255 | 456 | 102 | 1,070 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 10,258 | 1,400 | 311 | 3,628 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: JX - Sanitary Sewer Rehabilitation I0
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2020 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the city.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$13,600,000 |
| Current Approved Lifetime Budget | \$13,600,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$18,435 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1 | 6 | 6 | 1,070 | 3,502 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 50 | 0 | 0 | 13,550 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: JU - Sanitary Sewer Rehabilitation I3
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2022 |

Project Description:
 This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$15,175,000 |
| Current Approved Lifetime Budget | \$15,175,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 46 | 377 | 3,279 | 1,975 | 197 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 1,011 | 1,521 | 12,643 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: JS - Sanitary Sewer Rehabilitation I5
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2022 |

Project Description:
 This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$15,630,250 |
| Current Approved Lifetime Budget | \$13,830,250 |
| Lifetime Budget Increase/Decrease | (\$1,800,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 52 | 469 | 3,846 | 1,265 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 1,000 | 1,400 | 11,430 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: PY - Sanitary Sewer Rehabilitation 16
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2023 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$16,100,000 |
| Current Approved Lifetime Budget | \$16,100,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 185 | 744 | 5,868 | 70 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 706 | 15,394 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: LK - Sanitary Sewer Rehabilitation 17
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2023 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$16,100,000 |
| Current Approved Lifetime Budget | \$16,100,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 49 | 372 | 3,934 | 2,232 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 1,040 | 1,820 | 13,240 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: LL - Sanitary Sewer Rehabilitation I8
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2026 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$16,582,000 |
| Current Approved Lifetime Budget | \$16,582,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 460 | 944 | 6,665 | 135 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,467 | 15,115 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: NF - Sanitary Sewer Rehabilitation I9
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2024 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$16,582,000 |
| Current Approved Lifetime Budget | \$15,164,000 |
| Lifetime Budget Increase/Decrease | (\$1,418,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 82 | 535 | 3,707 | 2,683 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 1,400 | 2,160 | 11,604 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: MO - Sanitary Sewer Rehabilitation 20
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2027 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$17,100,000 |
| Current Approved Lifetime Budget | \$15,000,000 |
| Lifetime Budget Increase/Decrease | (\$2,100,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 398 | 923 | 6,251 | 256 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,200 | 13,800 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: NI - Sanitary Sewer Rehabilitation 21
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2027 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$17,100,000 |
| Current Approved Lifetime Budget | \$17,100,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 586 | 5,097 | 5,895 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,300 | 2,000 | 13,800 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: MP - Sanitary Sewer Rehabilitation 22
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2026 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$17,600,000 |
| Current Approved Lifetime Budget | \$17,600,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 387 | 1,232 | 7,146 | 30 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,236 | 16,364 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: NC - Sanitary Sewer Rehabilitation 23
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2026 |

Project Description:
 This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$17,600,000 |
| Current Approved Lifetime Budget | \$17,600,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 106 | 683 | 5,026 | 3,108 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,600 | 2,291 | 13,709 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: MZ - Sanitary Sewer Rehabilitation 24
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2027 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$18,120,000 |
| Current Approved Lifetime Budget | \$18,100,000 |
| Lifetime Budget Increase/Decrease | (\$20,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 378 | 1,097 | 7,559 | 198 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,273 | 16,827 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: NX - Sanitary Sewer Rehabilitation 25
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2027 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$18,664,000 |
| Current Approved Lifetime Budget | \$18,664,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 123 | 763 | 7,063 | 2,747 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,960 | 0 | 16,704 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: NY - Sanitary Sewer Rehabilitation 26
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2025 |
| Completion: | FY 2027 |

Project Description:
 This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the City.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$19,100,000 |
| Current Approved Lifetime Budget | \$19,100,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 557 | 1,780 | 14,556 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,600 | 17,500 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: J3 - Sewer Upgrade - City Wide
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2021 |

Project Description:

This project is for the assessment, design and construction of sanitary sewer interceptors, trunk sewers and force mains that require upgrade. Sewers rehabilitated by this project are defined by the major planning and condition assessment program underway for the sanitary sewer system. This project consists of four jobs to address sewer upgrade needs. It increases the reliability, restores the integrity, and maintains the capacity of DC Water's sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$16,291,710 |
| Current Approved Lifetime Budget | \$18,003,710 |
| Lifetime Budget Increase/Decrease | \$1,712,000 |
| Allocated Labor as of FY 2016 | \$734,134 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 4,857 | 1,200 | 1,450 | 558 | 558 | 285 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 14,191 | 1,320 | 0 | 2,493 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: GI - Small Local Sewer Rehab I
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2018 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the City.

Impact on Operations:

Not implementing this project may result in the failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$28,114,327 |
| Current Approved Lifetime Budget | \$28,114,327 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$287,733 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,558 | 2,219 | 748 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 22,570 | 5,544 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: G8 - Small Local Sewer Rehab 2
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2017 |

Project Description:
 This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. This project would repair approximately 10,000 liner feet of defective sewer pipes with an average sewer diameter of 18 inches. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the city.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$2,842,234 |
| Current Approved Lifetime Budget | \$2,842,234 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$176,165 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 981 | 476 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 2,842 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: G9 - Small Local Sewer Rehab 3
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2017 |

Project Description:
 This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. This project would repair approximately 20,000 liner feet of defective sewer pipes with an average sewer diameter of 18 inches. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the city.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$5,650,000 |
| Current Approved Lifetime Budget | \$368,000 |
| Lifetime Budget Increase/Decrease | (\$5,282,000) |
| Allocated Labor as of FY 2016 | \$62,474 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 304 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 368 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: GA - Small Local Sewer Rehab 4
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2017 |

Project Description:
 This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. This project would repair approximately 30,000 liner feet of defective sewer pipes with an average sewer diameter of 18 inches. Sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated would be distributed throughout the four quadrants of the city.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$8,557,261 |
| Current Approved Lifetime Budget | \$8,557,261 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$258,530 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2,986 | 988 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 8,557 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Collection Sewers
Project ID/Project Title: QB - Sanitary Sewer Rehabilitation 27
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2026 |
| Completion: | FY 2028 |

Project Description:

This multi-job project to rehabilitate sanitary sewers in various locations throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer infrastructure to be rehabilitated is prioritized based on the criticality given to sewer segments. Sewer infrastructure will be rehabilitated utilizing appropriate lining methods as well as any necessary replacement of offset pipes. Multiple jobs provide the annualized program to rehabilitate the large sewer inventory which exhibits deteriorated conditions.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | NEW |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$45,000,000 |
| Lifetime Budget Increase/Decrease | \$45,000,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,218 | 38,145 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,800 | 41,200 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: CE - FY2012 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2012 |
| Completion: | FY 2015 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|--------------------|
| Previous Approved Lifetime Budget | \$9,385,000 |
| Current Approved Lifetime Budget | \$9,374,588 |
| Total DC Water Allocated Labor | \$33,094 |
| Total Project Cost | \$9,407,682 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 9,375 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 9,375 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: CQ - FY2013 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2015 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|--------------------|
| Previous Approved Lifetime Budget | \$10,205,000 |
| Current Approved Lifetime Budget | \$10,205,000 |
| Total DC Water Allocated Labor | \$32,493 |
| Total Project Cost | \$8,948,239 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 8,916 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 10,205 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: Q3 - FY2003 - DSS Sanitary Sewer Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2003 |
| Completion: | FY 2018 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 86.52% |
| EPA/Fed - | 13.48% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$13,863,052 |
| Current Approved Lifetime Budget | \$13,863,052 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$766,282 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 5,272 | 2,451 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 13,801 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: BF - FY2011 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2018 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$8,165,000 |
| Current Approved Lifetime Budget | \$8,165,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$25,949 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 4,717 | 1,412 | 984 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 8,165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: D6 - FY2014 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2017 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$10,575,000 |
| Current Approved Lifetime Budget | \$10,575,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$100,901 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 8,677 | 1,233 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 10,575 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: DI - FY2015 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2017 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$10,846,000 |
| Current Approved Lifetime Budget | \$10,846,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$113,849 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 7,162 | 158 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 10,846 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: DW - FY2016 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2020 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$14,600,593 |
| Current Approved Lifetime Budget | \$14,600,593 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$63,163 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 8,943 | 1,501 | 2,540 | 1,099 | 172 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 14,601 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: FP - FY2017 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2018 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$11,500,000 |
| Current Approved Lifetime Budget | \$11,500,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 5,083 | 3,118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 11,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: H6 - FY2018 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2019 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$11,845,000 |
| Current Approved Lifetime Budget | \$11,845,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 4,959 | 3,838 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 11,845 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: HN - FY2019 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2020 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$12,200,000 |
| Current Approved Lifetime Budget | \$12,200,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 5,960 | 4,410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 12,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: JJ - FY2020 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2021 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$12,568,000 |
| Current Approved Lifetime Budget | \$12,568,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 5,049 | 5,761 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 12,568 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: LN - FY2021 - DSS Sanitary Sewer Projects
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2022 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$12,945,000 |
| Current Approved Lifetime Budget | \$12,945,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 4,651 | 5,477 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 12,945 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: M9 - FY2022 - DSS Sanitary Sewer Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2022 |
| Completion: | FY 2023 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$13,335,350 |
| Current Approved Lifetime Budget | \$13,335,350 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 4,727 | 5,748 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 13,335 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: MF - FY2023 - DSS Sanitary Sewer Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2024 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$13,735,411 |
| Current Approved Lifetime Budget | \$13,735,411 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,956 | 5,901 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13,735 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: NW - FY2024 - DSS Sanitary Sewer Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2025 |

Project Description:

This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$14,224,914 |
| Current Approved Lifetime Budget | \$14,224,914 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,207 | 6,102 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14,225 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: On-Going
Project ID/Project Title: OX - FY2025 - DSS Sanitary Sewer Projects
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2025 |
| Completion: | FY 2026 |

Project Description:
 This project is for the annual program of planned projects by the Department of Sewer Services for the rehabilitation and improvement of the sanitary sewer system. This project is needed to replace aged infrastructure to restore integrity and reliability of the sanitary sewer system.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$14,650,000 |
| Current Approved Lifetime Budget | \$14,650,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,353 | 6,210 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14,650 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Pumping Facilities
Project ID/Project Title: CX - Sewer Facilities Security Upgrades
Managing Department: Security
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2017 |

Project Description:

This project will provide for a security assessment, placement of exterior and interior cameras throughout Sewer Services Facilities, install traffic control devices (i.e., bollards & speed bumps), and install perimeter fencing (i.e., shoreline enclosures).

Impact on Operations:

This project will have no material impact on the operating budget, however minor O & M costs for maintenance and monitoring of security cameras will occur in future budget years.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$1,335,076 |
| Current Approved Lifetime Budget | \$1,335,076 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 384 | 246 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,335 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Pumping Facilities
Project ID/Project Title: GZ - Sewer Instrumentation & Control ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2012 |
| Completion: | FY 2018 |

Project Description:

This project will provide instrumentation and control enhancements at sewer pump stations and other sewer facilities located outside of Blue Plains throughout the District. The proposed controls would maximize flows to Blue Plains in wet weather, automate data capture for more efficient responses and optimize energy use at the sewer facilities. Project includes installation of flow meters, rain gauges, and SCADA equipment and controls. This project is a suggested project in the 2009 Sewer System Facilities Plan.

Impact on Operations:

Project would reduce wet weather CSO flow during high intensity, short duration events, reduce energy costs and would increase the useful life of DC Water facilities.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 90.83% |
| EPA/Fed - | 0.00% |
| WSSC - | 5.83% |
| Fairfax - | 2.52% |
| Loudoun/PI - | 0.82% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$6,785,000 |
| Current Approved Lifetime Budget | \$8,785,000 |
| Lifetime Budget Increase/Decrease | \$2,000,000 |
| Allocated Labor as of FY 2016 | \$177,247 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,438 | 1,422 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 6,285 | 2,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Pumping Facilities
Project ID/Project Title: HB - DSS Sewer Pumping Project
Managing Department: Sewer Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2020 |

Project Description:
 This project will support the Department of Sewer Services pumping maintenance program. Large, expensive, and long lived equipment needs to be periodically replaced due to wear or premature failure. Major pumps, motors, valves, screens and related equipment will be replaced or rebuilt in each of the department's more than twenty pump stations as needed.

Impact on Operations:
 Failure to proceed with this project will increase overtime and parts and labor costs in the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$4,560,000 |
| Current Approved Lifetime Budget | \$4,560,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$14,002 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,101 | 278 | 9 | 10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 4,560 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Pumping Facilities
Project ID/Project Title: LY - Sewer Facilities Security Upgrades
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2021 |

Project Description:

This project will provide an upgrade to the Sewage Service Facilities & CSOs requiring immediate security attention to implement exterior and interior security elements (CCTV cameras, access card readers, sensors, etc), other control surveillance devices and systems to protect the existing infrastructure and critical assets against vandalism, criminal activity, and possible future terrorism; as well as to protect DC Water personnel.

Impact on Operations:

This project will have no material impact on the operating budget, however, minor O & M costs for maintenance and monitoring of security cameras will occur in future budget years.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$2,000,000 |
| Current Approved Lifetime Budget | \$2,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 72 | 248 | 263 | 158 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Pumping Facilities
Project ID/Project Title: MB - 3rd St & Constitution Ave NW PS
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2021 |

Project Description:

This project provides for the rehabilitation of the 3rd Street and Constitution Avenue NW, Pumping Station. Job MB01 (3rd Street and Constitution Avenue NW, Pumping Station Interim Rehabilitation) provides for the rehabilitation or replacement of most electrical and mechanical equipment and instrumentation in the station and the installation of an odor control system. Job MB02 (3rd Street and Constitution Avenue NW, Pumping Station Long-Term Rehabilitation) provides for the installation or replacement of several major items in the station including a new entrance to the wet well, replacement of the switchgear and feeders, and rehabilitation of the force main.

