WSSCWATER
DELIVERING THE ESSENTIAL

Adopted Capital Improvements Program
FISCAL YEARS 2026-2031

Washington Suburban Sanitary Commission

Adopted
Six-Year Capital Improvements Program
Fiscal Years 2026 - 2031

July 1, 2025

Mark J. Smith, Chair
Jonathan Powell, Vice Chair

Fausto R. Bayonet, Commissioner
T. Eloise Foster, Commissioner
Lynnette D. Espy-Williams, Commissioner
Regina Y. Speed-Bost, Commissioner

Kishia L. Powell, General Manager/CEO
ATTEST: Julianne M. Montes De Oca, Corporate Secretary

Brighton Dam
On our cover: In service since 1944, Brighton Dam spans the Patuxent River between Montgomery and Howard counties and plays a critical role in WSSC Water's mission to deliver clean, reliable drinking water. Its 13 tainter gates regulate flow from the 6.3-billion-gallon Triadelphia Reservoir, sending water downstream to the T. Howard Duckett Reservoir and ultimately to the Patuxent Water Filtration Plant for treatment. More than just infrastructure, Brighton Dam symbolizes WSSC Water's commitment to protecting natural resources while providing the community with beautiful, accessible spaces for recreation and reflection.

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

SECTION 5 – PRINCE GEORGE'S COUNTY WATER PROJECTS

TABLE OF CONTENTS

SECTION 6 – PRINCE GEORGE'S COUNTY SEWER PROJECTS

TABLE OF CONTENTS

SECTION 7 – INFORMATION ONLY PROJECTS

ACTIVE PROJECTS

APPENDICES

LEGAL AUTHORITY AND RESPONSIBILITY

Statutory Basis

Under Section 23-304 of the Public Utilities Article of the Annotated Code of Maryland, the Washington Suburban Sanitary Commission (WSSC Water) is responsible for annually preparing a Six-Year Capital Improvements Program (CIP) for major water and sanitary sewerage facilities and transmitting it to the County Council and the County Executive of Montgomery County and the County Executive of Prince George's County by October 1st each year. WSSC Water, where final action on the program is required by the two County Councils', must revise the same and then adopt the CIP prior to the commencement of the first fiscal year of the six-year program.

Section 23-301 defines major projects for inclusion into the CIP as water mains at least 16 inches in diameter, sewer mains at least 15 inches in diameter, water or sewage pumping stations, force mains, storage facilities, and other major facilities. Project information presented in this document complies with all legal requirements of the 10-year water and sewerage plans and is in direct support of the Counties' approved land use plans and policies for orderly growth and development.

WSSC Water's Role

Established as a bi-county agency in 1918 by an act of the Maryland General Assembly, WSSC Water is responsible for planning, designing, constructing, operating, and maintaining water and sewerage systems, and acquiring facility sites and rights-of-way in order to provide potable water and sanitary sewer services to residents, businesses, and federal, state, and local municipalities within the Washington Suburban Sanitary District (WSSD). The WSSD encompasses nearly all of Montgomery and Prince George's Counties and provides water and sewer service to approximately 1.9 million customers in an area of nearly 1,000 square miles. A board of six Commissioners directs WSSC Water, three appointed by the County Executive of Prince George's County and confirmed by the Prince George's County Council, and three appointed by the County Executive of Montgomery County and confirmed by the Montgomery County Council. Commissioners serve four-year staggered terms.

WSSC Water's Mission

We are entrusted by our community to provide safe and reliable water, life's most precious resource, and return clean water to our environment, all in an ethical, sustainable, and financially responsible manner.

WSSC Water's Responsibilities

WSSC Water's is a provider of safe, seamless and satisfying water services, making the essential possible every day for our neighbors in Montgomery and Prince George's counties. The result of our work is apparent every day to our customers. WSSC Water's responsibilities include:

- protecting the health and safety of the residents of both Counties by providing an adequate supply of safe drinking water;
- meeting fire-fighting requirements;
- collecting and treating wastewater before it is returned to the waters of the State of Maryland;
- managing and safeguarding the watershed and the water supply by implementing sound forestation and land use practices;
- monitoring the collection and treatment of wastewater;
- discharging an effluent cleansed of nutrients, pollutants, and hazardous materials;
- managing treated wastewater biosolids responsibly and cost effectively;
- maintaining the existing water and wastewater infrastructures;
- planning for the orderly growth of the sanitary district and WSSC Water services to meet the needs of the communities we serve;
- monitoring adherence to all plumbing and gas-fitting standards and ensuring proper coordination with other public utilities; and,
- managing operations to provide efficient service to its customers while keeping costs as low as possible.

The projects contained in this CIP represent WSSC Water's plan to successfully meet its responsibilities. WSSC Water strives to maintain a balance between the use of valuable resources and the public's demand for clean water. Meeting these responsibilities helps ensure that we fulfill our core mission and strengthen our local economies.

PROGRAM OVERVIEW

Objective
The principal objective of the CIP is the six-year programming of planning, design, land acquisition, and construction activities for major water and sewerage infrastructure projects and programs. These projects and programs may be necessary for system improvements for service to existing customers, to comply with federal and/or state environmental mandates, or to support new development in accordance with the Counties' approved plans and policies for orderly growth and development.

Funding Sources
The projects included in this Combined Program are funded primarily by issuance of water supply and sewage disposal bonds (WSSC Bonds). To a lesser degree, projects may also be funded by the following:

- **State Grants** – a share of the support provided on a local level. The State of Maryland provides funding under a separate grants program for enhanced nutrient removal at existing wastewater treatment plants (water resource recovery facilities) and for the rehabilitation of sewer mains as part of the Chesapeake Bay Program;

- **Federal Grants** – Department of Energy grants related to the Energy Performance Program and Piscataway Bioenergy projects to promote and develop green energy sources;

- **Local Government Contributions** – payments to WSSC Water for co-use of regional facilities, or funding provided by County governments for projects they are sponsoring;

- **PAYGO** – when budgeted, the practice of using current revenues to the extent practical to help fund the capital program, thereby reducing the need for debt financing;

- **SDC** – anticipated revenue from the System Development Charge; and,

- **Contribution/Other** – projects funded by applicants for growth projects where the County Councils have directed that no WSSC Water debt be used to pay for the project.

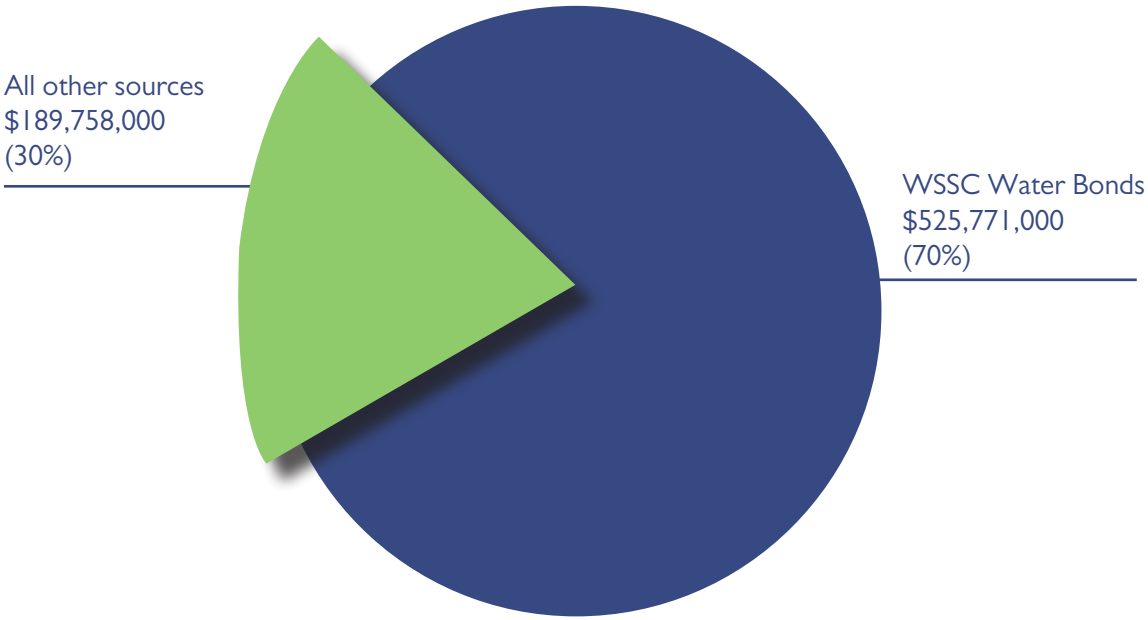
(Please refer to Figure 3 which displays the funding allocations for the major funding sources.)

Figure 3: WSSC Water Adopted FYs 2026 Combined Program Funding by Source

70% of the FY 2026 Combined Program is funded through long-term debt

Funding Source	FY 2026 Amount
WSSC Water Bonds	$525,771,000
PAYGO	93,000,000
SDC & Others	43,811,000
Federal & State Grants	43,326,000
Local Government Contributions	9,621,000
Total	**$715,529,000**

2026 Budget Year Total
$715,529,000



PROGRAM OVERVIEW

The water supply and sewage disposal bonds are repaid to bond holders over a 30-year period by annual principal and interest payments (debt service). In this manner, the initial costs of bond financing are spread over time and paid for by future customers who will benefit from the facilities, as well as by current customers. The annual debt service on outstanding bonds is paid from operating funds. The primary funding source for the repayment of debt service is the revenue generated by water consumption and sewer usage charges. Ultimately, the rates set for these charges impact the water and sewer bills of our customers. The rate setting for water and sewer charges is performed annually in order to cover both operational and debt service costs (associated with the water supply and sewage disposal bonds). Debt service costs are influenced by the amount of water and sewer bond issuance necessary to fund the CIP.

Several capital spending and funding practices are noteworthy. WSSC Water:

- continues an aggressive program to rehabilitate or replace the older portions of our 6,000 miles of water main and 5,700 miles of sewer main infrastructure;
- funds capital facilities needed to accommodate growth with the System Development Charge (SDC). This charge is reviewed annually by the County Councils. (Refer to Appendices A and B for details.) A comparison of SDC revenues and estimated growth spending for the six-year program period is displayed on the table titled "Growth Funding" in the Funding Growth section of this document.);
- uses PAYGO (Pay-As-You-Go): the practice of using current revenues, when budgeted, reduces the amount of bond issuance and thus lowers debt service costs by eliminating interest associated with bond financing;
- maximizes and manages the collection of funding from alternative sources including state and federal grants, and payments from other jurisdictions for projects which specifically benefit them. The amount of these collections varies from year-to-year. WSSC Water's reliance on rate-supported debt to build the capital program is reduced to the extent that these sources are available to fund capital projects; and
- does not allow the use of rate-supported debt to fund CIP-sized water and sewer projects requested by applicants in support of new development. These projects, identified as System Extension Process (SEP) projects, may only proceed if built at the applicant's expense (an explanation of the SEP process is included in the System Extension Process section of this document). However, since these projects are eligible for SDC credits (to the extent that SDC funds are available), the applicants may eventually recoup their costs. Refer to Appendix B for definitions and details.