Impact on Operations:

This project will have no material impact on operating budgets.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$7,373,800 |
| Current Approved Lifetime Budget | \$7,373,800 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$113,601 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,062 | 194 | 1 | 727 | 1,123 | 91 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,878 | 0 | 0 | 5,495 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Pumping Facilities
Project ID/Project Title: MC - Additional Sewer SCADA System Sites
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2021 |

Project Description:

This project implements recommendations of the 2013 SCADA Master Plan. It is to add additional sites and also optimize the existing Sewer SCADA System. The initial focus will be to develop standards, implement changes needed for existing SCADA sites to conform to the standards, and perform system-wide testing to promote reliable monitoring and control of Sewer System SCADA sites. The project also includes assessments to leverage SCADA for Energy Management, additional operational reports and organizational performance matrices in support of the Blue Horizon 2020 strategic plan. In the future, a fully optimized SCADA will move Sewer operations from an operator-based automation system to a centralized computer decision system that forecasts demand and continuously calculates optimal system settings within established operating constraints.

Impact on Operations:

The primary purpose of the SCADA System is to monitor the health of the distribution system and control water system equipment in order to meet water quality requirements and customer needs. Water and sewer operators need to understand alarms and see discrepancies between known field conditions and SCADA System displays. This affects operations ability to make effective operating decisions and respond appropriately to unexpected changes in system operation.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$8,000,000 |
| Current Approved Lifetime Budget | \$8,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$15,279 |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 111 | 667 | 177 | 742 | 821 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 1,164 | 2,050 | 4,786 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Pumping Facilities
Project ID/Project Title: PM - East Side Pumping Station
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2022 |

Project Description:
 The East Side Pumping Station does not have any upgrades planned in the future, but the Department of Distribution and Conveyance Systems has requested installation of a screenings handling system of conveyors with washer and compactor to facilitate more efficient operations.

Impact on Operations:
 This project will have no material impact on operating budgets.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$4,000,000 |
| Current Approved Lifetime Budget | \$4,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 66 | 170 | 1,309 | 56 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 400 | 3,600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Pumping Facilities
Project ID/Project Title: PT - Existing Sewer Facilities Bldg Optimization
Managing Department: Facilities Management
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2023 |

Project Description:

To meet EPA guidelines for energy efficiency, water efficiency, sustainable buildings, renewable energy, safety requirements, and environmental management systems, all DC Water buildings, supporting sewer pumping, should be upgraded to an electronic integrated Building Automation System for proper performance and remote control monitoring related with HVAC, Plumbing Elevators, and Life Safety Equipment. The Sewer Pumping Buildings requiring upgrades are as follows: Main Pumping Station (\$305,000), O Pumping Station (\$200,000), and Potomac Pumping Station (\$200,000).

Impact on Operations:

This project will have no material impact on operating budgets.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$705,000 |
| Current Approved Lifetime Budget | \$705,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 6 | 15 | 84 | 209 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 15 | 50 | 640 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Program Management
Project ID/Project Title: AU - Sanitary Sewer Program Management ⁴
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2025 |

Project Description:

This project provides engineering program management services for the sanitary sewer service area in the District. This multi-year project involves planning, assessments, and conceptual designs for capital projects related to the sanitary sewer system. This project also provides design management services for the rehabilitation of sewage pumping stations. This project increases the reliability, restores the integrity, and maintains the capacity of DC Water's sanitary sewer system.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$75,900,704 |
| Current Approved Lifetime Budget | \$75,900,704 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$283,587 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 35,816 | 3,651 | 5,165 | 3,822 | 1,484 | 2,841 | 4,141 | 4,508 | 3,395 | 2,578 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 55,101 | 0 | 0 | 0 | 20,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

4 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Program Management
Project ID/Project Title: DN - Sewer Inspection Program
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2026 |

Project Description:
 The program will provide an ongoing effort to further inspect the Authority's existing sewer system

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$52,420,022 |
| Current Approved Lifetime Budget | \$54,889,922 |
| Lifetime Budget Increase/Decrease | \$2,469,900 |
| Allocated Labor as of FY 2016 | \$341,658 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 9,715 | 4,130 | 6,418 | 5,363 | 3,254 | 2,061 | 2,774 | 2,719 | 3,246 | 2,650 | 1,810 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 11,916 | 9,864 | 4,910 | 9,407 | 2,561 | 3,549 | 2,980 | 3,650 | 2,534 | 3,520 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Program Management
Project ID/Project Title: LR - Sanitary Sewer Asset Management ⁴
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2018 |

Project Description:

This project is to implement a comprehensive Asset Management program for Sanitary Sewer operations. The program consists of a variety of elements, including but not limited to technology and data, maintenance and work management, reliability and condition assessment and asset life cycle management activities. Asset Management implementation is expected to take place over a five year period.

Impact on Operations:

Additional operating/maintenance costs will be required, but greater savings through improved asset life cycle costing is anticipated.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 75.51% |
| EPA/Fed - | 0.00% |
| WSSC - | 18.78% |
| Fairfax - | 3.74% |
| Loudoun/PI - | 1.97% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$5,000,000 |
| Current Approved Lifetime Budget | \$5,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$131,085 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2,956 | 975 | 334 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 5,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: FV - Rehabilitation of East Side Interceptor
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2016 |

Project Description:
 This project will rehabilitate approximately 15,300 feet of the 72 inch diameter Lower East Side Interceptor using a slip lining method. The portion of the Lower East Side Interceptor proposed for rehabilitation is located between RFK Stadium and the Southeast Federal Center.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|--------------------|
| Previous Approved Lifetime Budget | \$15,142,656 |
| Current Approved Lifetime Budget | \$15,142,656 |
| Total DC Water Allocated Labor | \$109,894 |
| Total Project Cost | \$4,552,861 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 4,443 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 15,143 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: A4 - Future Sewer System Upgrades ³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2004 |
| Completion: | FY 2020 |

Project Description:

This project is to design and construct sanitary sewer interceptors, trunk sewers and force mains identified as requiring upgrade by the major planning and condition assessment program underway for the sanitary sewer system. This project is needed to construct new and rehabilitate or replace aged infrastructure to restore integrity and reliability of DC Water's sanitary sewer system.

Impact on Operations:

This project includes activities that will enhance system reliability and reduce emergency maintenance or repairs. Therefore, the project provides cost avoidance to future operating budgets.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 70.91% |
| EPA/Fed - | 4.80% |
| WSSC - | 18.63% |
| Fairfax - | 4.26% |
| Loudoun/PI - | 1.40% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$45,455,666 |
| Current Approved Lifetime Budget | \$43,455,666 |
| Lifetime Budget Increase/Decrease | (\$2,000,000) |
| Allocated Labor as of FY 2016 | \$3,195,963 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 24,090 | 994 | 1,476 | 1,379 | 139 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 30,686 | 6,754 | 1,628 | 4,388 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

³ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: DM - UAMI Relief Sewer
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2025 |

Project Description:

The existing Upper Anacostia Main Interceptor (UAMI) conveys sewage from the Eastland Gardens and Kenilworth neighborhoods to the Upper Anacostia Pumping Station on Anacostia Avenue, NE. The UAMI was constructed in the early 1930's and ranges in size from 18-inches to 24-inches in diameter. Due to population growth and pipe deterioration, the UAMI trunk and collection sewers were assessed for rehabilitation and capacity needs. This project includes the construction of a new 30-inch relief sanitary sewer and several repairs to the collection sewers tributary to the UAMI.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$14,505,255 |
| Current Approved Lifetime Budget | \$14,505,255 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$55,176 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 478 | 0 | 0 | 100 | 418 | 63 | 34 | 1,463 | 4,103 | 815 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 477 | 0 | 0 | 1,240 | 0 | 189 | 199 | 12,400 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: DR - Low Area Trunk Sewer Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2020 |

Project Description:

This project provides for the cleaning, assessing, design and rehabilitation of the 11,700 foot long Low Area Trunk Sewer after a collapse of a section of the sewer near the US Capitol Building. The line extends from 13th Street NW, to the Main Pumping Station. The majority of the work will be Cured In-Place Pipe (CIPP) and manhole rehabilitation.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$17,734,961 |
| Current Approved Lifetime Budget | \$17,734,961 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$255,417 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2,300 | 166 | 535 | 3,993 | 1,403 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 2,994 | 0 | 14,741 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: FW - Rehab Piney Branch Trunk Sewer
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2023 |

Project Description:

This project will rehabilitate the Piney Branch Trunk Sewer from the intersection of 3rd Street and Madison Street, NW to Structure No. 70, which is located at the outfall to Piney Branch in the vicinity of Piney Branch Parkway and 17th Street, NW. The project proposes to rehabilitate approximately 11,200 feet of the deteriorated sewer with an internal lining method.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$38,023,062 |
| Current Approved Lifetime Budget | \$40,443,062 |
| Lifetime Budget Increase/Decrease | \$2,420,000 |
| Allocated Labor as of FY 2016 | \$150,025 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,110 | 40 | 26 | 1,418 | 3,674 | 2,757 | 7,105 | 1,839 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,256 | 0 | 1,316 | 13,417 | 1,499 | 22,954 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: FY - Rehab Upstream Rock Creek Main Intrcpt²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2024 |

Project Description:

This project will rehabilitate approximately 13,800 feet of the upper part of the Rock Creek Main Interceptor (RCMI). The project will repair all known defects of the RCMI including broken pipes, holes, missing mortar, and visibly exposed aggregate and structural reinforcement. The project proposes rehabilitation by lining methods of the Rock Creek Main Interceptor between the intersection of Joyce Road & Ross Drive, NW and Beach Drive, NW close to the intersection of Oregon Avenue, NW and Western Avenue.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 50.06% |
| EPA/Fed - | 0.00% |
| WSSC - | 49.94% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$29,560,000 |
| Current Approved Lifetime Budget | \$29,560,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$90,537 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,019 | 739 | 774 | 0 | 13 | 480 | 748 | 5,765 | 4,211 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,640 | 4,360 | 0 | 0 | 2,356 | 0 | 2,827 | 18,377 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: G2 - Sewer Structure Rehabilitation (1)²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2020 |

Project Description:

This multi-phase / multi-job project was developed from the suggested project list included in the 2009 Sewer System Facilities Plan. Each job within the project proposes improvements to various sewer structures throughout the District. Project includes job G201, Rehabilitation of Structure 35B, to abandon the existing sewer structure inside the Kennedy Center and reinstate the structure at the intersection of 27th & G Street, NW. Project includes job G202, Sewer Structure 24 and 34 Improvements, to install access to the inflatable dams and rehabilitate Structures 24 and 34. Project includes job G203, Access Improvements to CSO 061, to provide maintenance accessibility to NPDES Outfall 061. Project includes job G204, Rehabilitation of Gates at Structures 5A, 5B and 5C, to replace the sluice gates for the sewer structures located outside of the Poplar Point Pumping Station.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | | | |
|--------------|--------|--|-------------|
| DC - | 87.23% | Previous Approved Lifetime Budget | \$9,181,550 |
| EPA/Fed - | 0.00% | Current Approved Lifetime Budget | \$9,181,550 |
| WSSC - | 12.77% | Lifetime Budget Increase/Decrease | \$0 |
| Fairfax - | 0.00% | Allocated Labor as of FY 2016 | \$62,993 |
| Loudoun/PI - | 0.00% | | |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 311 | 76 | 638 | 700 | 463 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 4.330 | 2.052 | 300 | 2.500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: G4 - Upper Potomac Intercept Sewer Rehab.
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2026 |

Project Description:

Repair and return to service approximately 2,000 feet of the 48-inch diameter Upper Potomac Interceptor Sewer, which has been out of service since a failure occurred during Hurricane Agnes in June 1972. This project will divert future flow from the Upper Potomac Interceptor Relief Sewer, which will be at capacity in future years.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 79.76% |
| EPA/Fed - | 0.00% |
| WSSC - | 15.68% |
| Fairfax - | 3.21% |
| Loudoun/PI - | 1.35% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$14,014,041 |
| Current Approved Lifetime Budget | \$13,514,041 |
| Lifetime Budget Increase/Decrease | (\$500,000) |
| Allocated Labor as of FY 2016 | \$144,562 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 641 | 641 | 0 | 0 | 0 | 0 | 0 | 0 | 857 | 1,447 | 2,698 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 4,014 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,800 | 7,700 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

3 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: G5 - Sewer Rehab Near Creek Beds
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Health Safety

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2022 |

Project Description:

This project consists of multiple jobs to protect infrastructure in the vicinity of streams and creeks located throughout the District. The project intends to relocate and rehabilitate manholes and sewer pipes vulnerable to flooding or erosion, infrastructure exposed to or adjacent to surface waters. Project also includes rehabilitation for outfalls and other tasks required to protect exposed sewers due to stream bank erosion.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$50,893,153 |
| Current Approved Lifetime Budget | \$50,893,153 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$348,459 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,218 | 1,143 | 1,189 | 3,509 | 7,714 | 3,653 | 117 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 11,615 | 1,690 | 10,662 | 26,926 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: G6 - Sanitary Sewers Under Buildings I
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2020 |

Project Description:

This project rehabilitates sanitary sewers located under buildings citywide. Other activities included in this project are cleaning, pre- and post-CCTV, sealing joints and repair of offset pipe.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$8,473,692 |
| Current Approved Lifetime Budget | \$6,665,692 |
| Lifetime Budget Increase/Decrease | (\$1,808,000) |
| Allocated Labor as of FY 2016 | \$150,441 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,824 | 289 | 0 | 272 | 1,207 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 3,066 | 0 | 0 | 3,600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: GG - Large Sewer Rehab 2
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2017 |

Project Description:

This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the city.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$3,000,000 |
| Current Approved Lifetime Budget | \$452,000 |
| Lifetime Budget Increase/Decrease | (\$2,548,000) |
| Allocated Labor as of FY 2016 | \$16,961 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 403 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 452 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: GH - Large Sewer Rehab 3
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2022 |

Project Description:
 This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the city.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$6,150,000 |
| Current Approved Lifetime Budget | \$20,195,000 |
| Lifetime Budget Increase/Decrease | \$14,045,000 |
| Allocated Labor as of FY 2016 | \$22,723 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 497 | 0 | 0 | 0 | 2,657 | 5,693 | 47 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 605 | 0 | 0 | 0 | 19,590 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: HS - Rehabilitation of Influent Sewers ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2031 |

Project Description:

This project addresses the need to conduct detailed assessments of several major sewers within the District prior to proceeding with implementation of corrective actions. The relevant sewers include three of the major influent sewers to Blue Plains WWTP: the East Outfall Relief Sewer, the West Outfall Sewer and the West Outfall Relief Sewer. Activities would include cleaning, and inspection as necessary of 32,000 linear feet to fully ascertain the pipe condition, prior to future (as yet unfunded) rehabilitation.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences. Due to the size of the sewer and volume of flow, the negative effects on public health and safety in the event of a collapse would be substantial.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 60.81% |
| EPA/Fed - | 0.00% |
| WSSC - | 28.94% |
| Fairfax - | 7.73% |
| Loudoun/PI - | 2.52% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$63,000,000 |
| Current Approved Lifetime Budget | \$97,430,000 |
| Lifetime Budget Increase/Decrease | \$34,430,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 708 | 446 | 552 | 1,415 | 5,192 | 5,701 | 2,139 | 89 | 823 | 859 | 56,880 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,000 | 2,000 | 2,145 | 0 | 32,285 | 0 | 0 | 0 | 4,231 | 0 | 0 | 55,769 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: HT - Rehabilitation of Anacostia Force Main ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2012 |
| Completion: | FY 2025 |

Project Description:

This project was developed to evaluate, rehabilitate and protect the Anacostia Force Main (AFM). The 108-inch diameter AFM extends 32,700 linear feet from the Maryland / District border to its terminus near South Capital Street and Firth Sterling Ave, SE. The AFM carries approximately 244 MGD (1/3 of WSSC's wastewater flow) to Blue Plains. This critical sewer consists largely of pre-stressed concrete cylinder pipe (PCCP) which has a history of failures throughout the industry. Job HT01 is to repair the force main's Cathodic Protection system due to its critical nature in protecting PCCP. Job HT02 is to repair known damaged pipe in 8 locations. Job HT05 plans for the future analysis and condition assessment of the AFM and Job HT06 is for a feasibility study to determine if the original force main can be put back into service.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | | | |
|--------------|--------|--|--------------|
| DC - | 40.25% | Previous Approved Lifetime Budget | \$11,289,817 |
| EPA/Fed - | 0.00% | Current Approved Lifetime Budget | \$11,289,817 |
| WSSC - | 59.75% | Lifetime Budget Increase/Decrease | \$0 |
| Fairfax - | 0.00% | Allocated Labor as of FY 2016 | \$112 |
| Loudoun/PI - | 0.00% | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 1,231 | 220 | 55 | 0 | 110 | 300 | 161 | 1,219 | 1,485 | 21 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 3,280 | 840 | 0 | 0 | 990 | 270 | 5,910 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: IF - Sanitary Sewer Rehabilitation 2
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2017 |

Project Description:
 This project to rehabilitate and repair local sewers throughout the District is one aspect of the Service Life Improvement Plan outlined in the 2009 Sewer System Facilities Plan. Sewer segments will be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs. The selected local neighborhood sewers to be rehabilitated will be distributed throughout the four quadrants of the city.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$8,273,470 |
| Current Approved Lifetime Budget | \$1,540,270 |
| Lifetime Budget Increase/Decrease | (\$6,733,200) |
| Allocated Labor as of FY 2016 | \$75,180 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 576 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,540 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: IK - Potomac Force Main Rehabilitation ³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2020 |

Project Description:

The project will provide for the rehabilitation of the Potomac Force Main. This is necessary in order to continue to gather information for the prioritization of rehabilitation projects established for both mainline sewers and sewer lateral repair work.

Impact on Operations:

This project will provide information regarding the status and condition of the sewer system and improve planning for the sewer system rehabilitation needs. This allows for the evaluation and prioritization of work for the large sewer rehabilitation program and local sewer rehabilitation program, as well as other aspects of the Service Life Improvement Plan.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 47.82% |
| EPA/Fed - | 0.00% |
| WSSC - | 28.12% |
| Fairfax - | 18.15% |
| Loudoun/PI - | 5.92% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$6,074,391 |
| Current Approved Lifetime Budget | \$6,074,391 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$25,489 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 700 | 58 | 359 | 1,055 | 702 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 700 | 1,225 | 0 | 4,150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

³ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: IL - Creekbed Sewer Rehabilitation 2²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Health Safety

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2022 |

Project Description:

This project consists of multiple jobs to protect infrastructure in the vicinity of streams and creeks located throughout the District. The project intends to relocate and rehabilitate manholes and sewer pipes vulnerable to flooding or erosion and infrastructure exposed to or adjacent to surface waters. The project also includes the rehabilitation of outfalls and other tasks required to protect exposed sewers due to stream bank erosion.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 93.45% |
| EPA/Fed - | 0.00% |
| WSSC - | 6.55% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$44,811,600 |
| Current Approved Lifetime Budget | \$52,614,859 |
| Lifetime Budget Increase/Decrease | \$7,803,259 |
| Allocated Labor as of FY 2016 | \$325,932 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2,324 | 2,834 | 4,204 | 1,232 | 2,968 | 1,583 | 31 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 5,050 | 28,199 | 4,576 | 1,066 | 9,248 | 4,476 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: IM - Creekbed Sewer Rehabilitation 3²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Health Safety

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2024 |

Project Description:

This project consists of multiple jobs to protect infrastructure in the vicinity of streams and creeks located throughout the District. The project intends to relocate and rehabilitate manholes and sewer pipes vulnerable to flooding or erosion and infrastructure exposed to or adjacent to surface waters. The project also includes the rehabilitation of outfalls and other tasks required to protect exposed sewers due to stream bank erosion.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$19,435,000 |
| Current Approved Lifetime Budget | \$15,462,000 |
| Lifetime Budget Increase/Decrease | (\$3,973,000) |
| Allocated Labor as of FY 2016 | \$25,109 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 68 | 114 | 201 | 191 | 700 | 517 | 999 | 3,109 | 301 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 2,520 | 1,865 | 30 | 0 | 2,086 | 565 | 4,904 | 3,492 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: IN - Upper East Side Trunk Sewer Rehab
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2022 |

Project Description:

This project will be a multi job project for the rehabilitation of the Upper East Side Trunk Sewer. Job IN01 is associated with the cleaning and pre- and post-CCTV inspection of part of the Upper East Side Interceptor (ESI) located between the Arboretum and the intersection of this interceptor with the Northeast Boundary Trunk Sewer (NEBT). The section has a total length of approximately 6,370 linear feet. Job IN02 will rehabilitate the ESI by relining the pipe utilizing the appropriate methodology and reinstating service connections.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$18,250,000 |
| Current Approved Lifetime Budget | \$19,001,740 |
| Lifetime Budget Increase/Decrease | \$751,740 |
| Allocated Labor as of FY 2016 | \$67,794 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 252 | 33 | 494 | 682 | 188 | 2,745 | 3,876 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 252 | 2,018 | 0 | 1,257 | 354 | 15,121 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: IQ - Slash Run Sewer Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2022 |
| Completion: | FY 2024 |

Project Description:

This project addresses one of the major sewer rehabilitation projects listed in the 2009 Sewer System Facilities Plan (SSFP). This project is intended to rehabilitate and repair Slash Run sewer as one aspect of the Service Life Improvement Plan.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$10,000,000 |
| Current Approved Lifetime Budget | \$10,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 383 | 1,550 | 3,331 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 900 | 9,100 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: IR - Anacostia Main Interceptor Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2025 |

Project Description:

This project involves the rehabilitation of the Anacostia Main Interceptor (AMI) in three distinct phases as outlined in the 2009 Sewer System Facilities Plan (SSFP). The request is for the first phase of the proposed rehabilitation of the AMI which is located between Benning Road and East Capitol Street, NE (Job IR01). This phase includes the lining of approximately 4,590 linear feet of sewer pipe, hydraulically cleaning the entire line, repairing service connections, manhole rehabilitation and conducting pre- and post-remediation inspections.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$15,000,000 |
| Current Approved Lifetime Budget | \$14,250,000 |
| Lifetime Budget Increase/Decrease | (\$750,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,170 | 2,088 | 4,026 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,600 | 11,650 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: J0 - B St/New Jersey Ave Trunk Sewer Rehab³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2004 |
| Completion: | FY 2021 |

Project Description:

This project involves a condition assessment and conceptual design for repair of the B Street / New Jersey Avenue trunk sewer. This project identifies the structural integrity of the sewer system, and develops adequate and cost effective repair approaches. This project increases the reliability, restores the integrity, and maintains the capacity of the sewer.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 85.64% |
| EPA/Fed - | 0.00% |
| WSSC - | 14.36% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$16,199,995 |
| Current Approved Lifetime Budget | \$16,199,995 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$33,556 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 588 | 98 | 577 | 3,907 | 1,213 | 16 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 587 | 300 | 15,313 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

3 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: J1 - Oxon Run Sewer Rehabilitation ³
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2004 |
| Completion: | FY 2025 |

Project Description:

This project assesses the condition and develops needed repairs for a segment of sewer that crosses Oxon Run. This project will increase the reliability, restore the integrity, stop leakage from the pipe, and maintain the capacity of the sewer.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 27.84% |
| EPA/Fed - | 0.00% |
| WSSC - | 72.16% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|---------------|
| Previous Approved Lifetime Budget | \$36,050,958 |
| Current Approved Lifetime Budget | \$30,050,958 |
| Lifetime Budget Increase/Decrease | (\$6,000,000) |
| Allocated Labor as of FY 2016 | \$104,751 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,136 | 97 | 414 | 602 | 234 | 295 | 976 | 3,080 | 5,784 | 2,562 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,815 | 0 | 2,786 | 0 | 1,362 | 0 | 24,088 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

3 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: JK - Little Falls Rehabilitation Project ⁴
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2029 |

Project Description:

This project to rehabilitate and repair the Little Run Trunk Sewer is one aspect of the Service Life Improvement Program outlined in the Sewer System Facilities Plan (SSFP). After the inspection, evaluation, and prioritization is completed by the sewer inspection team, sewer segments would be rehabilitated using an appropriate lining method and include any necessary cleaning and point repairs.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$4,000,000 |
| Current Approved Lifetime Budget | \$4,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 37 | 149 | 1,243 | 425 | 0 | 0 | 0 | 0 | 2,146 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 400 | 600 | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

⁴ Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: JM - Northwest Major Sewer Rehabilitation
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2022 |

Project Description:

This project consists of combined sewer rehabilitation projects listed in the 2009 Sewer System Facilities Plan (SSFP). The proposed Job JM01 (Northwest Boundary Trunk Sewer (NWBT) Rehabilitation) focuses on reducing inflow and infiltration (I/I) for approximately 7,625 linear feet of NWBT sewer. Efforts will include identifying sources of I/I prior to planning and implementing long-lasting remedial measures. Defective service connections and manholes will also be repaired.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$7,000,000 |
| Current Approved Lifetime Budget | \$7,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 272 | 1,018 | 2,033 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 700 | 6,300 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: LZ - Potomac Interceptor - Rehab Ph 2²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2028 |

Project Description:

This project will provide funding to rehabilitate segments of the Potomac Interceptor (PI) Sewer after the inspection, evaluation, and prioritization is determined by the Potomac Interceptor Sewer Inspection Program. Sewer segments would be rehabilitated using appropriate rehabilitation technology and include any necessary cleaning and point repairs. The project will include engineering services for the design, permitting, bid, and construction phases and funding for capital construction, construction management, and site access planning. The funding will also install flow meters and rain gauge systems to monitor real-time flow and rainfall rates to facilitate rehabilitation along the PI. Funding will also be used to develop a program that will monitor the Hydrogen Sulfide levels in the Potomac Interceptor (PI) Sewer for a period of 5 years. The program will evaluate the effectiveness of the Potomac Interceptor Long Term Odor Control projects. This will include the establishment of permanent monitoring stations as well as recommendations on how to further reduce Hydrogen Sulfide and related corrosion and odor.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 3.29% |
| EPA/Fed - | 0.00% |
| WSSC - | 34.02% |
| Fairfax - | 39.97% |
| Loudoun/PI - | 22.71% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$79,273,402 |
| Current Approved Lifetime Budget | \$99,189,968 |
| Lifetime Budget Increase/Decrease | \$19,916,566 |
| Allocated Labor as of FY 2016 | \$25,034 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Budget | 388 | 1,042 | 1,612 | 7,119 | 1,295 | 4,514 | 5,655 | 5,410 | 6,242 | 2,294 | 3,401 | 7,796 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,250 | 5,378 | 19,439 | 4,468 | 10,702 | 4,979 | 19,321 | 12,906 | 1,664 | 7,124 | 6,500 | 5,460 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: N7 - Potomac Sewer System Rehab.
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: High Profile, Good Neighbor Policy

| Project Dates | |
|----------------------|---------|
| Start: | FY 2000 |
| Completion: | FY 2019 |

Project Description:

This project provides odor control, sewer modifications, and rehabilitation of the Potomac Interceptor (PI) system. This project consists of eight jobs to control odors, and rehabilitate and modify manholes, sewer pipe, sewer vents, and other related components of the PI system. Implementation of this project will reduce odor complaints, maintain and restore structural integrity, and maintain the design hydraulic capacity of the sewer.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 10.39% |
| EPA/Fed - | 0.00% |
| WSSC - | 28.48% |
| Fairfax - | 36.62% |
| Loudoun/PI - | 24.51% |

| | |
|--|----------------|
| Previous Approved Lifetime Budget | \$67,626,049 |
| Current Approved Lifetime Budget | \$48,019,116 |
| Lifetime Budget Increase/Decrease | (\$19,606,933) |
| Allocated Labor as of FY 2016 | \$1,883,897 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 41,892 | 372 | 52 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 47,719 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

3 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, derived in accordance with both the Blue Plains IMA of 1985 and the Blue Plains IMA of 2012 and the adopted Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation' dated June 20, 2013 .

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: O4 - Southwest Interceptor Inspection/Rehab
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2028 |

Project Description:

The Southwest Interceptor Rehabilitation project includes the cleaning and localized repair of approximately 5,600 linear feet of the Southwest Interceptor. There are about fifteen known localized defects including broken pipes, holes, various forms of infiltration, and deposits. Investigation of sources of leakage before repairs are implemented will be mandatory and other activities will include repairing service connections and manholes and pre- and post-remediation closed-circuit television (CCTV) inspection. It is noted that the lower portion of this sewer is located under Nationals Stadium.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$4,530,000 |
| Current Approved Lifetime Budget | \$4,530,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 46 | 85 | 216 | 1,710 | 129 | 0 | 0 | 0 | 2,344 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 110 | 350 | 4,070 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: O7 - East Rock Creek Diversion Inspect/Rehab
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2025 |
| Completion: | FY 2026 |

Project Description:

The East Rock Creek Diversion Sewer provides relief to the Potomac Interceptor and the Rock Creek Main Interceptor. This project includes the inspection and rehabilitation of approximately 18,000 linear feet. Investigation of leakage sources before repairs are implemented will be mandatory. Other activities will include repairing service connections and manholes and pre- and post-remediation closed-circuit television (CCTV) inspection.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$6,600,000 |
| Current Approved Lifetime Budget | \$6,600,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 251 | 1,248 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 6,100 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: OA - West Rock Creek Diversion Inspect/Rehab
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2025 |

Project Description:

The West Rock Creek Diversion Sewer provides relief to the Rock Creek Main Interceptor. This project includes the inspection and rehabilitation of approximately 9,000 linear feet. Investigation of sources of leakage before repairs are implemented will be mandatory and other activities will include repairing service connections and manholes and pre- and post-remediation closed-circuit television (CCTV) inspection.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$3,810,000 |
| Current Approved Lifetime Budget | \$3,810,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,810 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: PJ - Re-Activation Of Anacostia Force Main ²
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2020 |

Project Description:

This project is to rehabilitate the old Anacostis Force Main (AFM) so that it can behave as a relief sewer for the 108-inch diameter AFM. The AFM extends 32,700 linear feet from the Maryland / District border to its terminus near South Capital Street and Firth Sterling Ave, SE and is within National Park Service property (NPS). The AFM carries approximately 244 MGD (1/3 of WSSC's wastewater flow) to Blue Plains. This critical sewer consists largely of pre-stressed concrete cylinder pipe (PCCP) which has a history of failures throughout the industry.

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 15.40% |
| EPA/Fed - | 0.00% |
| WSSC - | 84.60% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$20,000,000 |
| Current Approved Lifetime Budget | \$20,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3 | 209 | 143 | 2,257 | 5,923 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 20 | 580 | 550 | 18,850 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

2 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted is, or will be, based on the Blue Plains IMA of 2012 and the adopted June 20, 2013 Technical Memorandum No. 1 'Multi Jurisdictional Use Facilities - Capital Cost Allocation'.

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: PU - Easby Point Trunk Sewer
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2024 |

Project Description:

This project is to rehabilitate 9,940 linear feet of the Easby Point Trunk Sewer. Currently, there is a need to perform a current inspection of these assets as the basis for development of a Condition Assessment Report to commence rehabilitation design. These inspections will evaluate any further deterioration and identify immediate repairs required. This project provides funding for the immediate repairs identified to prevent further deterioration between the current inspection and the proposed rehabilitation (typically at least three years, but possibly longer depending on funding).

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$7,000,000 |
| Current Approved Lifetime Budget | \$7,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 213 | 419 | 2,472 | 464 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 1,200 | 5,800 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Sanitary Sewer Service Area
Program Title: Interceptor/Trunk/Force Sewers
Project ID/Project Title: PV - Broad Branch Trunk Sewer
Managing Department: Engineering and Technical Services
EPMC: Sewer Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2025 |
| Completion: | FY 2029 |

Project Description:

This project is to rehabilitate 18,100 linear feet of the Broad Branch Trunk and Relief Sewer. Currently, there is a need to perform an inspection of these assets as the basis for development of a Condition Assessment Report to commence rehabilitation design. These inspections will evaluate any further deterioration and identify immediate repairs required. This project provides funding for the immediate repairs identified to prevent further deterioration between the current inspection and the proposed rehabilitation (typically at least three years, but possibly longer depending on funding).

Impact on Operations:

This project would incrementally reduce operating costs by eliminating emergency repair costs of the rehabilitated infrastructure, as planned sewer replacement or repair costs are typically lower than emergency repair costs.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$13,000,000 |
| Current Approved Lifetime Budget | \$13,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,068 | 2,098 | 9,835 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,200 | 10,800 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: MW - Small Diameter Water Main Rehab 4
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2007 |
| Completion: | FY 2016 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe provided the pipe is in sound condition. It includes the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program serves to gradually replace deteriorated pipe and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 77.40% |
| EPA/Fed - | 22.60% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|--------------------|
| Previous Approved Lifetime Budget | \$7,713,453 |
| Current Approved Lifetime Budget | \$7,709,000 |
| Total DC Water Allocated Labor | \$226,383 |
| Total Project Cost | \$7,935,473 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 7,709 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 7,709 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: MX - Small Diameter Water Main Rehab 5
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2007 |
| Completion: | FY 2016 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants replacement, or to clean and line unlined cast iron pipe provided the pipe is in serviceable condition. Also included is the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program will serve to gradually replace pipe that has exceeded the useful service life, improve available fire flows, and remove corrosion by-products from the inside of the pipe improving water quality and reducing the potential for creation of biofilms and bacteriological activity that can impair the quality of potable water.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 54.96% |
| EPA/Fed - | 45.04% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|--|---------------|
| Previous Approved Lifetime Budget | \$11,164,643 |
| Current Approved Lifetime Budget | \$9,030,055 |
| Total DC Water Allocated Labor | \$596,150 |
| Total Project Cost | \$9,675,878 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 9,080 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 9,030 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: N9 - Small Diameter Water Main Rehab 7
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2015 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants replacement, or to clean and line unlined cast iron pipe provided the pipe is in serviceable condition. Also included is the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program will serve to gradually replace pipe that has exceeded the useful service life, improve available fire flows, and remove corrosion by-products from the inside of the pipe improving water quality and reducing the potential for creation of biofilms and bacteriological activity that can impair the quality of potable water.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 35.50% |
| EPA/Fed - | 64.50% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|--|---------------|
| Previous Approved Lifetime Budget | \$19,002,880 |
| Current Approved Lifetime Budget | \$16,957,017 |
| Total DC Water Allocated Labor | \$945,558 |
| Total Project Cost | \$17,902,575 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 16,957 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 16,957 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: BZ - Large Valve Repl. (Contracts 8 - 9 & 10)
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2017 |

Project Description:

Replacement of approximately 60 broken large diameter valves under separate contracts throughout the water distribution system. Replacement of inoperable valves will improve the reliability of the system by reducing the number of valves that would need to be closed under emergency conditions. Increasing the number of operable valves in the system will also reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 56.28% |
| EPA/Fed - | 43.72% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$12,703,316 |
| Current Approved Lifetime Budget | \$12,703,316 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$1,184,738 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 9,050 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 12,703 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: C9 - Large Diameter Water Mains I
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2020 |

Project Description:

This project is to replace/rehabilitate large diameter (16-inch and larger) pipe based upon age, break history and condition assessment information. The project is part of the large diameter water main program included in the draft Water System Facility Plan Update.

Impact on Operations:

This project will have no material impact in the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$19,250,668 |
| Current Approved Lifetime Budget | \$19,250,668 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$44,431 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,627 | 284 | 1,200 | 5,979 | 2,030 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 3,901 | 800 | 8,580 | 5,970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: DE - Small Diameter Water Main Rehab 12
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2020 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$39,850,000 |
| Current Approved Lifetime Budget | \$39,850,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$568,332 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 2,523 | 4,647 | 8,824 | 3,784 | 1,432 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 7,375 | 26,085 | 6,390 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: FI - Small Diameter Water Main Rehab I3
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2020 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$32,770,000 |
| Current Approved Lifetime Budget | \$31,170,000 |
| Lifetime Budget Increase/Decrease | (\$1,600,000) |
| Allocated Labor as of FY 2016 | \$146,973 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 109 | 450 | 8,061 | 8,378 | 534 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,915 | 8,020 | 21,235 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: F2 - Small Diameter Water Main Rehab I4
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2017 |
| Completion: | FY 2021 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$40,470,000 |
| Current Approved Lifetime Budget | \$40,470,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 657 | 415 | 9,199 | 10,162 | 286 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 5,850 | 11,915 | 22,705 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: F6 - Steel Water Main Rehab - Phase I
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2020 |

Project Description:

This project is to rehabilitate, replace and/or install cathodic protection systems on high priority large diameter steel water mains, where there is a near-term need to mitigate the effects of corrosion degradation on these critical pipelines based upon recent evaluations.

Impact on Operations:

This project will have some impact on the operating budget to maintain installed cathodic protection systems.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 72.27% |
| EPA/Fed - | 27.73% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$11,954,281 |
| Current Approved Lifetime Budget | \$9,944,281 |
| Lifetime Budget Increase/Decrease | (\$2,010,001) |
| Allocated Labor as of FY 2016 | \$682,016 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 5,167 | 48 | 122 | 1,361 | 804 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 5,247 | 1,177 | 3,520 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: FE - 20 Low Service Main & PRV
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2012 |
| Completion: | FY 2018 |

Project Description:

This project includes the installation of approximately 4,700 linear feet of 20-inch water main in the Low Service Area and a pressure reducing valve (PRV) between the 1st High and the Low Service Areas. The existing Low Service 20-inch main will be extended from the intersection of 17th and C Streets, NE to the intersection of Potomac Avenue, G Street and Kentucky Avenue, SE where it will connect to the existing Low Service 30-inch water main.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$8,008,289 |
| Current Approved Lifetime Budget | \$8,008,289 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$504,242 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 4,318 | 863 | 266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 7,158 | 850 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: FT - Water Mains Rehab Phase II
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2024 |

Project Description:

This project is to replace/rehabilitate large diameter (16-inch and larger) pipe based upon age, break history and condition assessment information. The project is part of the large diameter water main program included in the draft Water System Facility Plan Update.

Impact on Operations:

Regular inspections and testing of CP systems would be required in the future, which would impact the operating budget. Temporary outages of large diameter pipelines due to assessment and/or construction activities will require coordination and adjustments to operations.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$43,850,000 |
| Current Approved Lifetime Budget | \$39,980,000 |
| Lifetime Budget Increase/Decrease | (\$3,870,000) |
| Allocated Labor as of FY 2016 | \$25,206 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 570 | 687 | 2,071 | 5,477 | 3,473 | 2,766 | 4,193 | 3,646 | 776 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 5,790 | 2,160 | 6,970 | 8,130 | 1,840 | 5,120 | 8,970 | 1,000 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: GQ - Fire Hydrant Replacement Program - Ph II
Managing Department: Water Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2021 |

Project Description:

This project provides funding for the replacement and upgrade of fire hydrants in the District. It is expected that approximately 2,700 broken and older model type fire hydrants will be replaced and 2,700 will be upgraded under this project if accepted by The District of Columbia under the October 2007 Memorandum of Understanding. This program is expected to be totally reimbursed by The District Government and will not impact retail rate payers.