In May 1993, the Montgomery and Prince George's County Councils created the Bi-County Working Group on WSSC Spending Controls (Working Group) to review WSSC Water finances and recommend spending control limits. The Working Group's January 1994 report recommended "the creation of a spending affordability process that requires the Counties to set annual ceilings on WSSC Water's rates and debt (debt in this context means both bonded indebtedness and debt service), and then place corresponding limits on the size of the capital and operating budgets of the Commission." The objective of this process is to create a framework for controlling costs and clarifying water/sewer bill increases, as well as slowing the rate at which WSSC Water is incurring debt, thus reducing the portion of WSSC Water water/sewer bills dedicated to paying off debt. This valuable, annual process focuses debate on the need to balance affordability considerations against providing the resources necessary to serve existing customers, meet environmental mandates, and provide the facilities needed for growth.

WSSC Water has submitted a CIP and budget, which generally conforms to the Spending Affordability Guidelines (SAG) established by both County governments every year since 1994. For FY 2026, CIP and Information Only combined spending was within guidelines as submitted. By Resolution No. 2025-2394 dated June 18, 2025, the Commissioners adopted the FYs 2026-2031 CIP.

EXPENDITURES

The Adopted FYs 2026-2031 Combined Program includes 55 CIP and 14 Information Only projects for a grand total of $6.5 billion. The grand total is $.76 million less than the Adopted FYs 2025-2029 Combined Program primarily due to re-baselining the capital budget request to reflect projected program completions and the discontinuance of completion factors. The combined program provides for funding for Anacostia Depot Reconfiguration (A-100.01), Lead Reduction Program (A-109.02), PFAS Management Strategy (A-112.00), Master Planning and Facilities Planning and Investment (A-113.00) and Hi-Influent Infiltration Basin Rehabilitation (S-1.02).

Category	Amount ($Millions)
Total Six-Year Capital Program (FY 2026-2031)	**$4,800**
Total Less than FY2025-2030	1.84
FY 2026 Capital Budget Expenditures	**715.5**
Less than FY 2025-2030	100.4
Water Program	145.2
Sewerage Program	213.5
Information Only Projects	356.8

Key Points:

- Total Six-Year Capital Program: $4.8 billion
- FY 2026 Budget: $715.5 million (down $100.4 million from FY2025-2030)

WSSC WATER FYS 2026-2031 COMBINED PROGRAM
New Project Listing
(All Figures in Thousands)

There are five new and four closed projects in this Capital Improvement Program as detailed below.

Agency Number	Project Name	Total Project Cost	Six Year Program Cost	Budget Year Program Cost	Page Number
Montgomery County Water Projects					
W-000003.04	Fraley Farm West Main	1,003	917	917	1-3
Information Only Projects					
A-000109.02	Lead Reduction Program	103,590	103,590	33,600	7-16
A-000112.00	PFAS Management Strategy	256,500	256,500	-	7-18
A-000113.00	Master Planning and Facilities Planning and Investment	325,000	325,000	35,000	7-19
S-000001.02	High Inflow and Infiltration Basin Rehabilition	9,500	9,500	500	7-7
		696,596	**696,424**	**70,934**	

WSSC WATER FYS 2026-2031 COMBINED PROGRAM

New Project Listing

(All Figures in Thousands)

Agency Number	Project Name	Estimated Total Cost	Expenditures Thru FY 24	Estimated Expenditures FY 25	Remarks
Prince George's County Water Projects					
W-000105.01	Marlton Section 18 Water Main, Lake Marlton Avenue	0	0	0	Project expired due to 3 years of inactivity
Montgomery County Water Projects					
W-000046.26	Pleasant's Property Water Main Extension	0	0	0	Project expired due to 3 years of inactivity
Prince George's County Sewer Projects					
S-000027.08	Westphalia Town Center Sewer Main	612	612	0	Project expired due to 3 years of inactivity
S-000068.01	Landover Mall Redevelopment	0	0	-	
		612	**612**		

A table comparing the Adopted FYs 2025-2029 CIP to the Adopted FYs 2026-2031 CIP follows:

CIP COMPARISON

(In Thousands)

CIP	Combined Program	Total 6 Years	Capital Budget
Adopted FYs 2025-2030	$6,593,258	$4,880,170	$815,973
Adopted FYs 2026-2031	$6,516,650	$4,878,330	$715,529
Change	$ (76,608)	$ (1,840)	$ (100,444)

Expenditure Categories

Expenditures are divided into three main categories: projects needed for growth, projects needed to implement environmental regulations, and projects needed for system improvements. The categories are defined as follows:

Growth – any project, or part of a project, that increases the demand for treatment and delivery of potable water and/or increases system requirements to collect and treat more sewage in response to new, first time, service hookups to the existing customer base.

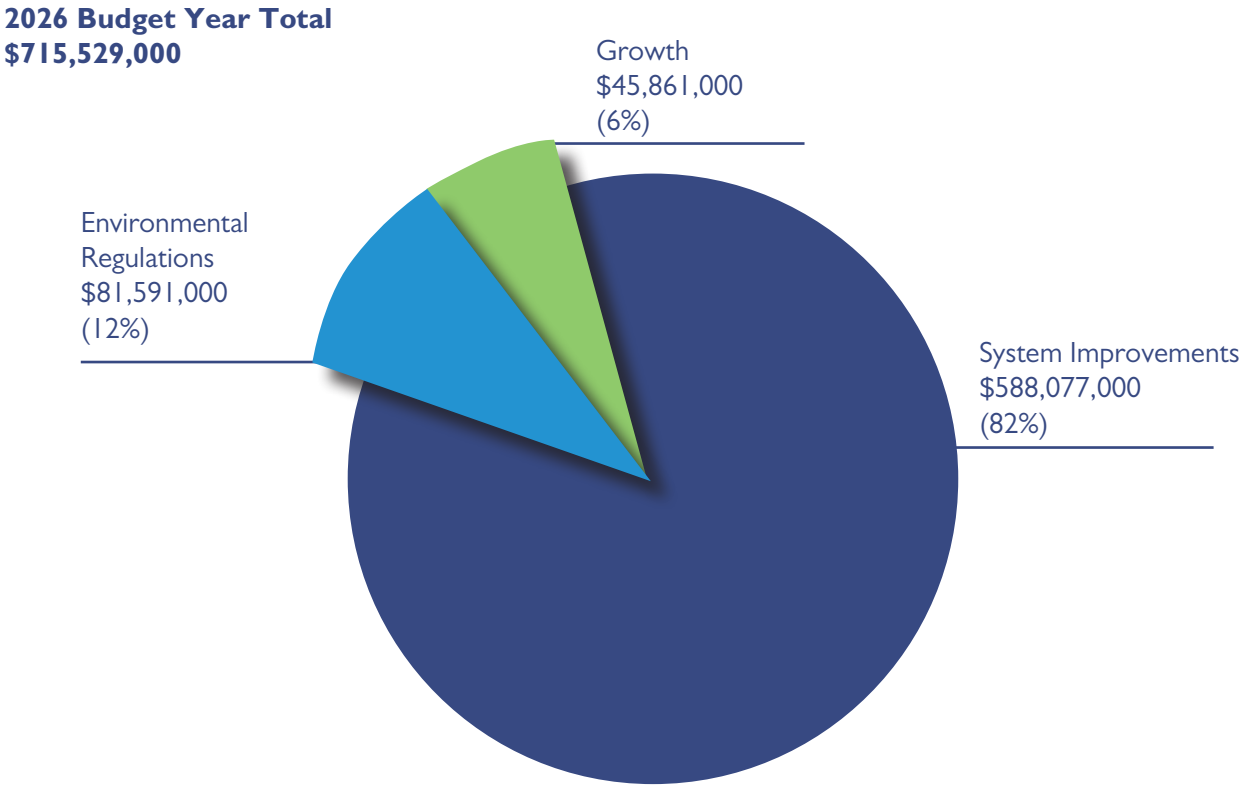
Environmental Regulations – any project which is required to meet changes in federal regulations, such as the Clean Water Act, or in response to more stringent state operating permit requirements, but does not increase system capacity. Any part of this type of a project that provides for additional capacity is for growth.

System Improvements – any project which improves or replaces components of existing water and sewerage systems or provides for mainline relocations required in response to County or state transportation department road or transit projects where the intended purpose is not to increase the capacity of any system components. This category also includes program-sized water main extensions for which the primary function is to provide water supply redundancy to pressure zones or smaller areas in the WSSD or for system loops to improve maintainability and reliability. Any part of this type of a project not dictated by maintenance or rehabilitation needs and that provides for additional capacity is for growth. (Please refer to Figure 4 which displays funding allocations for all three categories).

Figure 4: WSSC Water Adopted FYs 2026 Combined Program by Major Category

82% of the FY 2026 Combined Program is for reinvestment in our system infrastructure

Major Category	FY 2026 Amount
System Improvements	$588,077
Environmental Regulations	81,591
Growth	45,861
Total	**$715,529**



FINANCIAL SUMMARY
(All Figures in Thousands)
EXPENDITURE PROJECTIONS

DATE: October 1, 2024
REVISED: March 1, 2025

PROJECT SUMMARY BY COUNTY, TYPE & CATEGORY	EST. TOTAL COST	EXPEND THRU 24	EST. EXPEND 25	TOTAL SIX YEARS	EXPENDITURE SCHEDULE						SECTION NUM
					YEAR 1 FY26	YEAR 2 FY27	YEAR 3 FY28	YEAR 4 FY29	YEAR 5 FY30	YEAR 6 FY31	
Montgomery Couny Water Projects											1-1
Water Distribution (Water Mains and Pump Stations)	14,026	607	6,598	6,821	5,483	617	309	206	104	102	
TOTAL MONTGOMERY COUNTY WATER PROJECTS	**14,026**	**607**	**6,598**	**6,821**	**5,483**	**617**	**309**	**206**	**104**	**102**	
Montgomery County Sewer Projects											2-1
Wastewater Collection (Sewer and Pump Stations)	66,724	3,287	8,160	51,188	13,214	9,965	6,990	6,020	9,474	5,525	
Projects Pending Close-out	-	-	-	-	-	-	-	-	-	-	
TOTAL MONTGOMERY COUNTY SEWER PROJECTS	**66,724**	**3,287**	**8,160**	**51,188**	**13,214**	**9,965**	**6,990**	**6,020**	**9,474**	**5,525**	
TOTAL MONTGOMERY COUNTY PROJECTS	**80,750**	**3,894**	**14,758**	**58,009**	**18,697**	**10,582**	**7,299**	**6,226**	**9,578**	**5,627**	
Prince George's County Water Projects											5-1
Water Treatment and Storage (WFPs, Reservoirs, Water Tanks)	10,490	-	-	-	-	-	-	-	-	-	
Water Distribution (Water Mains and Pump Stations)	214,195	56,225	37,932	120,038	21,552	28,107	22,443	19,573	17,810	10,553	
Projects Pending Close-out	-	-	-	-	-	-	-	-	-	-	
TOTAL PRINCE GEORGE'S COUNTY WATER PROJECTS	**224,685**	**56,225**	**37,932**	**120,038**	**21,552**	**28,107**	**22,443**	**19,573**	**17,810**	**10,553**	
Prince George's County Sewer Projects											6-1
Water Resource Recovery (WRRFs)	444,118	210,635	27,645	205,730	30,347	61,615	44,506	46,567	19,353	3,342	
Wastewater Collection (Sewer and Pump Stations)	103,540	28,633	13,381	61,526	18,529	17,858	13,294	11,289	494	62	
Interjurisdictional Agreements (Blue Plains, Mattawoman)	50,295	-	6,214	31,638	4,660	8,263	8,390	5,064	2,093	3,168	
Projects Pending Close-out	612	612	-	-	-	-	-	-	-	-	
TOTAL PRINCE GEORGE'S COUNTY SEWER PROJECTS	**598,565**	**239,880**	**47,240**	**298,894**	**53,536**	**87,736**	**66,190**	**62,920**	**21,940**	**6,572**	
TOTAL PRINCE GEORGES COUNTY PROJECTS	**823,250**	**296,105**	**85,172**	**418,932**	**75,088**	**115,843**	**88,633**	**82,493**	**39,750**	**17,125**	

FINANCIAL SUMMARY
(All Figures in Thousands)

EXPENDITURE PROJECTIONS

DATE: October 1, 2024
REVISED: March 1, 2025

PROJECT SUMMARY BY COUNTY, TYPE & CATEGORY	EST. TOTAL COST	EXPEND THRU 24	EST. EXPEND 25	TOTAL SIX YEARS	EXPENDITURE SCHEDULE						SECTION NUM
					YEAR 1 FY26	YEAR 2 FY27	YEAR 3 FY28	YEAR 4 FY29	YEAR 5 FY30	YEAR 6 FY31	
Bi-County Water Projects											3-1
Water Treatment and Storage (WFPs, Reservoirs, Water Tanks)	441,118	131,194	55,911	183,733	41,222	3,014	20,076	36,886	36,886	45,649	
Water Distribution (Water Mains and Pump Stations)	480,185	-	63,590	416,595	54,595	60,000	66,000	72,000	80,000	84,000	
Mixed-use (ESP, Other Capital Programs, Land, Beltway)	219,361	585	2,029	216,747	22,326	64,600	63,859	42,895	21,972	1,095	
Projects Pending Close-out	-	-	-	-	-	-	-	-	-	-	
TOTAL BI-COUNTY WATER PROJECTS	**1,140,664**	**131,779**	**121,530**	**817,075**	**118,143**	**127,614**	**149,935**	**151,781**	**138,858**	**130,744**	
Bi-County Sewer Projects											4-1
Wastewater Collection (Sewer and Pump Stations)	316,609	8,371	44,652	263,586	72,948	69,612	37,243	27,852	27,484	28,447	
Interjurisdictional Agreements (Blue Plains, Mattawoman)	850,450	-	63,986	687,477	72,962	98,838	125,012	137,573	129,503	123,589	
Innovation and Investment Priorities (Water Supply, Climate Action)	333,309	318,412	14,301	596	596	-	-	-	-	-	
Mixed-use (ESP, Other Capital Programs, Land, Beltway)	1,673	-	400	1,273	298	195	195	195	195	195	
TOTAL BI-COUNTY SEWER PROJECTS	**1,502,041**	**326,783**	**123,339**	**952,932**	**146,804**	**168,645**	**162,450**	**165,620**	**157,182**	**152,231**	
TOTAL BI-COUNTY PROJECTS	**2,642,705**	**458,562**	**244,869**	**1,770,007**	**264,947**	**296,259**	**312,385**	**317,401**	**296,040**	**282,975**	
TOTAL WATER PROJECTS	**1,379,375**	**188,611**	**166,060**	**943,934**	**145,178**	**156,338**	**172,687**	**171,560**	**156,772**	**141,399**	
TOTAL SEWER PROJECTS	**2,167,330**	**569,950**	**178,739**	**1,303,014**	**213,554**	**266,346**	**235,630**	**234,560**	**188,596**	**164,328**	
TOTAL CIP PROGRAM	**3,546,705**	**758,561**	**344,799**	**2,246,948**	**358,732**	**422,684**	**408,317**	**406,120**	**345,368**	**305,727**	
Information Only Projects											7-1
Water Treatment and Storage (WFPs, Reservoirs, Water Tanks)	84,567	-	25,391	58,846	23,544	16,928	11,384	2,330	2,330	2,330	
Water Distribution (Water Mains and Pump Stations)	724,953	-	83,866	640,367	90,478	96,536	97,315	106,874	120,539	128,625	
Wastewater Collection (Sewer and Pump Stations)	379,341	-	43,047	336,294	51,637	54,362	55,383	56,335	58,306	60,271	
General Facilities (RGH, Depots, Laboratory, Buildings)	153,341	37,716	22,640	92,985	35,658	38,270	4,999	4,778	4,941	4,339	
Innovation and Investment Priorities (Water Supply, Climate Action)	446,170	-	5,562	440,608	39,118	64,670	57,790	100,640	92,390	86,000	
Mixed-use (ESP, Other Capital Programs, Land, Beltway)	1,181,573	20,000	99,291	1,062,282	116,362	182,210	183,210	193,500	193,500	193,500	
Projects Pending Close-out	-	-	-	-	-	-	-	-	-	-	
TOTAL INFORMATION ONLY PROJECTS	**2,969,945**	**57,716**	**279,797**	**2,631,382**	**356,797**	**452,976**	**410,081**	**464,457**	**472,006**	**475,065**	
COMBINED PROGRAM	6,516,650	816,277	624,596	4,878,330	715,529	875,660	818,398	870,577	817,374	780,792	

FINANCIAL SUMMARY BY CATEGORY

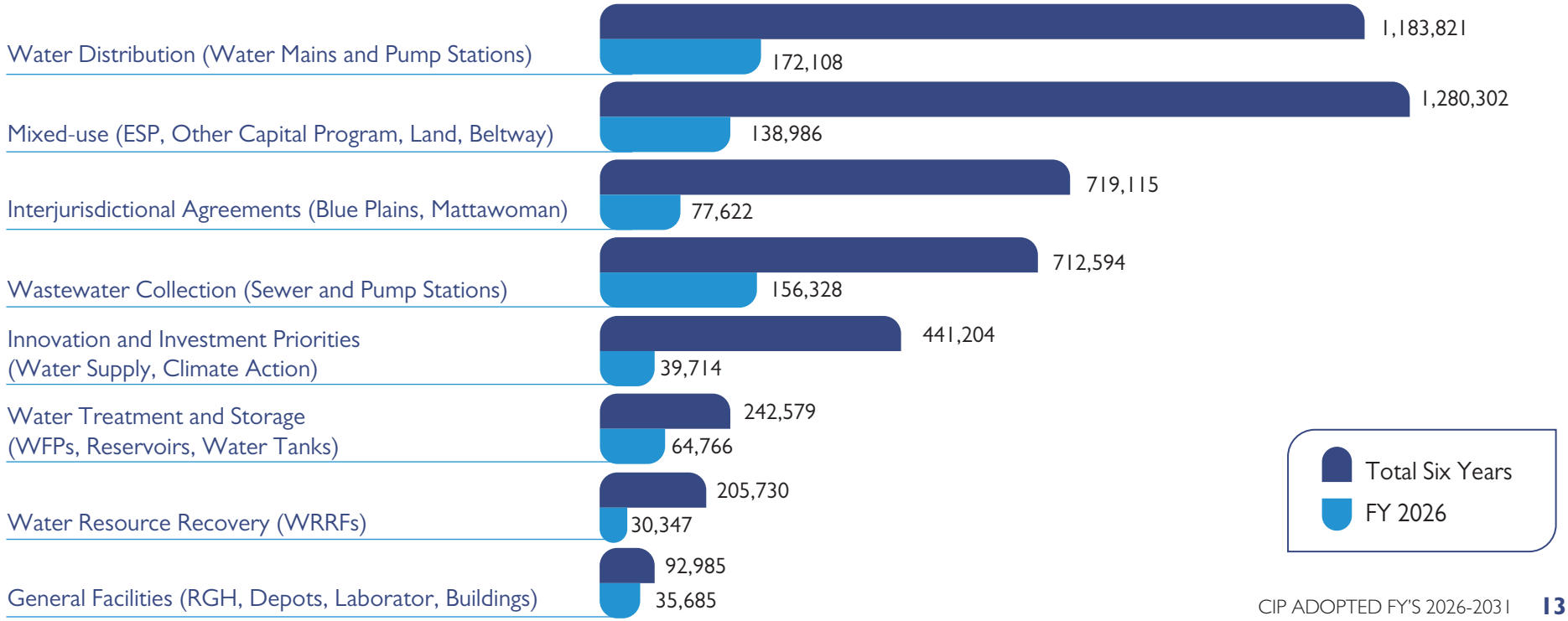
(All Figures in Thousands)

EXPENDITURE PROJECTIONS

DATE: October 1, 2024
REVISED: March 1, 2025

PROJECT SUMMARY BY CATEGORY	EST. TOTAL COST	EXPEND THRU 24	EST. EXPEND 25	TOTAL SIX YEARS	EXPENDITURE SCHEDULE					
					YEAR 1 FY26	YEAR 2 FY27	YEAR 3 FY28	YEAR 4 FY29	YEAR 5 FY30	YEAR 6 FY31
Water Distribution (Water Mains and Pump Stations)	1,433,359	56,832	191,986	1,183,821	172,108	185,260	186,067	198,653	218,453	223,280
Mixed-use (ESP, Other Capital Programs, Land, Beltway)	1,402,607	20,585	101,720	1,280,302	138,986	247,005	247,264	236,590	215,667	194,790
Interjurisdictional Agreements (Blue Plains, Mattawoman)	900,745	-	70,200	719,115	77,622	107,101	133,402	142,637	131,596	126,757
Wastewater Collection (Sewer and Pump Stations)	866,826	40,903	109,240	712,594	156,328	151,797	112,910	101,496	95,758	94,305
Innovation and Investment Priorities (Water Supply, Climate Action)	779,479	318,412	19,863	441,204	39,714	64,670	57,790	100,640	92,390	86,000
Water Treatment and Storage (WFPs, Reservoirs, Water Tanks)	536,175	131,194	81,302	242,579	64,766	19,942	31,460	39,216	39,216	47,979
Water Resource Recovery (WRRFs)	444,118	210,635	27,645	205,730	30,347	61,615	44,506	46,567	19,353	3,342
General Facilities (RGH, Depots, Laboratory, Buildings)	153,341	37,716	22,640	92,985	35,658	38,270	4,999	4,778	4,941	4,339
TOTAL	**6,516,650**	**816,277**	**624,596**	**4,878,330**	**715,529**	**875,660**	**818,398**	**870,577**	**817,374**	**780,792**