Impact on Operations:

This project will have no material impact on the DC Water operating budget, because the maintenance cost of fire hydrants is reimbursed by the District.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$28,244,481 |
| Current Approved Lifetime Budget | \$28,244,481 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$808,535 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 7,268 | 471 | 151 | 85 | 31 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 14,305 | 1,753 | 2,861 | 2,948 | 3,035 | 3,125 | 217 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: GR - Small Diameter Water Main Rehab I5
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2022 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$39,750,000 |
| Current Approved Lifetime Budget | \$39,750,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 857 | 1,335 | 5,823 | 8,877 | 2,459 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 10,380 | 29,370 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: GX - Large Dia. Water Main Repl. II
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2029 |

Project Description:
 This project is to replace or rehabilitate large diameter (16-inch and larger) water mains. The objective of this project is to rehabilitate large diameter mains when the pipe is in sound condition or to replace it if the condition warrants.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$23,180,000 |
| Current Approved Lifetime Budget | \$23,180,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 404 | 2,062 | 4,697 | 11,537 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,850 | 21,330 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: HX - Small Diameter Water Main Rehab I6
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2023 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$37,350,000 |
| Current Approved Lifetime Budget | \$37,350,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 3,161 | 1,963 | 6,235 | 9,592 | 2,651 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 9,738 | 27,612 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: 18 - Large Valve Replacement (Contract 11-13)
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2012 |
| Completion: | FY 2019 |

Project Description:

This project includes the replacement of existing, or installation of new large diameter valves of varying types (including Pressure Reducing Valves (PRVs), Air/Vac Valves, etc.) under separate contracts throughout the water distribution system. Replacement of inoperable valves and installation of new valves will improve system reliability, improve system hydraulics and reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 77.74% |
| EPA/Fed - | 22.26% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$18,548,979 |
| Current Approved Lifetime Budget | \$18,548,979 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$659,986 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 5,399 | 2,318 | 812 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 18,549 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: IB - Large Valve Replacement (Contract 17-19)
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2024 |

Project Description:

This project includes the replacement of existing, or installation of new large diameter valves of varying types (including Pressure Reducing Valves (PRVs), Air/Vac Valves, etc.) under separate contracts throughout the water distribution system. Replacement of inoperable valves and installation of new valves will improve system reliability, improve system hydraulics and reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$20,130,000 |
| Current Approved Lifetime Budget | \$20,130,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 35 | 210 | 1,450 | 3,201 | 3,312 | 2,049 | 118 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 550 | 560 | 6,550 | 6,140 | 6,330 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: J7 - Small Diameter Water Main Rehab 17
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2024 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$46,650,000 |
| Current Approved Lifetime Budget | \$46,650,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 4,651 | 2,596 | 7,891 | 12,022 | 3,295 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 13,380 | 33,270 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: JZ - Large Dia Water Main Repl 3 - 4 & 5
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2027 |

Project Description:

This project is to replace/rehabilitate large diameter (16-inch and larger) pipe based upon age, break history and condition assessment information. The project is part of the large diameter water main program included in the draft Water System Facility Plan Update.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$63,710,000 |
| Current Approved Lifetime Budget | \$63,710,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 302 | 1,265 | 5,870 | 12,664 | 14,124 | 9,264 | 2,310 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 1,720 | 20,760 | 21,350 | 19,880 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: K7 - Large Dia Water Main Repl 6 - 7 & 8
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2030 |

Project Description:

This project is to replace/rehabilitate large diameter (16-inch and larger) pipe based upon age, break history and condition assessment information. The project is part of the large diameter water main program included in the draft Water System Facility Plan Update.

Impact on Operations:

This project will have no material impact in the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$69,920,000 |
| Current Approved Lifetime Budget | \$69,920,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 368 | 1,526 | 6,914 | 50,308 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,880 | 22,680 | 23,360 | 22,000 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: KA - Large Valve Repl Contracts 20 - 21 & 22
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2027 |

Project Description:

This project includes the replacement of existing, or installation of new large diameter valves of varying types (including Pressure Reducing Valves (PRVs), Air/Vac Valves, etc.) under separate contracts throughout the water distribution system. Replacement of inoperable valves and installation of new valves will improve system reliability, improve system hydraulics and reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$17,610,000 |
| Current Approved Lifetime Budget | \$17,610,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 49 | 269 | 1,792 | 3,920 | 4,016 | 2,378 | 132 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 480 | 490 | 5,720 | 5,380 | 5,540 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: KB - Large Valve Repl Contracts 23 - 24 & 25
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2029 |

Project Description:

This project includes the replacement of existing, or installation of new large diameter valves of varying types (including Pressure Reducing Valves (PRVs), Air/Vac Valves, etc.) under separate contracts throughout the water distribution system. Replacement of inoperable valves and installation of new valves will improve system reliability, improve system hydraulics and reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$19,220,000 |
| Current Approved Lifetime Budget | \$19,220,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 326 | 2,372 | 13,433 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 520 | 6,220 | 6,420 | 6,060 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: KE - Small Diameter Water Main Rehab 18
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2025 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$46,340,000 |
| Current Approved Lifetime Budget | \$46,340,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 4,332 | 2,681 | 8,425 | 12,811 | 3,500 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 12,070 | 34,270 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: KF - Small Diameter Water Main Rehab 19
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2022 |
| Completion: | FY 2026 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$47,730,000 |
| Current Approved Lifetime Budget | \$47,730,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 4,766 | 2,891 | 9,006 | 13,606 | 3,621 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 12,440 | 35,290 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: KG - Small Diameter Water Main Rehab 20
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2027 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$49,160,000 |
| Current Approved Lifetime Budget | \$49,160,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,305 | 3,107 | 9,678 | 14,016 | 4,392 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12,810 | 36,350 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: KH - Small Diameter Water Main Rehab 21
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2028 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact in the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$50,640,000 |
| Current Approved Lifetime Budget | \$50,640,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,784 | 3,222 | 5,394 | 11,423 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13,190 | 37,450 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: KI - Small Diameter Water Main Rehab 22
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2025 |
| Completion: | FY 2029 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact in the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$52,160,000 |
| Current Approved Lifetime Budget | \$52,160,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,894 | 3,635 | 34,590 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13,590 | 38,570 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: MU - Small Diameter Water Main Rehab 2
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2002 |
| Completion: | FY 2017 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants replacement, or to clean and line unlined cast iron pipe provided the pipe is in serviceable condition. Also included is the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program will serve to gradually replace pipe that has exceeded the useful service life, improve available fire flows, and remove corrosion by-products from the inside of the pipe, improving water quality and reducing the potential for creation of biofilms and bacteriological activity that can impair the quality of potable water.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$15,043,352 |
| Current Approved Lifetime Budget | \$15,043,352 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$803,611 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 11,779 | 543 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 15,043 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: MV - Small Diameter Water Main Rehab 3
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2006 |
| Completion: | FY 2020 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe provided the pipe is in sound condition. It includes the replacement of appurtenances, such as valves, fire hydrants and house service lines. The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 49.34% |
| EPA/Fed - | 50.66% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$15,623,724 |
| Current Approved Lifetime Budget | \$15,623,724 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$783,232 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 12,497 | 33 | 66 | 646 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 13,871 | 0 | 1,752 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: NA - Clean & Line 20 4th High Wtrmain
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2002 |
| Completion: | FY 2018 |

Project Description:

This project is to install approximately 2,000 linear feet of 20-inch diameter water main in the 4th High Service Area, to relocate portions of the existing 20-inch cast iron water main from private properties to public space.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$4,556,283 |
| Current Approved Lifetime Budget | \$4,556,283 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$168,403 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,066 | 234 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 4,556 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: O0 - Small Diameter Water Main Rehab 8
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2019 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 47.93% |
| EPA/Fed - | 52.07% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$20,698,646 |
| Current Approved Lifetime Budget | \$20,680,842 |
| Lifetime Budget Increase/Decrease | (\$17,804) |
| Allocated Labor as of FY 2016 | \$1,356,280 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 19,708 | 37 | 38 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 20,681 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: O1 - Small Diameter Water Main Rehab 9
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2012 |
| Completion: | FY 2018 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 88.49% |
| EPA/Fed - | 11.51% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$24,986,852 |
| Current Approved Lifetime Budget | \$24,986,852 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$1,901,340 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 16,670 | 2,278 | 210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 24,987 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: O2 - Small Diameter Water Main Rehab 10
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2019 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$36,842,024 |
| Current Approved Lifetime Budget | \$36,842,024 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$2,712,274 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 27,002 | 2,582 | 1,586 | 382 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 31,680 | 5,162 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: O3 - Small Diameter Water Main Rehab I I
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2018 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe provided the pipe is in sound condition. Work includes the elimination of dead end pipelines in the system, reconfiguration of inefficient alignments, and the replacement of appurtenances, such as valves, fire hydrants and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other similar work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality. The I I b contract consists of replacement of 8-inch water mains at a number of locations.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | | | |
|--------------|---------|--|--------------|
| DC - | 100.00% | Previous Approved Lifetime Budget | \$38,897,024 |
| EPA/Fed - | 0.00% | Current Approved Lifetime Budget | \$38,957,024 |
| WSSC - | 0.00% | Lifetime Budget Increase/Decrease | \$60,000 |
| Fairfax - | 0.00% | Allocated Labor as of FY 2016 | \$881,000 |
| Loudoun/PI - | 0.00% | | |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 5.586 | 13.054 | 4.082 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 34.302 | 4.655 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: PK - Large Meter Vault And Piping Improve
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2017 |

Project Description:
 Construction of a large meter vault and piping improvements in the vicinity of Key Bridge to measure the flows in a 16-inch and a 30-inch mains that feed the Pentagon, Arlington Cemetery and the Reagan National Airport.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-----------|
| Previous Approved Lifetime Budget | \$980,000 |
| Current Approved Lifetime Budget | \$980,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$1,125 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 9 | 461 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 110 | 870 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: S3 - Large Valve Replacement (Contract 3-7)
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 1999 |
| Completion: | FY 2017 |

Project Description:

This project replaces approximately 100 inoperable large diameter valves throughout the distribution system. This project includes four separate valve replacement contracts. Replacement of inoperable valves will improve the reliability of the system by reducing the number of valves that would need to be closed under emergency conditions. Increasing the number of operable valves in the system will also reduce the number of customers that may be impacted during emergency conditions.

Impact on Operations:

This project will have no material impact on the operating budget, but it will improve valve operations efficiency during shutdown of large diameter water mains.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 61.07% |
| EPA/Fed - | 38.93% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$23,099,692 |
| Current Approved Lifetime Budget | \$23,099,692 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$3,406,495 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 21,689 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 23,100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: S5 - Large Dia Wtrmain Int. Repairs
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2001 |
| Completion: | FY 2017 |

Project Description:

This project includes the installation of internal pipe joint repairs to approximately 50,000 linear feet of large diameter water mains with a high frequency of joint leakage. This project also includes the cleaning and lining of approximately 5,000 linear feet of 20-inch cast iron pipe prior to the installation of internal joint seals. This project will eliminate the costly repairs and need to temporarily shutdown these mains to undertake the repairs associated with joint leaks.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 77.97% |
| EPA/Fed - | 22.03% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$16,972,404 |
| Current Approved Lifetime Budget | \$16,972,404 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$1,260,541 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 13,429 | 449 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 16,972 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Distribution Systems
Project ID/Project Title: KJ - Small Diameter Water Main Rehab 23
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2026 |
| Completion: | FY 2030 |

Project Description:

This annual project is for the rehabilitation of small diameter (12-inch and smaller) water pipe. The objective is to replace pipe when the condition warrants, or to clean and line unlined cast iron pipe if in sound condition. Work includes the elimination of dead end pipelines in the system, and the replacement of appurtenances, such as valves, fire hydrants, and house service lines. To minimize public inconvenience caused by construction work and to save DC Water the paving cost, this project also includes water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). The program serves to gradually replace deteriorated pipe, and improve available fire flows and water quality.

Impact on Operations:

This project will have no material impact on the operating budget. However, replacing the aging pipe should reduce the number of break repairs in the future.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | NEW |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$53,720,000 |
| Lifetime Budget Increase/Decrease | \$53,720,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,134 | 40,095 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14,000 | 39,720 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Lead Program
Project ID/Project Title: BW - Lead Service Replacement Program
Managing Department: Engineering and Technical Services
EPMC: Lead Services Program Manager
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2003 |
| Completion: | FY 2026 |

Project Description:

Replacement of approximately 30,050 lead water service lines with copper piping throughout the water distribution system. The Lead Service Replacement Program started in FY 2004 and will continue in conjunction with scheduled water main replacement and DDOT road work (new FY 2008 policy). This project replaces lead service lines within Public Space and offers the property owner the option to replace the lead service on private property at cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 93.13% |
| EPA/Fed - | 6.87% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$208,640,000 |
| Current Approved Lifetime Budget | \$208,939,999 |
| Lifetime Budget Increase/Decrease | \$299,999 |
| Allocated Labor as of FY 2016 | \$4,373,262 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 147,673 | 1,050 | 720 | 1,345 | 1,820 | 2,063 | 2,321 | 2,537 | 2,536 | 2,964 | 1,112 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 154,793 | 6,261 | 4,957 | 5,277 | 5,751 | 6,012 | 6,288 | 6,400 | 6,500 | 6,700 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: CC - FY2012 - DWS Water Projects
Managing Department: Water Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2012 |
| Completion: | FY 2016 |

Project Description:

This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|--------------------|
| Previous Approved Lifetime Budget | \$8,281,738 |
| Current Approved Lifetime Budget | \$8,281,738 |
| Total DC Water Allocated Labor | \$58,341 |
| Total Project Cost | \$8,166,634 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 8,108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 8,282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: CP - FY2013 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2015 |

Project Description:
 This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:
 This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|--------------------|
| Previous Approved Lifetime Budget | \$8,830,176 |
| Current Approved Lifetime Budget | \$8,830,176 |
| Total DC Water Allocated Labor | \$139,591 |
| Total Project Cost | \$7,393,583 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 7,254 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 8,830 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: D5 - FY2014 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2017 |

Project Description:
 This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:
 This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$10,146,589 |
| Current Approved Lifetime Budget | \$10,146,589 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$162,446 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 8,635 | 889 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 10,147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: DG - FY2015 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2017 |

Project Description:
 This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:
 This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$9,630,000 |
| Current Approved Lifetime Budget | \$9,630,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 6,635 | 1,648 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 9,630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: DY - FY2016 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2015 |
| Completion: | FY 2017 |