FYS 2026-2031 SIX YEAR AND FY 2026 PROJECT BY CATEGORY



FISCAL YEAR 2026 CAPITAL IMPROVEMENT PROGRAM – PROJECT HIGHLIGHTS

FY2026 Capital Improvement Program budget expenditures are budgeted at $ 715.5 million, of which $145.2 million is for the Water Program, $213.5 million is for the Sewerage Program, and $356.8 million is for the Information Only projects. There are four new projects this cycle that is shown on the New Projects Listing near the end of this section. Several facility investments are highlighted below such as:

- Invest $79.5 million to replace 27 miles of water pipe in the Water Reconstruction Program.
- Invest $54.6 million to replace 6 miles of large diameter water pipe in the Large Diameter Water Pipe & Large Valve Rehabilitation Program.
- Invest $51.6 million to replace 25 miles of sewer pipe in the Sewer Reconstruction Program.
- Invest $41.9 million to replace 10 miles of Trunk Sewer line in the Trunk Sewer Reconstruction Program.
- Invest $35.0 million in Master Planning and Facilities Planning and Investments.
- Invest $33.6 million in Lead and Copper Reduction regulatory compliance.
- Invest $23.8 million in the Anacostia Depot Reconfiguration for mechanical upgrades at the warehouse and the heavy equipment shop and the replacement of the warehouse' roof.
- Invest $9.5 million to replace and upgrade assets at the Support Center that have reached the end of their useful lives such as:
    - Replacement of the primary 13.2 kV switchgear and associated equipment that supply power to the building and replacement of the emergency generators and fuel tanks. Restacking - Renovation Lobby Level, 2nd- 8th-10th and 12th Floor Level.
    - Blazer Unit Replacement on the 2nd, Lobby and Lower Levels.
    - Facade and Screen Wall Rehabilitations and replacement of existing Green Roof with new.

We have six highlighted projects in the FY 2026 Adopted Capital Budget. All six of the highlighted projects are major ongoing projects. Each of these projects contribute to WSSC Water's mission to provide safe and reliable water, life's most precious resource, and return clean water to our environment, all in an ethical, sustainable, and financially responsible manner.

WATER RECONSTRUCTION PROGRAM (W–1.00)

The purpose of this program is to renew and extend the useful life of water mains, house connections, and large water services. Portions of the water system are more than 80 years old. Bare cast iron mains, installed generally before 1965, permit the build-up of tuberculation which can reduce flow and cause discoloration at the customer's tap. Selected replacement is necessary to supply water in sufficient quantity, quality, and pressure for domestic use and firefighting. As the system ages, water main breaks are increasing. Selected mains are chronically breaking, and other mains are undersized for the current flow standards. Replacement and the addition of cathodic protection to these mains provides added value to the customer. Galvanized, copper, and cast-iron water mains, as well as all other water main appurtenances including meter and PRV vaults are replaced on an as needed basis when they have exceeded their useful life.

The total six-year cost of the program is $618.3 million. During Fiscal Year 2026, WSSC Water is investing $79.5 million to work on 27 miles of water mains, house connections, and large water services.

LARGE DIAMETER WATER PIPE AND LARGE VALVE REHABILITATION PROGRAM (W-161.01)

The purpose of this program is to plan, inspect, design, and rehabilitate, or replace large diameter water transmission mains and large system valves that have reached the end of their useful life. WSSC Water has approximately 1,031 miles of large diameter water main ranging from 16 inches to 96 inches in diameter. This includes 335 miles of cast iron, 326 miles of ductile iron, 35 miles of steel, and 335 miles of Prestressed concrete cylinder pipe (PCCP). A condition assessment and/ or corrosion monitoring is performed on metallic pipelines, including ductile iron, cast iron and steel, to identify lengths of pipe requiring replacement or rehabilitation and cathodic protection. The assessment is conducted on PCCP pipelines 36-inch diameter and larger. Of the 335 miles of PCCP, 140 miles are 36-inch diameter and larger.

The PCCP Inspection and Condition Assessment and Monitoring Program identifies individual pipe segments that require repair or replacement to assure the continued safe and reliable operation of the pipeline. The program also identifies extended lengths of pipe that require the replacement of an increased number of pipe segments in varying stages of deterioration that are most cost effectively accomplished by the replacement or rehabilitation of long segments of the pipeline or the entire pipeline. The program includes installation of Acoustic Fiber Optic Monitoring equipment to accomplish these goals in PCCP mains. In order to minimize the risk associated with in operable large valves and possible water outages, the large valve inspection and repair program was initiated.

The total six-year cost of the program is $416.6 million. During Fiscal Year 2026, WSSC Water is investing $54.6 million to work on 6 miles of >16" water mains.

SEWER RECONSTRUCTION PROGRAM (S-1.01)

The Sewer Reconstruction Program provides for comprehensive sewer system rehabilitation in residential areas of sewer mains less than 15-inches in diameter and sewer house connections, addressing infiltration and inflow control, and exposed pipe problems.

The reconstruction work performed under this program will be utilizing trenchless technology such as, grouting and the installation of structural liners. In December 2005, WSSC Water entered a consent decree with the U.S Environmental Protection Agency (EPA), the State of Maryland, the Anacostia Watershed Society, Natural Resources Defense Council, the Audubon Naturalist Society, and Friends of Sligo Creek on a multiyear action plan to minimize and eliminate sewerage outflows.

The total six-year cost of the program is $336.3 million of which $216.3 million is funded through WSSC Bonds and $120 million is funded by the Maryland Department of Environment (MDE) Water Infrastructure Financing Administration's Water Quality Revolving Loan Fund Program and MDE's Bay Restoration Fund grants.

During Fiscal Year 2026, WSSC Water is investing $51.6 million to replace 25 miles of sewer mains less than 15-inches in diameter.

TRUNK SEWER RECONSTRUCTION PROGRAM (S-170.09)

The Trunk Sewer Reconstruction Program provides for the inspection, evaluation, planning, design, and construction required for the rehabilitation of sewer mains and their associated manholes in environmentally sensitive areas (ESAs). This includes both trunk sewers 15-inches in diameter and greater, along with associated smaller diameter pipe less than 15 inches in diameter. The smaller diameter pipe is included due to its location within the ESA. The program also includes planning, design, and construction for the prioritized replacement of force mains and aerial sewers.

The total six-year cost of the program is $191.2 million. During Fiscal Year 2026, WSSC Water is investing $41.9 million to work on 10 miles of rehabilitation of sewer mains and their associated manholes in ESAs.

ANACOSTIA DEPOT RECONFIGURATION (A-100.01)

The Anacostia Depot Reconfiguration project provides for the planning, design, and reconfiguration of the Anacostia Depot. The Reconfiguration includes improving efficiency of operations, updates to current building codes, regulations, and Americans with Disabilities Act (ADA) requirements. It also includes improving energy efficiency of facilities and the replacement of assets that are at or beyond their useful life. Constructed in the 1970's, the Anacostia Depot is the largest of WSSC Water's four depots. The depot houses several critical functions including the workshop and administrative space for the Industrial Assets Maintenance Division and Facility Services, the water meter testing and hydrant shop, the heavy equipment shop, and the Fleet Services Division building.

The depot is constrained by CSX railroad tracks that traverse the site, leading to operational inefficiencies when vehicles and staff must wait for trains to pass. The site also has floodplain vulnerabilities due to the effects of climate change. In June 2019, a facility wide condition assessment was undertaken to identify deficiencies in existing facilities and provide a recommended course of action to remedy issues. The study identified a significant number of deficiencies including electrical, mechanical, accessibility and safety shortfalls. A facility master plan was subsequently commissioned to provide a more detailed analysis of potential renovation and new build scenarios which was finalized in June 2021.

The projected total cost for this project is $67.1 million. During Fiscal Year 2026, WSSC Water is investing $23.8 million to the Anacostia Depot Reconfiguration.

WATER STORAGE FACILITY REHABILITATION PROGRAM (W-105.00)

The Water Storage Facility Rehabilitation Program provides for the comprehensive rehabilitation of WSSC Water's more than 60 water storage facilities located throughout the WSSC Water service area, holding over 200 million gallons of finished drinking water. The program provides for structural metal and concrete foundation repairs, equipment upgrades to meet current Occupational Safety and Health Administration (OSHA) standards, lead paint removal, security upgrades, advanced mixing systems to improve water quality, and altitude valve vault and supply pipe replacements. Currently, there are more than 20 steel tanks that were last painted ten or more years ago. Many older tanks have accumulated significant layers of paint which have lost their bonding strength to the steel. Old coatings will be completely removed, and costly lead abatement techniques will be required in many cases. Tanks are prioritized based on the condition of the existing coating and structural integrity issues. Modern coating systems should extend the length of service between coatings from the current 10 years to between 15 and 20 years.

The total six-year cost of the program is $49.3 million. During Fiscal Year 2026, WSSC Water is investing $23.0 million to the rehabilitation of water storage facilities.