Project Description:

This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$9,630,000 |
| Current Approved Lifetime Budget | \$9,630,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 7,482 | 1,399 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 9,630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: FK - FY2017 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2018 |

Project Description:
 This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:
 This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$9,630,000 |
| Current Approved Lifetime Budget | \$9,630,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 6,707 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 9,630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: GS - FY2018 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2019 |

Project Description:

This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$9,630,000 |
| Current Approved Lifetime Budget | \$9,630,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 6,790 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 9,630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: HY - FY2019 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2020 |

Project Description:

This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$9,630,000 |
| Current Approved Lifetime Budget | \$9,630,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 7,415 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 9,630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: JA - FY2020 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2021 |

Project Description:

This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$9,630,000 |
| Current Approved Lifetime Budget | \$9,630,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 6,835 | 840 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 9,630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: KW - FY2021 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2022 |

Project Description:
 This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:
 This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$9,630,000 |
| Current Approved Lifetime Budget | \$9,630,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 6,396 | 1,194 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 9,630 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: KX - FY2022 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2022 |
| Completion: | FY 2023 |

Project Description:

This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$9,664,000 |
| Current Approved Lifetime Budget | \$9,664,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 6,081 | 1,142 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 9,664 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: KY - FY2023 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2023 |
| Completion: | FY 2024 |

Project Description:

This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$10,150,000 |
| Current Approved Lifetime Budget | \$10,150,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,224 | 1,147 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,150 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: KZ - FY2024 - DWS Water Projects
Managing Department: Water Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2025 |

Project Description:

This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will result in cost avoidance to future O & M budgets and improved customer service.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$10,451,700 |
| Current Approved Lifetime Budget | \$10,451,700 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,588 | 1,203 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,452 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: LI - FY2025 - DWS Water Projects
Managing Department: Water Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2025 |
| Completion: | FY 2026 |

Project Description:

This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will have no material impact in the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$10,780,000 |
| Current Approved Lifetime Budget | \$10,780,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,804 | 1,207 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10,780 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: On-Going
Project ID/Project Title: L2 - FY2026 - DWS Water Projects
Managing Department: Water Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2026 |
| Completion: | FY 2027 |

Project Description:

This project is for the annual program of planned projects by the Department of Water Services for the rehabilitation and improvement of the water distribution system. This project is needed to replace aged infrastructure to restore integrity and reliability of the water distribution system.

Impact on Operations:

This project will have no material impact on the operating budget. But, the project makes a moderate impact on risk reduction as timely repair of breaks prevents further complications.

Effective Funding by User (percent):

| | |
|---------------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | NEW |
|--|--------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$11,890,000 |
| Lifetime Budget Increase/Decrease | \$11,890,000 |
| Allocated Labor as of FY 2016 | \$0 |

| | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|-----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Disbursements Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,129 | 999 |
| Commitments Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11,890 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: M6 - Rehab. Bryant St. Pump Sta.
Managing Department: Engineering and Technical Services
EPMC: DETS - Engineering & Tech Services
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 1999 |
| Completion: | FY 2016 |

Project Description:

This project is to rehabilitate and upgrade the Bryant Street Pumping Station and the warehouse and shops building to meet current code requirements and maintain the reliability of the water distribution system. Project includes refurbishing 11 high lift pumps and replacing 11 electric motors mechanically coupled to the pumps; architectural improvements to the building; complete replacement of the heating, cooling and ventilating equipment; site improvements, dewatering, hydraulic loops; replacement of water mains at the site; and cathodic protection for a 48-inch steel water main. Also included in this project is some SCADA work for the water distribution system installed by DC Water IT services.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 70.66% |
| EPA/Fed - | 29.34% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | CLOSED |
|-----------------------------------|---------------------|
| Previous Approved Lifetime Budget | \$62,895,708 |
| Current Approved Lifetime Budget | \$61,152,776 |
| Total DC Water Allocated Labor | \$2,290,369 |
| Total Project Cost | \$63,468,640 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 61,178 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 61,153 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: AY - Upgrades to Ft. Reno Pumping Station
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2002 |
| Completion: | FY 2019 |

Project Description:

This project includes the replacement of pump controls, three existing Variable Frequency Drives, electrical switchgear and motor control centers, along with upgrades to the SCADA system at Fort Reno Pumping Station. The improvements also include the installation of: a surge suppression system at the Fort Reno Pumping Station; an altitude valve on Fort Reno Tank No. 2; installation of redundant instrumentation; security system upgrades; and 28 remote pressure monitoring stations at critical locations in the system to allow operators to monitor pressures in the distribution system. The main benefit of this project is increased pressures and improved system reliability supplying water to the 4th High Service Area west of Rock Creek Park.

Impact on Operations:

This project will have no material impact on the operating budget, but will improve system reliability and customer service.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 76.97% |
| EPA/Fed - | 23.03% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$13,549,267 |
| Current Approved Lifetime Budget | \$13,549,267 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$1,222,339 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 10,329 | 910 | 341 | 294 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 12,700 | 50 | 799 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: F8 - 16th & Alaska Ave Pump Sta Upgrades
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2018 |

Project Description:

This project provides upgrades to the 16th Street and Alaska Avenue Pumping Station to increase reliability and serviceability. Upgrades include: installation of a second suction and discharge headers; new Variable Frequency Drive (VFD) on the existing fourth constant speed pump; replacement of existing VFDs with new solid state equipment; replacement of existing instrumentation and controls with PLC based soft logic controls; installation of redundant instrumentation; security system upgrades; improvements to ventilation system for cooling of the station; and the provision of a second electric feeder to the pumping station.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 76.72% |
| EPA/Fed - | 23.28% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$4,879,186 |
| Current Approved Lifetime Budget | \$4,879,186 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$398,165 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,859 | 72 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 4,849 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: FD - Water Fac Security System Upgrades
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2020 |

Project Description:

This project is to upgrade security systems at the following facilities: Bryant Street Pumping Station, Soldiers Home Reservoir, Brentwood Reservoir, Anacostia Tank No. 1 (Boulevard Tank), Anacostia Tank No. 2 (Good Hope Tank) and Fort Stanton Reservoirs Site and Fort Reno Site.

Impact on Operations:

This project will have no material impact on the operating budget, however minor O & M costs for maintenance and monitoring of security cameras will occur in future budget years.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$2,067,179 |
| Current Approved Lifetime Budget | \$2,067,179 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$27,925 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 844 | 89 | 250 | 263 | 148 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 900 | 1,168 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: FH - Discharge Piping Bryant St. Pump Sta
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2019 |

Project Description:

This project provides for the replacement of six discharge pipes from the Bryant Street Pumping Station that are highly corroded. The discharge piping will be replaced from the cone valves inside the station to a point on Bryant Street away from the station site, to reduce the probability of a catastrophic pipe break next to the station wall and foundation.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$14,279,349 |
| Current Approved Lifetime Budget | \$14,279,349 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$981,797 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 12,620 | 144 | 12 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 14,279 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: HA - DWS Water Pumping Project
Managing Department: Water Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2017 |

Project Description:

This project will support the Department of Water Services Pumping Department maintenance program. Large, expensive, and long lived equipment needs to be periodically replaced due to wear or premature failure. Major pumps, motors, valves and related equipment will be replaced in each of the department's four pump stations as needed

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$1,560,000 |
| Current Approved Lifetime Budget | \$1,460,000 |
| Lifetime Budget Increase/Decrease | (\$100,000) |
| Allocated Labor as of FY 2016 | \$5,984 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 820 | 173 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,460 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: HI - Bryant Street Pump Station Phase III
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2024 |

Project Description:

This project provides for miscellaneous improvements and upgrades at the Bryant Street Pump Station. The proposed work includes, but is not limited to the following: pump control board upgrades; HVAC improvements, and replacement of roll-up doors and windows in the Pump Room; replacement of incandescent lights throughout the building with CFD/Halogen lighting systems; and floor drain improvements in the discharge piping area.

Impact on Operations:

This project will have no material impact in the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$5,920,000 |
| Current Approved Lifetime Budget | \$5,920,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 43 | 86 | 199 | 1,025 | 2,539 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 220 | 0 | 520 | 5,180 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: HR - Anacostia Pump Sta Improvements Ph II
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: High Profile, Good Neighbor Policy

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2025 |

Project Description:

This project provides for electrical, mechanical and instrumentation improvements at the Anacostia Pump Station. It also includes other miscellaneous improvements and repairs for the gratings, stairs and roof, and addresses the problem of rainwater infiltration at the lower level.

Impact on Operations:

This project will have no material impact in the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$4,700,000 |
| Current Approved Lifetime Budget | \$4,700,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 43 | 154 | 323 | 2,212 | 391 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 180 | 350 | 4,170 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: HV - Bryant St PS - Spill Header Flow Control
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2021 |

Project Description:

This project is to install seven actuated spillover Pressure Reducing Valves (PRVs) with flowmeter capabilities to replace existing manually operated PRVs that control spillover flow into the low service area, and to replace 24 globe valves with motor operated butterfly valves to allow full automation and remote control of the spillage header. The metering capability will allow operation to control flow being spilled into the 1st High, 2nd High and/or the low zones area more effectively.

Impact on Operations:

This project will have no material impact on the operating budget. However, the new flow meters will require regular maintenance causing some increase in the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$6,501,661 |
| Current Approved Lifetime Budget | \$6,501,661 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$203,865 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 599 | 17 | 15 | 842 | 2,077 | 370 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 857 | 0 | 0 | 5,645 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: JB - Bryant Street PS Improvements - Ph II
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2012 |
| Completion: | FY 2021 |

Project Description:

This project provides for improvements to HVAC systems at the Bryant Street Pumping Station and the Warehouse and Meter Shop Buildings to address system deficiencies and improve working conditions for the staff residing within these buildings. The HVAC improvements include some structural and controls modifications to the office space in the Warehouse and Meter Shop building. This project also provides for: replacement of the parking deck wearing surface and roof membrane and removal and reconstruction of top portions of the walls at the Warehouse and Shops building, and repair or replacement of select structural roof members, windows, gutters, flashing, sealant, roofing slate and masonry façade at the Bryant Street PS building.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$11,350,749 |
| Current Approved Lifetime Budget | \$11,735,749 |
| Lifetime Budget Increase/Decrease | \$385,000 |
| Allocated Labor as of FY 2016 | \$187,061 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,080 | 515 | 940 | 247 | 2,574 | 1,418 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,167 | 3,293 | 756 | 0 | 6,520 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: LT - Water System SCADA
Managing Department: Water Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2014 |
| Completion: | FY 2021 |

Project Description:

This project implements recommendations of the 2013 SCADA Master Plan. It is to add additional sites and also optimize the existing Water SCADA System. The initial focus will be to develop standards, implement changes needed for existing SCADA sites to conform to the standards, and perform system-wide testing to promote reliable monitoring and control of water system SCADA sites. New sites will be added such as: tanks, reservoirs, zone pressure monitoring, distribution valve monitoring, and water quality monitoring. In the future a fully optimized SCADA will move water operations from an operator-based automation system to a centralized computer decision system that forecasts demand and continuously calculates optimal system settings within established operating constraints. This is the direction envisioned in the SCADA Master Plan.

Impact on Operations:

The primary purpose of the SCADA System is to monitor the health of the distribution system and control water system equipment in order to meet water quality requirements and customer needs. Water and sewer operators need to understand alarms and see discrepancies between known field conditions and SCADA System displays. This affects operations ability to make effective operating decisions and respond appropriately to unexpected changes in system operation.

Effective Funding by User (percent):

| | |
|---------------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$8,137,036 |
| Current Approved Lifetime Budget | \$8,137,036 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$3,708 |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|-----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| | 448 | 395 | 165 | 1,324 | 2,109 | 713 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 901 | 600 | 6,136 | 0 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: LU - Water Facilities Security Sys Upgrades 2
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2016 |
| Completion: | FY 2022 |

Project Description:

This project is to upgrade security systems at water pumping stations, water storage reservoirs and elevated tanks, and other water distribution system structures and sites. Work consists of installing CCTV cameras, access card readers, intrusion sensors, fencing, network and communications, and other control surveillance devices and systems to protect the water facilities and infrastructure against vandalism, criminal activity, and possible future terrorism; as well as to protect DC Water personnel in accordance with the recommendations of the Vulnerability Assessment (VA) Study.

Impact on Operations:

This project will have no material impact on the operating budget, however minor O & M costs for maintenance and monitoring of security cameras will occur in future budget years.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$2,000,000 |
| Current Approved Lifetime Budget | \$2,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 34 | 167 | 354 | 327 | 174 | 92 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: M7 - Replacement of Anacostia PS
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: High Profile, Good Neighbor Policy

| Project Dates | |
|----------------------|---------|
| Start: | FY 2002 |
| Completion: | FY 2018 |

Project Description:

This project is to replace the 85 year old Anacostia Pumping Station to meet code requirements, add pumps for the new Anacostia First High South Service Area and maintain the reliability of the Anacostia 1st and 2nd High Service Area distribution system. It includes the installation of 3,000 feet of 30-inch water main to link the Anacostia Pumping Station to the Anacostia 1st High South Service Area. The new Pumping Station will have a capacity of 60 MGD and will be constructed on the same site as the original Pumping Station, which will remain in service until the new facility is completed and operational.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|---------------------|--------|
| DC - | 47.36% |
| EPA/Fed - | 52.64% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$33,433,974 |
| Current Approved Lifetime Budget | \$33,433,974 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$1,088,060 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 32,458 | 250 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 32,904 | 530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: OR - Fort Reno PS Improvements Ph II
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Potential Failure / Ability to continue meeting permit requirement

| Project Dates | |
|----------------------|---------|
| Start: | FY 2021 |
| Completion: | FY 2025 |

Project Description:
 This project provides for the replacement of pumps, motors, and VFD equipment at the Fort Reno Pump Station, along with other mechanical and electrical improvements.