FUNDING GROWTH

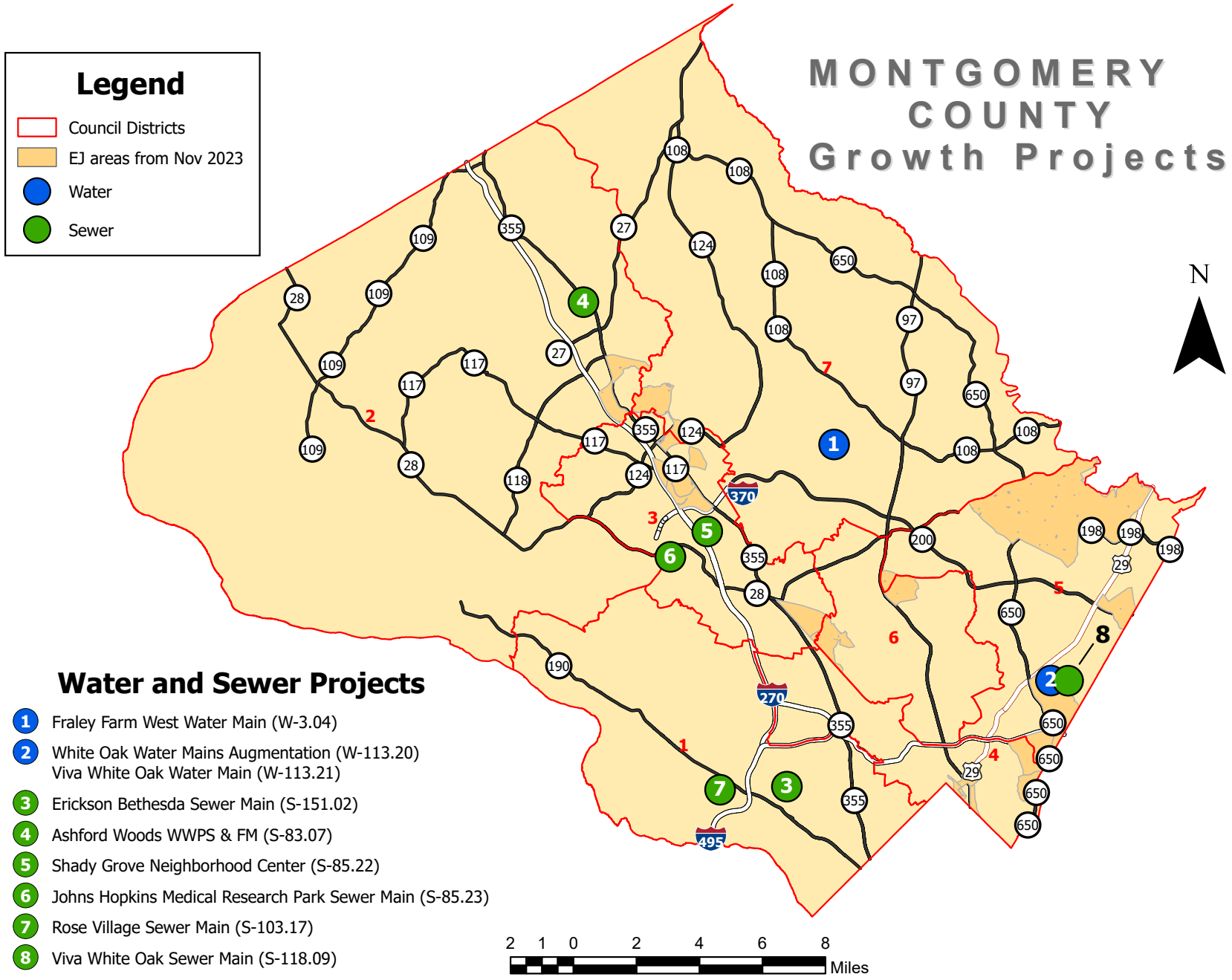
The portion of the six-year Combined Program needed to accommodate growth is approximately $184.0 million, which equals almost 4% of the six-year total expenditures, and $45.9 million or 6% of the FY 2026 budget. The funding sources for this part of the program are SDC revenues and payments by applicants. In the event that growth costs are greater than the income generated by growth funding sources, either SDC supported or water and sewage bonds may be used to close any gap.

The Maryland General Assembly, in 1993, first approved legislation authorizing the Montgomery and Prince George's County Councils to establish, and WSSC Water to impose, a System Development Charge. This is a charge on new development to pay for that part of the CIP needed to accommodate growth in WSSC Water's customer base. In accordance with the enabling legislation, the Councils approved this charge beginning in FY 1994. The SDC was approved at the maximum rate of $160 per fixture unit by Commission Resolution No. 95-1457, adopted May 24, 1995, and became effective July 1, 1995. In the 1998 legislative session, the General Assembly modified the charge by passage of House Bill 832 setting the fee at $200 per fixture unit with a provision for annual inflation adjustments. Subsequent resolutions have established a process for approving partial and full exemptions for elderly housing and biotechnology properties, as well as exemptions for properties in designated economic revitalization areas and properties used primarily for recreational and educational programs and services to youth.

WSSC Water estimated that there will be an overall growth funding shortfall of $23.8 million over the six-year program period. The surplus or shortfall between growth funding sources (SDC, developer contributions, and System Extension Permit applicant payments) and the estimated growth-related expenditures vary over the six-year period. If growth-related expenditures were to exceed the available SDC account balance in any given fiscal year, it is anticipated that new SDC-supported debt would be issued to cover this temporary gap. The debt will be repaid through future SDC collections, as allowed by state law. Further, it is currently anticipated that no significant additional growth projects will evolve in the later years of the six-year period. (A listing of SDC-eligible projects is included in Appendix D.)

An estimate of the surplus or shortfall for each fiscal year is presented in the table on the following page. To estimate the surplus or shortfall for an individual fiscal year, it is assumed that approximately 100% of the eligible expenditures will be expensed in a fiscal year. The projected surplus or shortfall is the difference between the eligible expenditures adjusted for completion and the sum of the various funding source.

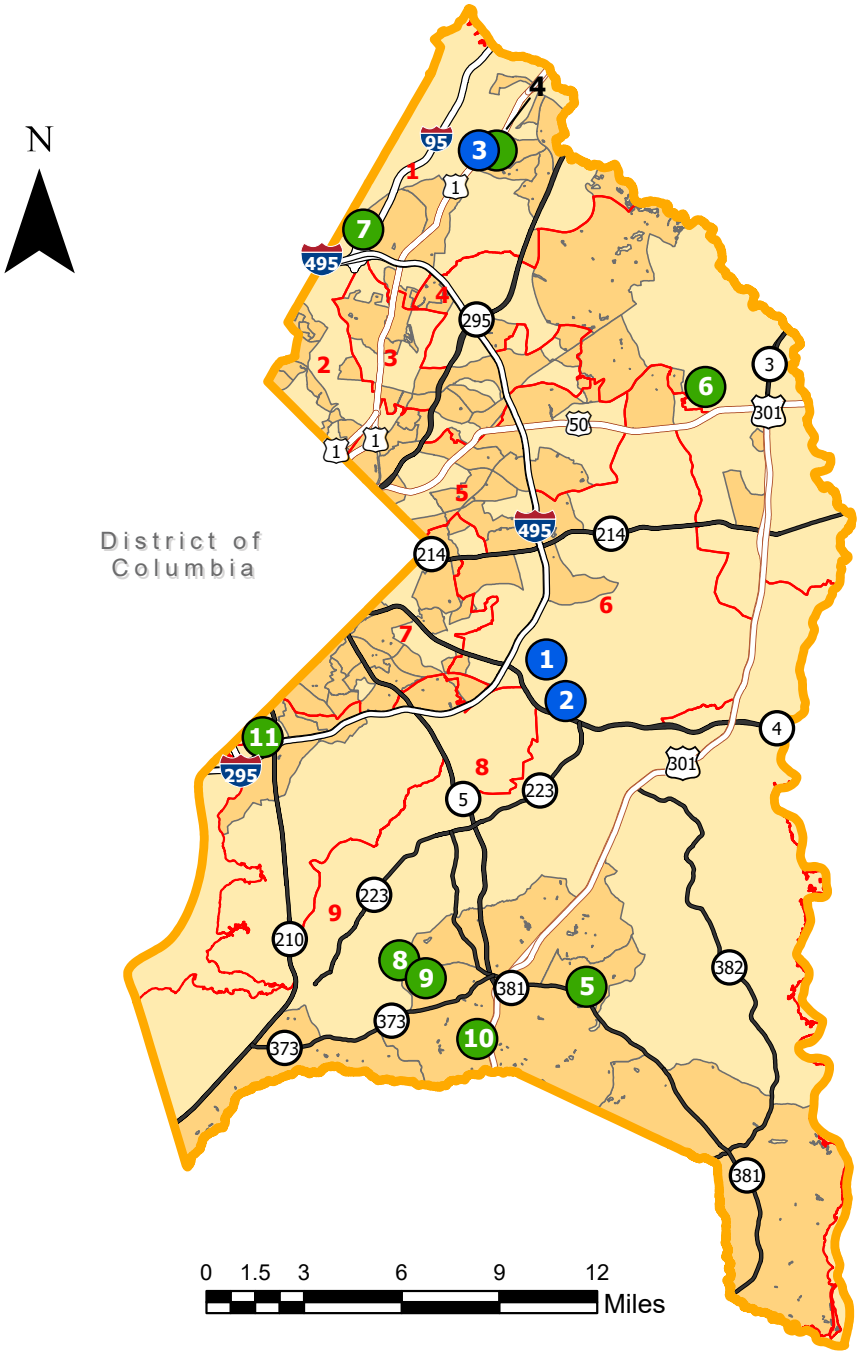
MONTGOMERY COUNTY Growth Projects



Water and Sewer Projects

1. Fraley Farm West Water Main (W-3.04)
2. White Oak Water Mains Augmentation (W-113.20)
   Viva White Oak Water Main (W-113.21)
3. Erickson Bethesda Sewer Main (S-151.02)
4. Ashford Woods WWPS & FM (S-83.07)
5. Shady Grove Neighborhood Center (S-85.22)
6. Johns Hopkins Medical Research Park Sewer Main (S-85.23)
7. Rose Village Sewer Main (S-103.17)
8. Viva White Oak Sewer Main (S-118.09)

PRINCE GEORGE'S COUNTY
Growth Projects



Legend

- Council Districts
- EJ areas from Nov 2023
- Water
- Sewer

Water and Sewer Projects

1. Smith Home Farms Water Main (W-84.03)
2. Westphalia Town Center Water Main (W-84.04)
3. Konterra Town Center East Water Main(W-93.01)
4. Konterra Town Center East Sewer (S-28.18)
5. Brandywine Woods WWPS & FM (S-75.23)
6. Freeway Airport WWPS & FM (S-87.20)
7. Viva White Oak Sewer Augmentation (S-118.10)
8. Pleasant Valley Sewer Main Part 2 (S-131.05)
9. Pleasant Valley Sewer Main, Part 1 (S-131.07)
10. Calm Retreat Sewer Main (S-131.11)
11. National View Sewer Main (S-131.14)

GROWTH FUNDING
(In Millions)

	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	6-Year Total
CIP GROWTH EXPENDITURES[2]	**$45.9**	**$24.0**	**$30.1**	**$37.4**	**$29.0**	**$15.7**	**$182.1**
FUNDING SOURCES							
Estimated SDC Revenue[3]	28.8	29.5	30.3	31.0	31.8	32.6	184.0
Estimated SDC Revenue	1.6	1.5	1.4	0.9	0.2	0.1	5.8
Total Estimated SDC Revenue	**30.4**	**31.0**	**31.7**	**31.9**	**32.0**	**32.7**	**189.7**
Privately Funded Projects	18.7	9.4	5.6	1.2	0.4	0.4	35.7
Less Debt Service on Bonded SDC Expenditures	(5.8)	(5.8)	(5.8)	(5.8)	(5.8)	(5.8)	(34.8)
Less SDC Developer Credits	(2.3)	(2.3)	(2.3)	(2.3)	(2.3)	(2.3)	(13.8)
Less SDC Exemptions[1]	(3.1)	(3.1)	(3.1)	(3.1)	(3.1)	(3.1)	(18.6)
Total Funding Sources	**$ 37.9**	**$29.2**	**$26.1**	**$21.9**	**$21.2**	**$21.9**	**$158.2**
FUNDING SURPLUS (SHORTFALL) ADJUSTED FOR COMPLETION	**$ (7.95)**	**$5.21**	**$(4.00)**	**$(15.53)**	**$ (7.82)**	**$6.23**	**$ (23.86)**

[1] Each County may grant SDC exemptions, as identified in Appendix A, totaling up to $500,000 per fiscal year as provided for in Maryland state law (Public Utilities Article, Section 25-403(b)). Unused exemption amounts are available for use in future fiscal years. Cumulative unused SDC exemptions totaled approximately $9.1 million for Montgomery County and $3.3 million for Prince George's County through June 30, 2025.

ENVIRONMENTAL FUNDING

WSSC Water is committed to protecting the natural environment of Prince George's and Montgomery Counties as it carries out its mandate to provide sanitary sewer and drinking water services. This commitment focuses on those unique natural and manmade features (waterways, woodlands, and wetlands, as well as parklands, historical sites, and residential areas) that have been indicated by federal, state, and local environmental protection laws and regulations. Specific impact information is included in the evaluation of alternatives by the Asset Management Program (AMP), if the environment features will be affected by the Adopted construction of a project. Six primary areas are addressed as appropriate:

1. **Stream Valleys** – identify the classification of the stream and, in general terms, the published water quality. From published maps, show the topography including the 100-year floodplain.

2. **Wetlands (Tidal and Non-tidal)** – using published maps, show the locations of these and give their classification.

3. **Woodlands or Forested Areas** – using aerial photographs or published maps, show the location of these and identify their type.

4. **Parklands** – using published maps, show the location of all land holdings of the M-NCPPC, the Department of Natural Resources, and the National Park Service.

5. **Steep Slopes** – using published maps, show all slopes greater than 15%.

6. **Historical/Archaeological Sites** – the Maryland Geological Survey (State Archaeologist) and Maryland Historical Trust will provide information on sites near the project alternatives. The M-NCPPC or County government may provide additional information of local interest.

A further extension of these protections has been funded by the approximately $519.2 million included in the six-year Program which is attributable to meeting environmental regulations. These projects, currently budgeted at 11% of the six- year Program costs, are mandated by the EPA under the Clean Water Act through the State of Maryland Department of the Environment in response to pollution controls in the form of more stringent state discharge permit requirements. The environmental component is allocated among the projects listed in the following table, and project details can be found on the individual PDFs included elsewhere in this document.

ENVIRONMENTAL SPENDING

PROJECT		Total 6Years (In Millions)
W-000073.33	Potomac WFP Consent Decree Program	$38.7
S - 000022.11	Blue Plains: Pipelines & Appurtenances	120.4
A - 000112.00	PFAS Management Strategy	256.5
A - 000109.02	Lead Reduction Program	103.6
Combined Program Expenditures Allocated to Environmental Regulations		**$519.2**

GREEN BOND PROJECT FUNDING

The International Capital Market Association (ICMA) describes the Green Bond market as an opportunity to enable and develop the key role that debt markets can play in funding projects that contribute to environmental sustainability. WSSC Water is committed to protecting the natural environment of Prince George's and Montgomery Counties as it carries out its mandate to provide sanitary sewer services and safe, clean drinking water. This commitment is reflected in the organization's core values of accountability, innovation, and environmental stewardship, which serve to guide and incorporate behavior and decision-making into the organization's investments into green buildings, pollution prevention and control, renewable energy, water quality, and climate change adaptation.

WSSC Water developed the Green Bond Framework as a guide in the management of our Green Bond Program. The Framework contains four key components: use of proceeds, evaluation and selection process, management of proceeds, and reporting.

Projects selected for Green Bond financing are eligible to be funded in whole or in part by an allocation of the Green Bond proceeds. Based upon WSSC Water's review of its capital project portfolio and in concert with the Green Bond Framework, the following projects will be financed with the proceeds from Green Bonds: Potomac Water Filtration Plant (WFP) Consent Decree Program and Large Diameter Water Pipe & Large Valve Rehabilitation Program.

Green Bond proceeds will be specifically directed to pay the costs of design, construction, property acquisition, and other related costs necessary for selected projects. Further, WSSC Water will produce an annual report detailing how the Green Bond proceeds were used to finance the selected projects, a description of the selected projects, and details of the environmental benefits resulting from the projects. More information on WSSC Water's Green Bond Program, Green Bond Framework, and reporting can be found on our website at: www.wsscwater.com/greenbond.

CIP PLANNING PROCESS

CIP DEVELOPMENT SCHEDULE

The CIP production cycle spans 14 months, beginning in the month of April. The organizational units responsible for project initiation submit project description forms (commonly referred to as PDFs) to the Finance Department (Budget Division). The expenditures and schedules displayed on each PDF represent the best estimate of the cost and the time it will take to plan, design, and construct a project. These submittals are comprehensively reviewed with the General Manager/CEO and senior staff in June to assess the addition of new projects, changes in cost or scope, criticality, priority, environmental sensitivity, adherence to County growth and public outreach policies, construction schedule changes, and spending affordability considerations.

Following this comprehensive review, worksessions are conducted by the Budget Division and the Engineering and Construction Department with the Prince George's and Montgomery County governments, Maryland-National Capital Park and Planning Commission (M-NCPPC), and local municipality representatives to solicit their input, and a draft document is presented to the Commissioners for their consideration. Draft CIP Public Hearing documents are published and distributed each August and the Commissioners' host public hearings in each County in September. The hearings are advertised in a major newspaper circulated in Prince George's and Montgomery Counties, through our webpage and social media, and special notices are sent to the Prince George's and Montgomery Counties' State Senators and Delegates, County Executives, County Council members, and County government staff. In addition, a notice is included with each water bill mailed to customers throughout the months of June, July, and August inviting them to participate in the public hearings. After considering all relevant comments, the Commissioners approve the Adopted CIP document and authorize transmittal to both County governments before October 1, in accordance with state law. As part of WSSC Water's ongoing effort to improve communication, transparency, and awareness regarding the CIP, WSSC Water will also be conducting additional public information sessions where possible.

After January of the following year, the Prince George's and Montgomery County Executives transmit their recommendations to their respective County Councils. Each County Council conducts separate public hearings and worksessions to consider additional modifications to the Adopted CIP. On or before May 15th, the County Councils meet jointly to agree on required changes, and on or before June 1st each year, enact formal resolutions identifying project modifications and approving the addition of new projects. WSSC Water then adopts these changes and additions before the beginning of the new fiscal year on July 1st. If the Councils do not jointly agree on changes by June 1st, under law, the CIP is approved as adopted.

THE PLANNING PROCESS

The planning process incorporates engineering data, environmental requirements, economic factors, and public interaction to establish a sound basis for making decisions, for efficiently conducting and documenting specific work tasks, and for successfully implementing needed solutions. The planning process utilizes business case studies, as needed, to identify needs, develop and evaluate options, and identify a preferred solution. An important goal in the process is to produce a result that is acceptable to citizens, elected officials, regulatory agencies, and WSSC Water at a reasonable cost.

A number of outside influences affect the project planning process. Water and sewer projects are essentially an infrastructure response to land use decisions made by the two County governments and demographic information (population forecasts) provided by the Metropolitan Washington Council of Governments (MWCOG) and the M-NCPPC. These elements are used to calculate projected water and sewerage demands. WSSC Water must also consider environmental consequences and compliance with federal and state regulations such as the Clean Water Act and Safe Drinking Water Act. The needs analysis process also incorporates both County governments' guidance on service policies as contained in the Comprehensive 10-Year Water and Sewerage Plans. Generally stated, the goals, purposes, and concepts provided by the Prince George's and Montgomery County governments require that the water and sewerage systems be consistent with officially approved local and general plans and provide adequate capacity to accommodate the foreseeable development of the area served based upon population and employment projections. This requirement corresponds with what has always been WSSC Water's policy: to provide utility service to the type and location of development that each County governing body has approved, if economically and otherwise feasible. Figure 1, on the following page, displays the overall CIP project development and approval process.

PUBLIC OUTREACH

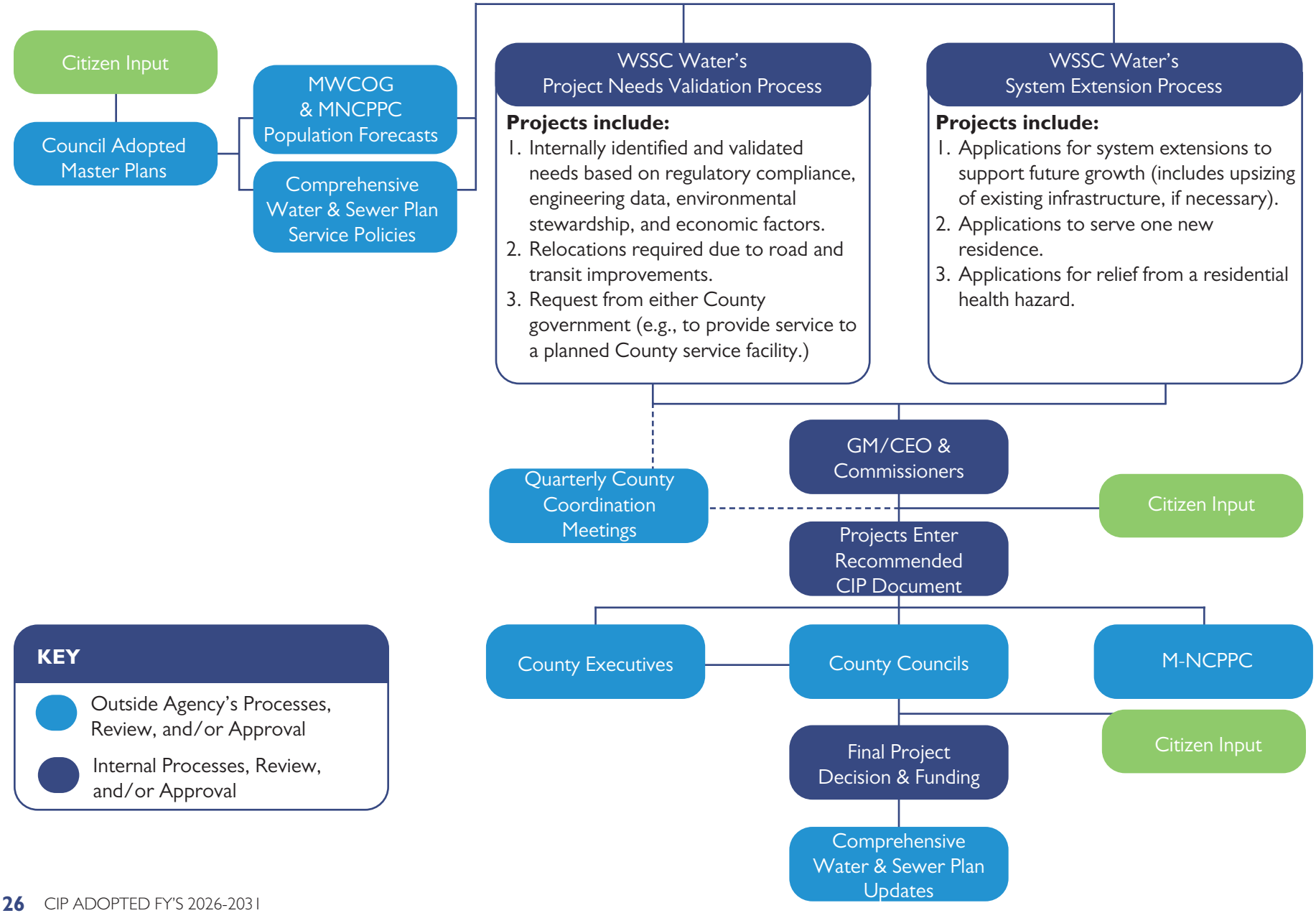
WSSC Water's proactive Project Outreach program is an integral part of our process to include early public involvement in projects. Seven Public outreach events across the two Counties were conducted in preparation of the FY2026-2031 budget. The objective is to inform affected communities about WSSC Water's plans, actively seek their input, and respond to their concerns. WSSC Water's planning approach is an open process, receptive to public comment and involvement. Residents of Prince George's and Montgomery Counties are given the opportunity to review clear, accessible documents that describe the rationale behind program planning and project decisions. The overall outreach goals are to:

- identify community and public policy issues early in the planning stage.
- address the known community concerns and environmental issues that are within the reasonable context of the planning effort.
- promote community understanding of system needs and demands, and the planning process used by WSSC Water to maintain public health standards and water quality protection.
- provide constructive forums for community involvement and information throughout the planning process.
- provide a clear understanding of the decision-making process.
- address potential health and environmental risks.
- establish and maintain open lines of communication.

The Project Outreach program advocates achieving planning goals through a collaborative effort among staff, technical experts, citizens and/or organizations, and public officials. Fostering community involvement allows WSSC Water to be responsive and sensitive to community concerns, to define the best approach to address customers' concerns, and to garner community support while meeting public health objectives.

CIP PROJECT DEVELOPMENT AND APPROVAL PROCESS

Figure 1



WSSC WATER'S ASSET MANAGEMENT PROGRAM

To address WSSC Water's Priorities, in particular those to Service Delivery and Financial Stewardship, the objective of the Asset Management Program (AMP) is to identify infrastructure needs and investment strategies for the next 30 years, or more, and develop and implement an asset management framework for optimal investment decision-making. A key task is to identify the existing and future capacity, regulatory, and rehabilitation/repair/replacement requirements for the next 30 years. The AMP provides input to WSSC Water's multi-year financial forecasting and develops and refines a 30-year capital investment projection based on the following requirements: regulatory, capacity, maintenance, rehabilitation/replacement, process control, energy conservation, efficiency, and reliability. WSSC Water is reviewing the AMP and budget planning approach during FY 2025 to ensure alignment with an outcome and a needs-based approach which is paramount.

As a first step, capital projects in the CIP will be tagged to the following program categories: General Facilities, Water Treatment and Storage, Water Resources Recovery, Wastewater Collection, Water Distribution, Innovation and Investment Priorities, and Interjurisdictional Agreements. Furthermore, capital investment needs will be prioritized as: Priority 1a – Regulatory and Mandates; Priority 1b – Health and Safety, and Business Risk Exposure; Priority 2 – Operational Efficiencies/ Level of Service; Priority 3 – Reliability and Resilience; Priority 4 – Maintaining State of Good Repair; and Priority 5 – Initiatives/ Plans and Policies.

The AMP needs validation process changes in FY 2026 include:

- enhancement of the equity lens in the CIP prioritization process and include it throughout an asset's lifecycle;
- modify the collection of WSSC Water's performance measure data to WSSCs level of service can be measured and compared to our goals at the community level; and
- initiate a facility planning process that will utilize the AMP's future needs projections to identify the scope and schedule of facility plans.

As our review progresses, additional information on the development of the enhanced process will be presented and detailed.

HOW PROJECTS ENTER THE CIP

The AMP systematically identifies and validates water and wastewater needs through its Project Needs Validation Process and is the primary source of new projects. Figure 2 depicts some of the key elements of needs validation process.

Figure 2

OVERVIEW OF WSSC WATER'S PROJECT NEEDS VALIDATION PROCESS

WSSC Water's needs assessments and facility plans may identify other potential projects. A project may be added in response to relocation requirements due to road or transit improvements or the need to construct a segment of pipe in advance of paving. Projects may also be included at the request of either County government, usually to provide service to a planned County service facility, or in response to a request for service from a permit applicant for new development through the System Extension Process. Projects may also enter the CIP when they are split from previously approved projects. Projects may be split either at the request of the applicant or for administrative reasons such as to afford better project management or to provide greater clarity to the reader.

SYSTEM EXTENSION PROCESS (SEP)

SEP projects are undertaken by developers (or "applicant" for permit) to support future growth. Service to properties approved under the SEP almost always require the extension of small diameter subdivision lines and may involve program-sized pipes that must be included in the CIP. This document includes only the portion of an applicant's total pipe extension or pumping facility requirements and associated costs that conform to the definition provided in the Statutory Basis section at the beginning of this narrative.

To initiate a project, the applicant will submit preliminary subdivision plans to the Planning Department of the M-NCPPC for their County. WSSC Water will review these submittals for water and/or sewer service, including a determination if the property to be served is located within the appropriate "service category." (Service category designations are a staging tool employed by and strictly administered in the Comprehensive 10-Year Water and Sewerage Plans by both County governments. If the property is not in the correct service category, the applicant must contact the appropriate County office to begin a County 10-Year Plan amendment process for reconsideration of the service area designation currently assigned to the property. If a designation change is approved later by the County Council, the applicant may proceed with the construction of the project.) Once it has been determined that the property to be served is located within the appropriate service category, and a request for Hydraulic Planning Analysis (HPA) is made and completed, WSSC Water issues a Letter of Findings (LOF) which specifies the project conditions that must be met prior to the start of construction. The need for a CIP-sized project is identified during the HPA review. WSSC Water will perform a review of the design plans for compliance with requirements. Construction can begin when design plans have been approved, all necessary permits and rights-of-way have been obtained, and the applicant has satisfied all other project conditions. More than a third of the projects in this document are SEP-related.

For those projects serving one new residence or providing relief from a residential health hazard, the applicant may hire an engineer to follow the SEP or can opt to follow the WSSC Water Built Process. Each step in the WSSC Water Built Process is done at the applicant's expense. In this case, the applicant will prepare a feasibility study for review and for WSSC Water to issue a feasibility LOF. The LOF will again specify any project conditions and advise the applicant of their cost responsibilities. If the applicant elects to proceed with the WSSC Water Built Process, WSSC Water will prepare the design plans. Once the applicant has met all the project conditions from the LOF, the design plans are approved, and all permits and rights-of-way are acquired, WSSC Water will proceed with the construction of the project at the applicant's expense. However, such projects rarely include CIP-sized mains.

PROJECT DEVELOPMENT CRITERIA

It has been WSSC Water's policy to have facilities in service when they are needed so that new development demands on the system do not result in a reduction of the level of service provided to existing customers. This policy provides for unrestricted water supply and no sewage overflows and avoids a water or sewer connection moratorium. This general service policy guides the planning and sizing of the systems and requires that both the water and wastewater systems are sized to handle the peak or maximum demands, adjusted for weather-related usage. The task is to balance cost and affordability with environmental consequences, risk, and system reliability.

Water and wastewater systems are composed of functionally different sub-systems: treatment, transmission, distribution, collection, and storage. Ideally, the capacity of each component should match the capacity of the other parts of the system. An example of a real situation from the past is the comparison of the Blue Plains Advanced Wastewater Treatment Plant to the Muddy Branch and Seneca Creek wastewater transmission systems. The plant had enough capacity but, in contrast, probable peak flows in the sewers exceeded pipeline capacity. These were part of the same network, yet one of the sub-systems had excess capacity, while other parts, although connected, were deficient. Transmission projects to correct this imbalance were completed in these basins, ensuring capacity to handle future flows in the conveyance systems.

For most facilities, WSSC Water plans enough capacity to last 20 years or more. Longer range planning is done when it seems clear that adding capacity incrementally will not be economical, feasible, nor is significantly disruptive. A pipeline is sized for full development, or "build out" of its service area, to avoid repeated environmental and community disruption caused by construction. In most cases, this results in a service life that extends beyond 20 years. Since the weather-related usage and future population projections are broad-based estimates of future conditions used in the calculation of future flow demands, the rate at which predicted flows increase or decrease in a pipeline system is somewhat variable, but still useful in providing a long-range target for timing the project construction. WSSC Water conservatively estimates the lead time required to plan, design, and construct a facility, and projects enter the CIP on that basis. It is not unusual for 10 or more years to elapse before a major facility project, such as a treatment plant, is finished following its initial appearance in this document.

Twenty-year estimates of increases in customer demand are based on the most recent M-NCPPC demographic forecasts of population, dwelling units, and employment. Estimates of full development demands are based on the most current land use and zoning information available from the M-NCPPC. This data is organized by Traffic Analysis Zones in Montgomery County and by Policy Analysis Zones in Prince George's County. The information is then disaggregated by sub-basins for use in the planning and sizing of projects.

PROJECT ESTIMATES

Pipeline cost estimates are developed through the use of a detailed checklist of cost elements. The comprehensiveness and uniformity of planning-level cost estimates is significantly improved through the inclusion of more site-specific details, previously not considered until advanced stages of design. Through this process the number of projects with cost increases that typically occur when a project transitions from the preliminary planning phase to the design phase is greatly reduced.

Actual design plans and profiles, if available, are analyzed together with United States Geological Survey soil maps. Additional factors such as site access, excessive traffic, known jurisdictional constraints, presence of rock or running sand, work through existing neighborhoods or open fields, and proximity to other existing utility lines are taken into consideration. The base prices upon which the estimates are predicated are derived from both historical cost data and the most recent bid information. The specific final unit prices are increased or decreased, dependent upon factors such as those listed above. In addition, all environmental mitigation costs for efforts such as reforestation are already included in the individual project costs. Regardless of the extensive checklist, some additional costs may be required by permitting agencies to reflect unpredictable requirements for things such as changes in alignment, more complex traffic management plans, or for changes in permit requirements for more stringent erosion protection measures at construction sites. The need for these kinds of features is project specific and is identified on individual PDFs when appropriate.