Impact on Operations:
 This project will have no material impact in the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$6,430,000 |
| Current Approved Lifetime Budget | \$6,430,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 49 | 173 | 280 | 2,828 | 974 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 240 | 480 | 5,710 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: PS - Existing Water Facilities Bldg Optimization
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2022 |

Project Description:

To meet EPA guidelines for energy efficiency, water efficiency, sustainable buildings, renewable energy, safety requirements, and environmental management systems. All DC Water buildings, supporting water distribution should be upgraded to an integrated electronic Building Automation System for proper performance and remote control monitoring related with HVAC, Plumbing Elevators, and Life Safety Equipment. Water Distribution Buildings requiring upgrades are: Bryant Street Pumping Station, Anacostia Pumping Station and Fort Reno Pumping Station.

Impact on Operations:

This project will have no material impact in the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-----------|
| Previous Approved Lifetime Budget | \$695,000 |
| Current Approved Lifetime Budget | \$695,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 145 | 217 | 45 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 695 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Pumping Facilities
Project ID/Project Title: S6 - West Venturi Meter - Bryant St Pumping Station
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2018 |
| Completion: | FY 2021 |

Project Description:
 The project scope consists of replacing the existing west Venturi meter and constructing a new meter vault at BSPS facility.

Impact on Operations:
 Due to the accuracy of new Venturi meter, operational activity, billing accuracy and system reliability is expected to improve. By providing redundancy, DDCCS/DWS staff can perform effective system maintenance activities.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | NEW |
|-----------------------------------|------------|
| Previous Approved Lifetime Budget | \$0 |
| Current Approved Lifetime Budget | \$940,000 |
| Lifetime Budget Increase/Decrease | \$940,000 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 13 | 61 | 338 | 103 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 90 | 850 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: DDOT
Project ID/Project Title: B0 - FY2010 - DDOT Water Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2010 |
| Completion: | FY 2019 |

Project Description:

This project is the annual program of water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by DDOT. This project is needed to minimize public inconvenience caused by construction work and to save DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$17,171,132 |
| Current Approved Lifetime Budget | \$17,171,132 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$245,833 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 15,060 | 145 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 17,171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: DDOT
Project ID/Project Title: BN - FY2011 - DDOT Water Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2011 |
| Completion: | FY 2019 |

Project Description:

This project is for the annual program of water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). This project is needed to minimize public inconvenience caused by construction work and to save DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$8,738,342 |
| Current Approved Lifetime Budget | \$8,738,342 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$820,423 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,688 | 388 | 375 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 8,738 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: DDOT
Project ID/Project Title: CJ - FY2012 - DDOT Water Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2008 |
| Completion: | FY 2019 |

Project Description:

This project is for the annual program of water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). This project is needed to minimize public inconvenience caused by construction work and to save DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$6,473,738 |
| Current Approved Lifetime Budget | \$6,473,738 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$55,508 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,915 | 167 | 135 | 122 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 6,474 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: DDOT
Project ID/Project Title: CM - FY2013 - DDOT Water Projects
Managing Department: DC Dept. of Transportation
EPMC: DETS - Engineering & Tech Services
Priority: Board Policy, DC Water's commitment to outside agencies

| Project Dates | |
|----------------------|---------|
| Start: | FY 2012 |
| Completion: | FY 2017 |

Project Description:

This project is for the annual program of water infrastructure jobs that are coordinated with street rehabilitation or other construction work performed by the District Department of Transportation (DDOT). This project is needed to minimize public inconvenience caused by construction work and to save DC Water the paving cost.

Impact on Operations:

This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$1,549,299 |
| Current Approved Lifetime Budget | \$1,549,299 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$15,914 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 811 | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,549 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Storage Facilities
Project ID/Project Title: FA - Water Storage Facility Upgrades
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Health Safety

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2021 |

Project Description:

This project consists of replacing the expansion joint material, concrete floor slab and wall repairs within the Fort Stanton Reservoir No.2 to minimize the current leakage and repair the damage caused by an embankment failure. This project also includes electrical, instrumentation upgrades / improvements, venting modifications and reconfiguration of the drain / overflow piping and installation of impermeable membranes over three underground water storage reservoirs as required by EPA. Future upgrades / improvements to the storage facilities based upon planned inspection / assessments conducted every three years are also covered under this project.

Impact on Operations:

This project will have no material impact on the operating budget. However, a portion of this project (Job FA01) will reduce water loss, thus slowing the growth in water purchase costs.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 88.26% |
| EPA/Fed - | 11.74% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$31,607,120 |
| Current Approved Lifetime Budget | \$36,137,120 |
| Lifetime Budget Increase/Decrease | \$4,530,000 |
| Allocated Labor as of FY 2016 | \$1,512,594 |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 17.557 | 1.871 | 1.237 | 2.970 | 3.420 | 300 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 22.256 | 3.126 | 5.550 | 5.205 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Storage Facilities
Project ID/Project Title: HW - Rehabilitation of Elevated Water Tanks
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2020 |
| Completion: | FY 2025 |

Project Description:
 This project consists of rehabilitation of the coating systems for: Anacostia Tank No. 1 (Boulevard Tank), Anacostia Tank No. 2 (Good Hope Tank), and Fort Reno Tank 2.

Impact on Operations:
 This project will have no material impact on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$7,000,000 |
| Current Approved Lifetime Budget | \$7,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 105 | 305 | 758 | 2,103 | 1,292 | 541 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 580 | 6,420 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Storage Facilities
Project ID/Project Title: MA - St. Elizabeth Water Tank
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: High Profile, Good Neighbor Policy

| Project Dates | |
|----------------------|---------|
| Start: | FY 2002 |
| Completion: | FY 2019 |

Project Description:

The project includes the construction of a 2.0 million gallon elevated water storage tank. The new storage tank will provide additional potable water storage for the Anacostia 1st High South Service Area, increasing pressures to the higher elevation areas and improving fire protection in the distribution system served by this storage tank. St. Elizabeth's Hospital has agreed to allow the tank to be located on the Hospital complex as this new facility will improve the reliability of the Hospital's water supply system.

Impact on Operations:

New tank will require periodic (10 to 15 years) maintenance involving painting.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$36,883,372 |
| Current Approved Lifetime Budget | \$36,883,372 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$408,944 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 5,536 | 5,124 | 6,568 | 3,527 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 25,527 | 4,431 | 6,925 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Storage Facilities
Project ID/Project Title: MQ - 2MG 4th High Storage Tank
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2004 |
| Completion: | FY 2024 |

Project Description:

This project includes the siting and feasibility study, design and construction for the future construction of a 2.0 million gallon storage tank to supply the 4th High Service Area on the west side of Rock Creek Park. This area does not have any usable storage and all water supply comes from the Fort Reno Pumping Station. The objective of the storage tank is to provide a source of supply should there be a failure of the pumping station, and provide storage capacity to improve the reliability of the water supply to this portion of the 4th High Service Area.

Impact on Operations:

New elevated water storage tank will require periodic (10 to 15 years) maintenance causing an increase on the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|-------------|
| Previous Approved Lifetime Budget | \$9,579,755 |
| Current Approved Lifetime Budget | \$9,579,755 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$33,896 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 719 | 643 | 226 | 0 | 321 | 418 | 502 | 1,664 | 1,930 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 2,530 | 0 | 0 | 0 | 1,000 | 1,060 | 0 | 4,990 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Storage Facilities
Project ID/Project Title: MR - 2nd High Water Storage
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, Low pay back, Mission / Function over long term

| Project Dates | |
|----------------------|---------|
| Start: | FY 2009 |
| Completion: | FY 2025 |

Project Description:

This project includes the siting and feasibility study, design and construction of a water storage reservoir in the 2nd High Service Area east of Rock Creek Park. The reservoir will address storage deficiency and improve system reliability within the 2nd High service area located in northwest and northeast sections north of Florida Ave and Rhode Island Ave and south of Missouri Ave. The existing Van Ness reservoir (Washington Aqueduct facility) has capacity to supply 65% of the average daily usage in the 2nd High Service Area. The additional storage will provide flexibility to undertake routine maintenance of the existing and proposed reservoirs. In addition, a second reservoir in the area will allow taking one of the reservoirs out of service without having to pump into a closed system.

Impact on Operations:

New potable water reservoir will require periodic maintenance causing some increase in the operating budget.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|--|--------------|
| Previous Approved Lifetime Budget | \$16,764,206 |
| Current Approved Lifetime Budget | \$16,764,206 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$22,690 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 1,124 | 89 | 41 | 115 | 515 | 359 | 426 | 1,422 | 6,172 | 1,814 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 1,454 | 0 | 0 | 1,605 | 0 | 0 | 1,060 | 12,645 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Program Management
Project ID/Project Title: KV - Water Program Mgt. Services 2F
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2019 |
| Completion: | FY 2024 |

Project Description:

This project is to provide engineering program management services for the water system capital improvements program (CIP), to develop a comprehensive water distribution system hydraulic model and run model simulations for evaluation of capital improvement alternatives; to perform pipe condition assessments of pipelines; to assess the potable water storage and pumping needs; to investigate alternatives to eliminate low water pressures; improve water quality in the distribution system; provide reliable and adequate fire protection; to perform conceptual design of proposed capital projects; and to develop a comprehensive facilities plan for incorporation into the capital improvements program. It also includes developing scopes of work, preparing cost estimates, negotiating task orders and reviewing design submittals for the implementation of the capital improvement program.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

| | | | |
|--------------|---------|--|--------------|
| DC - | 100.00% | Previous Approved Lifetime Budget | \$30,610,000 |
| EPA/Fed - | 0.00% | Current Approved Lifetime Budget | \$30,610,000 |
| WSSC - | 0.00% | Lifetime Budget Increase/Decrease | \$0 |
| Fairfax - | 0.00% | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | 0.00% | | |

| Disbursements | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
|---------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Budget | 0 | 0 | 0 | 1,705 | 3,801 | 6,021 | 6,286 | 4,095 | 2,284 | 0 | 0 | 0 |
| Commitments | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
| Budget | 0 | 0 | 0 | 30,610 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Program Management
Project ID/Project Title: LB - Water Program Mgt. Services 2G
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2024 |
| Completion: | FY 2029 |

Project Description:

This project is to provide engineering program management services for the water system CIP, to develop a comprehensive water distribution system hydraulic model and run model simulations for evaluation of capital improvement alternatives; to perform Pipe Condition Assessments of pipelines; to assess the potable water storage and pumping needs; to investigate alternatives to eliminate low water pressures; improve water quality in the distribution system; provide reliable and adequate fire protection; to perform conceptual design of proposed capital projects; and to develop a comprehensive facilities plan for incorporation into the CIP. It also includes developing scopes of work, preparing cost estimates, negotiating task orders and reviewing design submittals for the implementation of the CIP.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$35,480,000 |
| Current Approved Lifetime Budget | \$35,480,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,902 | 4,572 | 7,043 | 16,825 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35,480 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Program Management
Project ID/Project Title: LQ - Water Service Area Asset Management ⁴
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 2013 |
| Completion: | FY 2017 |

Project Description:

This project is to implement a comprehensive Asset Management program for Water Services and WSPM. The program consists of a variety of elements, including but not limited to technology and data, maintenance and work management, reliability and condition assessment and asset life cycle management activities. Asset Management implementation is expected to take place over a five year period.

Impact on Operations:

Additional operating/maintenance costs will be required, but greater savings through improved asset life cycle costing is anticipated.

Effective Funding by User (percent):

| | |
|--------------|--------|
| DC - | 77.25% |
| EPA/Fed - | 0.00% |
| WSSC - | 17.45% |
| Fairfax - | 3.47% |
| Loudoun/PI - | 1.83% |

| | |
|--|-------------|
| Previous Approved Lifetime Budget | \$5,000,000 |
| Current Approved Lifetime Budget | \$5,000,000 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$128,447 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 3,515 | 1,304 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 5,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) (\$ in thousands)

4 Note: Facilities listed as Multi Jurisdictional Use Facilities (MJUF). The current user share depicted was or will be derived and adopted in accordance with Blue Plains IMA Agreement of 2012 section 5.B 'Determination of Multi Jurisdictional Facilities (MJUFs)'.

FY 2017 - FY 2026

Service Area Title: Water Service Area
Program Title: Program Management
Project ID/Project Title: ME - Water Sys Program Management Services
Managing Department: Engineering and Technical Services
EPMC: Water Program Manager
Priority: Good Engineering, High pay back, Mission / Function

| Project Dates | |
|----------------------|---------|
| Start: | FY 1999 |
| Completion: | FY 2019 |

Project Description:

This project is to provide engineering program management services for the water system CIP, to develop a comprehensive water distribution system hydraulic model and run model simulations for evaluation of capital improvement alternatives; to perform pipe condition assessments of pipelines; to assess the potable water storage and pumping needs; to investigate alternatives to eliminate low water pressures; improve water quality in the distribution system; provide reliable and adequate fire protection; to perform conceptual design of proposed capital projects; and to develop a comprehensive facilities plan for incorporation into the CIP. It also includes developing scopes of work, preparing cost estimates, negotiating task orders and reviewing design submittals for the implementation of the CIP.

Impact on Operations:

Program Management has no direct impact on operations; however, the impact of each project on operations is identified on individual project sheets.

Effective Funding by User (percent):

| | |
|--------------|---------|
| DC - | 100.00% |
| EPA/Fed - | 0.00% |
| WSSC - | 0.00% |
| Fairfax - | 0.00% |
| Loudoun/PI - | 0.00% |

| | |
|-----------------------------------|--------------|
| Previous Approved Lifetime Budget | \$30,112,581 |
| Current Approved Lifetime Budget | \$30,112,581 |
| Lifetime Budget Increase/Decrease | \$0 |
| Allocated Labor as of FY 2016 | \$411,968 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 15,247 | 4,519 | 4,739 | 3,335 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 30,113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4710 - Operations Cap Eqp
Managing Department: Wastewater Treatment
EPMC: N/A
Priority: Good Engineering, Low pay back, Mission / Function over long term
Project Description:
 These funds are for the purchase of laboratory equipment and devices at Blue Plains.
Impact on Operations:
 These purchases will have no material impact on the operating budget.

Project Dates

Start:
Completion:

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|-------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$1,400,000 |
| EPA/Fed - | Current Approved Lifetime Budget | \$440,000 |
| WSSC - | Lifetime Budget Increase/Decrease | (\$960,000) |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 110 | 110 | 110 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 110 | 110 | 110 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4730 - Process Engineering Cap Eqp
Managing Department: Process Engineering
EPMC: N/A
Priority: Potential Failure / Ability to continue meeting permit requirement

Project Dates

Start:
Completion:

Project Description:

These funds are for rehabilitating and replacing equipment and technology related to Blue Plains process control including actuators, flow meters, programmable logic controllers, and process computer control system.

Impact on Operations:

Ongoing annual maintenance and system support.

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|---------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$6,754,000 |
| EPA/Fed - | Current Approved Lifetime Budget | \$3,000,000 |
| WSSC - | Lifetime Budget Increase/Decrease | (\$3,754,000) |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 1,000 | 1,000 | 500 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 1,000 | 1,000 | 500 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4830 - Maintenance Cap Eq
Managing Department: Maintenance Services
EPMC: N/A
Priority: Potential Failure / Ability to continue meeting permit requirement

Project Dates

Start:
Completion:

Project Description:

These funds are for rehabilitating and replacing large wastewater treatment process equipment (pumps, electric motors, centrifuges, screens, and membrane diffusers) throughout Blue Plains.

Impact on Operations:

Not performing rehabilitation or replacement could result in additional operating repair costs.

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|----------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$30,750,000 |
| EPA/Fed - | Current Approved Lifetime Budget | \$12,000,000 |
| WSSC - | Lifetime Budget Increase/Decrease | (\$18,750,000) |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 3,000 | 3,000 | 3,000 | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 3,000 | 3,000 | 3,000 | 3,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP2410 - FAB Cap Eqp
Managing Department: Finance, Accounting & Budget
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Project Dates

Start:
Completion:

Project Description:

These funds are to support Finance, Accounting and Budget with specific programs geared to facilitate data gathering and information dissemination. Active projects are related to Payroll system upgrades.

Impact on Operations:

Ongoing annual maintenance and system support.

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|-------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$915,000 |
| EPA/Fed - | Current Approved Lifetime Budget | \$350,000 |
| WSSC - | Lifetime Budget Increase/Decrease | (\$565,000) |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP241 I - Reserve Fund Cap Eq
Managing Department: Finance, Accounting & Budget
EPMC: N/A
Priority: Good Engineering, Low pay back, Mission / Function over long term

Project Dates
Start:
Completion:

Project Description:

These funds represent Finance, Accounting and Budget's reserve to support the various capital equipment needs throughout DC Water.

Impact on Operations:

Ongoing annual maintenance and system support.

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|--------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$69,901,021 |
| EPA/Fed - | Current Approved Lifetime Budget | \$82,329,012 |
| WSSC - | Lifetime Budget Increase/Decrease | \$12,427,991 |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
|-----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Disbursements Budget | 0 | 11,158 | 7,800 | 7,692 | 3,000 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 0 |
| Commitments Budget | 0 | 11,158 | 7,800 | 7,692 | 3,000 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 8,780 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor) *(\$ in thousands)*

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP2340 - Customer Service Cap Eq
Managing Department: Customer Service
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Project Dates

Start:
Completion:

Project Description:

These funds are to support the Automated Meter Reading (AMR) Replacement Program (formerly EMI & EM2) and On-Going Meter Replacements (formerly EMI). The AMR Replacement Program strives to replace 90,000 water meters and meter transmission units by FY 2018.

Impact on Operations:

Not implementing this project may result in the possible failure of the infrastructure in the future which may result in inaccurate water billing.

Effective Funding by User (percent):

DC - 100.00%
EPA/Fed - 0.00%
WSSC - 0.00%
Fairfax - 0.00%
Loudoun/PI - 0.00%

| | |
|--|----------------|
| Previous Approved Lifetime Budget | \$50,746,929 |
| Current Approved Lifetime Budget | \$33,175,000 |
| Lifetime Budget Increase/Decrease | (\$17,571,929) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | 0 | 21,898 | 6,041 | 2,618 | 2,618 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 21,898 | 6,041 | 2,618 | 2,618 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4210 - DDCS Cap Eq
Managing Department: Distribution & Conveyance Systems
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Project Dates
Start:
Completion:

Project Description:

These funds are for rehabilitating and replacing equipment outside of Blue Plains in the above ground water and sewer systems. Equipment includes portable pumps, large pumps, emergency generators, flow meters, and SCADA hardware.

Impact on Operations:

Not performing rehabilitation or replacement could result in additional operating repair costs.

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|-------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$3,176,500 |
| EPA/Fed - | Current Approved Lifetime Budget | \$4,050,000 |
| WSSC - | Lifetime Budget Increase/Decrease | \$873,500 |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 925 | 625 | 1,300 | 1,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 925 | 625 | 1,300 | 1,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4410 - Water Services Cap Eq
Managing Department: Water Services
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Project Dates

Start:
Completion:

Project Description:

These funds are for rehabilitating and replacing equipment outside of Blue Plains in the underground water distribution system. Equipment includes water mains, service lines, valves, water sample lab equipment, backflow preventers, and fire hydrant custodial locks.

Impact on Operations:

Not performing rehabilitation or replacement could result in additional operating repair costs.

Effective Funding by User (percent):

DC - 100.00%
 EPA/Fed - 0.00%
 WSSC - 0.00%
 Fairfax - 0.00%
 Loudoun/PI - 0.00%

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$4,000,000 |
| Current Approved Lifetime Budget | \$1,550,000 |
| Lifetime Budget Increase/Decrease | (\$2,450,000) |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
|---------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Budget | 0 | 425 | 425 | 350 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
| Budget | 0 | 425 | 425 | 350 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP4610 - Sewer Services Cap Eqp
Managing Department: Sewer Services
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Project Dates

Start:
Completion:

Project Description:

These funds are for rehabilitating and replacing equipment outside of Blue Plains in the underground wastewater collection system. Equipment, divided into three areas, includes: sewer utility (pipes/fittings, manhole covers/frames, pumps, flow meters, catch basins); sewer camera; and trenchless (cured-in-place pipe, locators, emergency generators).

Impact on Operations:

Not performing rehabilitation or replacement could result in additional operating repair costs.

Effective Funding by User (percent):

DC - 100.00%
 EPA/Fed - 0.00%
 WSSC - 0.00%
 Fairfax - 0.00%
 Loudoun/PI - 0.00%

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$3,345,000 |
| Current Approved Lifetime Budget | \$1,000,000 |
| Lifetime Budget Increase/Decrease | (\$2,345,000) |
| Allocated Labor as of FY 2016 | \$0 |

| | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
|-----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Disbursements Budget | 0 | 250 | 250 | 250 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | 0 | 250 | 250 | 250 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP2110 - IT Infrastructure Cap Eq
Managing Department: Information Technology
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Project Dates
Start:
Completion:

Project Description:

These funds are to support IT infrastructure projects. Activities include computer replacements, cabling, radios, uninterruptible power system, server hardware, SCADA core switches, and telephony upgrades.

Impact on Operations:

Ongoing annual maintenance and system support.

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|--------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$8,748,000 |
| EPA/Fed - | Current Approved Lifetime Budget | \$10,050,000 |
| WSSC - | Lifetime Budget Increase/Decrease | \$1,302,000 |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
|-----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Disbursements Budget | 0 | 2,560 | 2,290 | 2,700 | 2,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | 0 | 2,560 | 2,290 | 2,700 | 2,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP2115 - IT Enterprise Technology Cap Eq
Managing Department: Information Technology
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Project Dates
Start:
Completion:

Project Description:

These funds are to support enterprise technology needs throughout DC Water as approved by the IT Local Steering Committee. Major projects include the replacements of the Customer Information System and Financial/Supply Chain Management Systems.

Impact on Operations:

Ongoing annual maintenance and system support.

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|--------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$0 |
| EPA/Fed - | Current Approved Lifetime Budget | \$25,670,000 |
| WSSC - | Lifetime Budget Increase/Decrease | \$25,670,000 |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 7,900 | 6,270 | 3,000 | 8,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 7,900 | 6,270 | 3,000 | 8,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP3410 - Facilities Mgmt. Cap Eq
Managing Department: Facilities Management
EPMC: N/A
Priority: Good Engineering, Low pay back, Mission / Function over long term

Project Dates

Start:
Completion:

Project Description:

These funds are to support rehabilitation or replacement handled by Facilities Management within and outside of Blue Plains. These activities, divided into three areas, include: mechanical (HVAC, fire suppression, elevator, plumbing, rollup doors); equipment (photocopiers, appliances, furniture, fixtures, signage); and projects (roofing, general improvements).

Impact on Operations:

Not performing rehabilitation or replacement could result in additional operating repair costs.

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|-------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$7,676,000 |
| EPA/Fed - | Current Approved Lifetime Budget | \$6,760,000 |
| WSSC - | Lifetime Budget Increase/Decrease | (\$916,000) |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 1,690 | 1,690 | 1,690 | 1,690 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 1,690 | 1,690 | 1,690 | 1,690 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP3610 - Security Cap Eqp
Managing Department: Security
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Project Dates

Start:
Completion:

Project Description:

These funds are for infrastructure connectivity, cameras, card readers, door/window/hatch sensors, fence-line detection systems, automated entry/exit data capture and software support.

Impact on Operations:

Ongoing annual maintenance and system support.

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|-------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$0 |
| EPA/Fed - | Current Approved Lifetime Budget | \$1,412,021 |
| WSSC - | Lifetime Budget Increase/Decrease | \$1,412,021 |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| Disbursements Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| | 0 | 849 | 563 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments Budget | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| | 0 | 849 | 563 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Capital Equipment
Program Title: Capital Equipment
Project ID/Project Title: EQP5610 - Fleet Mgmt. Cap Eq
Managing Department: Fleet Management
EPMC: N/A
Priority: Good Engineering, High pay back, Mission / Function

Project Dates

Start:
Completion:

Project Description:

These funds are for purchases of Authority-wide vehicles, buses, vac trucks, boats, backhoes, cranes, trailers, forklifts and other large equipment.

Impact on Operations:

New replacement vehicles should result in lower repair costs.

Effective Funding by User (percent):

| | | |
|--------------------------------|-----------------------------------|---------------|
| DC - Joint Use - Indirect Cost | Previous Approved Lifetime Budget | \$18,448,600 |
| EPA/Fed - | Current Approved Lifetime Budget | \$11,333,000 |
| WSSC - | Lifetime Budget Increase/Decrease | (\$7,115,600) |
| Fairfax - | Allocated Labor as of FY 2016 | \$0 |
| Loudoun/PI - | | |

| Disbursements | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
|---------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|
| Budget | 0 | 2,834 | 2,833 | 2,833 | 2,833 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commitments | <u>Pre FY 2017</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>Post FY 2026</u> |
| Budget | 0 | 2,834 | 2,833 | 2,833 | 2,833 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)

FY 2017 - FY 2026

Service Area Title: Washington Aqueduct
Program Title: Washington Aqueduct
Project ID/Project Title: WAD - Washington Aqueduct Capital Projects
Managing Department:
EPMC: N/A
Priority: Multiple - Primarily Good Engineering, High pay back, Mission / Function

Project Dates

Start:
Completion:

Project Description:
 These funds are for capital projects related to Washington Aqueduct's water treatment system. Capital projects include improvements to water treatment plants (Dalecarlia and McMillian), appurtenant transmission and storage facilities, pumping station (Dalecarlia), and alternative treatment methods.

Impact on Operations:
 Not implementing this project may result in the possible failure of the infrastructure in the future with undesirable environmental and social consequences.

Effective Funding by User (percent):

DC - 100.00%
 EPA/Fed - 0.00%
 WSSC - 0.00%
 Fairfax - 0.00%
 Loudoun/PI - 0.00%

| | |
|--|---------------|
| Previous Approved Lifetime Budget | \$108,208,825 |
| Current Approved Lifetime Budget | \$112,207,008 |
| Lifetime Budget Increase/Decrease | \$3,998,183 |
| Allocated Labor as of FY 2016 | \$0 |

| Disbursements | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|
| Budget | | 10,896 | 11,768 | 10,547 | 11,840 | 13,911 | 10,932 | 11,041 | 10,969 | 10,787 | 9,516 | |
| Commitments | Pre FY 2017 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Post FY 2026 |
| Budget | 0 | 10,896 | 11,768 | 10,547 | 11,840 | 13,911 | 10,932 | 11,041 | 10,969 | 10,787 | 9,516 | 0 |

(projected disbursements do not include contingencies; commitments budget does not include labor)

(\$ in thousands)