Order of magnitude cost estimates for major facility projects (e.g., treatment plants and pumping stations) are first derived from business case studies in the planning stage and further refined in the design phase based on estimates developed by consulting engineers. WSSC Water requires that projects be re-evaluated by consulting engineers at the 30% and 70% stages of design. Estimated construction costs, reflecting any modifications, are identified on the individual PDFs, if applicable. Because the costs displayed in the CIP are estimates and not actual costs, construction contingencies may be added.

The "Other" cost element, displayed in Block B, in the Expenditure Schedule on each PDF, is a broad estimate of the direct and indirect expenses associated with the implementation of each project and is not covered by the other major cost categories. These costs include direct support costs for a project such as salaries, wages, and related personnel costs (Social Security, retirement, etc.), and services, rentals, supplies, mileage, and other expenses. This element is estimated for the majority of the projects in this document by multiplying the sum of the project's Planning, Design and Supervision and Construction cost elements in each column on the PDF by a constant 15.0%. There are exceptions: a value, based upon 1.0%, is applied to Blue Plains project costs; a constant of 10.0% is used to more realistically estimate these expenses for projects with a total estimated cost of $10.0 to $49.9 million; and, a constant of 5.0% is used for projects with a total estimated cost of $50.0 million or more.

A project's previous expenditures, which include all direct, indirect, and overhead costs, are shown on the PDF in the Block B Expenditure Schedule in the "Thru" column. These expenditures are accessed from the financial information system through the period ending March 31st of each year. End of the fiscal year expenditures were not available in time for the development of project expenditure schedules and are estimates.

PROGRAM DESCRIPTION

Project information displayed in these PDFs, and as prescribed under Section 23-303 of the Public Utilities Article of the Annotated Code of Maryland, includes as applicable: estimated diameter, length, and location of pipelines; design capacity; population and area to be served; project justification; project expenditure schedule showing the estimated cost and funding sources; and, where applicable, a map. PDFs are organized within the following major sections: Montgomery County Water, Montgomery County Sewer, Bi-County Water, Bi-County Sewer, Prince George's County Water, Prince George's County Sewer, and Information Only. A financial summary of expenditures by major section is included in Figure 4 at the end of this narrative. Project number prefixes indicate a water (W-), sewerage (S-), or administrative (A-) project. Administrative projects are included in the Information Only section and refer to projects that may be attributable to both water and sewerage. Each major section includes a financial summary for the projects in that section, a list of new projects, a PDF for each project, and a list of projects that are being closed out in the section.

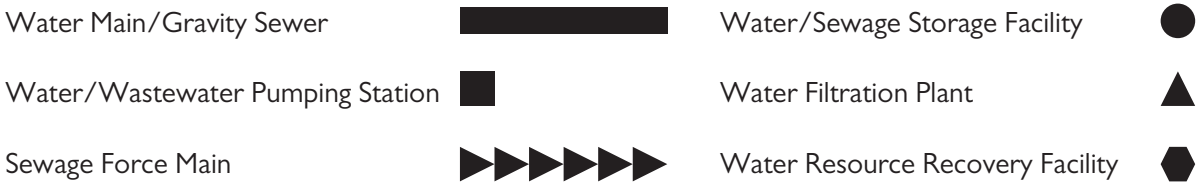
Projected acquisition costs for land, rights-of-way, and any watershed buffer property are consolidated onto composite PDFs (W-202.00 and S-203.00). This format provides flexibility in expending funds in a specific fiscal year and permits WSSC Water to respond to the uncertainty of implementation schedules, unpredictable delays, unanticipated rights-of-way requirements, and the need to assure an equitable negotiation position by avoiding project-specific cost displays prior to contacting property owners. When a land purchase has been concluded, this cost is transferred back to the individual project.

A projects pending close-out list is included at the end of each major section when required. Each list contains projects which were approved and included in the prior adopted CIP, but which do not appear in this program for reasons such as expected construction completion or project cancellation.

This document also contains an Information Only projects section. Projects in this section are not required to be in the program under Section 23-303 of the Public Utilities Article of the Annotated Code of Maryland but may be included for any number of reasons such as: fiscal planning purposes; the reader's improved understanding of the full scope of a specific set of projects; and responding to requests from County governments. Expenditures for Information Only projects, shown separately on the financial summary, are not included as part of the CIP six-year program costs. The Combined Program is the sum of the CIP and Information Only projects and represents the entire WSSC Water capital request.

Expenditure projections for the first year of the six-year program, as shown on each PDF in Block B, column Year 1, are included in the capital budget and the operating budget includes the requisite debt service. In addition to adopting a six-year CIP, the Montgomery and Prince George's County governments also annually review and approve WSSC Water's capital and operating budget.

The following symbols are used on the individual project maps to represent different types of water and sewerage system components:



WATER TREATMENT/DISTRIBUTION SYSTEMS

The provision of potable water involves three major areas: supply, treatment, and distribution. The Potomac and Patuxent Rivers are the two sources of water supply for the WSSD, with the majority of water coming from the Potomac. Raw water is taken directly from the natural flow of the Potomac River into the Potomac Water Filtration Plant in Montgomery County. Water from the Patuxent River is impounded by two reservoirs in series. The upstream reservoir is named the Triadelphia Reservoir and releases its flows into a segment of the Patuxent River before it flows into the T. Howard Duckett Reservoir, both of which are the sources of supply to the Patuxent Water Filtration Plant in northern Prince George's County. These reservoirs have a combined storage capacity of approximately 10.4 billion gallons of usable water. The two filtration plants have produced an average of 162.0 million gallons of potable water per day over the last five fiscal years.

The natural flow in the Potomac River can be augmented during low flow conditions by two other reservoirs if the river flow is predicted to be inadequate to supply the demands of the regional water utilities. The Jennings Randolph Reservoir, impounding 13.0 billion gallons of emergency raw water supply, is located on the North Fork of the Potomac River in West Virginia, and is owned and operated by the U.S. Army Corps of Engineers. Little Seneca Lake in Montgomery County provides an additional 3.8 billion gallons of useable raw water storage, and is owned and operated by WSSC Water. Both reservoirs are shared by users in the Washington Metropolitan area, including the U.S. Army Corps of Engineers and the Fairfax County Water Authority. Withdrawal during low flow conditions is governed by the terms of the Potomac Low Flow Allocation Agreement of 1981, as amended, and is administered by the Interstate Commission on the Potomac River Basin.

As raw water enters a plant, it goes through several stages of filtration and purification. Much of the finished water produced at the plants has to be pumped into the distribution system. Water pumping stations are strategically located throughout the WSSD to move water to higher topographic elevations to maintain adequate system pressure. The WSSD is divided into 87 major pressure zones that represent hydraulically separated segments of the water system. The pipelines within each of the zones must be designed to serve not only customers within the confines of that zone, but also customers in adjacent interconnected zones. Water to zones at higher elevations must be pumped; water to lower elevations must be closely controlled with pressure regulating valves. A system under pressure enables the pipes to be laid uphill or downhill, with the flow direction independent of the slope of the ground. The design and operation of a water system is a complex task which requires detailed knowledge of the interrelationships between the source of supply, the location of pumping stations, pump characteristics, pressure reducing valves, storage facilities, pipe diameters and capacity characteristics, consumption patterns throughout the day, operating techniques and costs, and location of our 1.9 million customers spread out over a service area of nearly 1,000 square miles.

The 51 elevated tanks, standpipes, and ground-level storage structures in the distribution system are filled with finished, filtered water to meet daily peak customer demand and to provide reserves for fire protection and emergencies. A network of 6,000 miles of underground water pipeline delivers water to homes, apartments, schools, hospitals, businesses, and all other types of buildings where water meters measure the amount of water used. All customer accounts are metered and billed based upon individual usage. For over 100 years, these facilities have been operated and maintained by WSSC Water 24 hours a day, 7 days a week, including holidays, in order to provide safe and reliable service to our customers.

WATER RESOURCE RECOVERY FACILITIES/WASTEWATER COLLECTION SYSTEMS

WSSC Water's water resource recovery facilities have been nationally recognized as a Utility of the Future Today by the National Association of Clean Water Agencies (NACWA), the Water Environment Federation (WEF), the Water Research Foundation (WRF), and the WateReuse Association, with input from the U.S. Environmental Protection Agency (EPA), for transformational work in community engagement, watershed stewardship, and recovery of resources such as water, energy, and nutrients. The Utility of the Future Today designation recognizes water utilities that have transformed from the traditional wastewater treatment system to a resource recovery center and leader in the overall sustainability and resilience of the communities they serve, recovering resources from wastewater, engaging in their community, forming unique partnerships, and building an internal culture of innovation. As one of the country's most effective pollution control networks, WSSC Water facilities go beyond conventional, second-stage treatment to provide "tertiary treatment," which is an advanced treatment process. All of WSSC Water's facilities employ state of the art, integrated, enhanced nutrient removal processes that significantly reduce the amount of nitrogen and phosphorous reaching the Chesapeake Bay. These features ensure that the quality of the effluent (treated wastewater discharged from the facilities) is better than the natural waters into which it is returned.

Wastewater operations are divided into two functions: treatment and conveyance of sewage. Sewage treatment is accomplished through a network of facilities, the base of which is the regional water resource recovery facility. WSSC Water owns and operates six water resource recovery facilities, which receive and process waste from residences, businesses (where waste is a by-product of the manufacturing process), restaurants, hospitals, and other commercial and industrial users. During the water resource recovery process, solid material is removed, harmful organisms are destroyed, and excess disinfection products are neutralized before the remaining liquid, the effluent, is returned to the waters of Maryland.

WSSC Water's six facilities have a combined capacity of 95 million gallons per day (MGD). The six facilities are Piscataway, Western Branch, Parkway, Seneca, Damascus, and Hyattstown. Unlike the water system, operation of the sewerage system is highly dependent upon other area jurisdictions and, for this reason, WSSC Water has purchased 169.6 MGD of treatment capacity at the Blue Plains Advanced Wastewater Treatment Plant located in the District of Columbia, 3.0 MGD of treatment capacity at the Mattawoman Wastewater Treatment plant located in northern Charles County, and 20,000 gallons per day of treatment capacity in the Town of Poolesville's wastewater treatment plant. The capital costs of the Blue Plains and Mattawoman plants are shared among the users based upon treatment capacity allocations. WSSC Water also pays to the District of Columbia and Charles County a share of the operating, maintenance, and overhead costs at each plant, in proportion to actual

flows. These cost-sharing arrangements were agreed to in the Intermunicipal Agreement of 2012 and the Mattawoman Agreement of 1980, respectively. Sewer capacity purchased in the Poolesville plant is in accordance with the May 1984 agreement between the Town of Poolesville and the Montgomery County government.

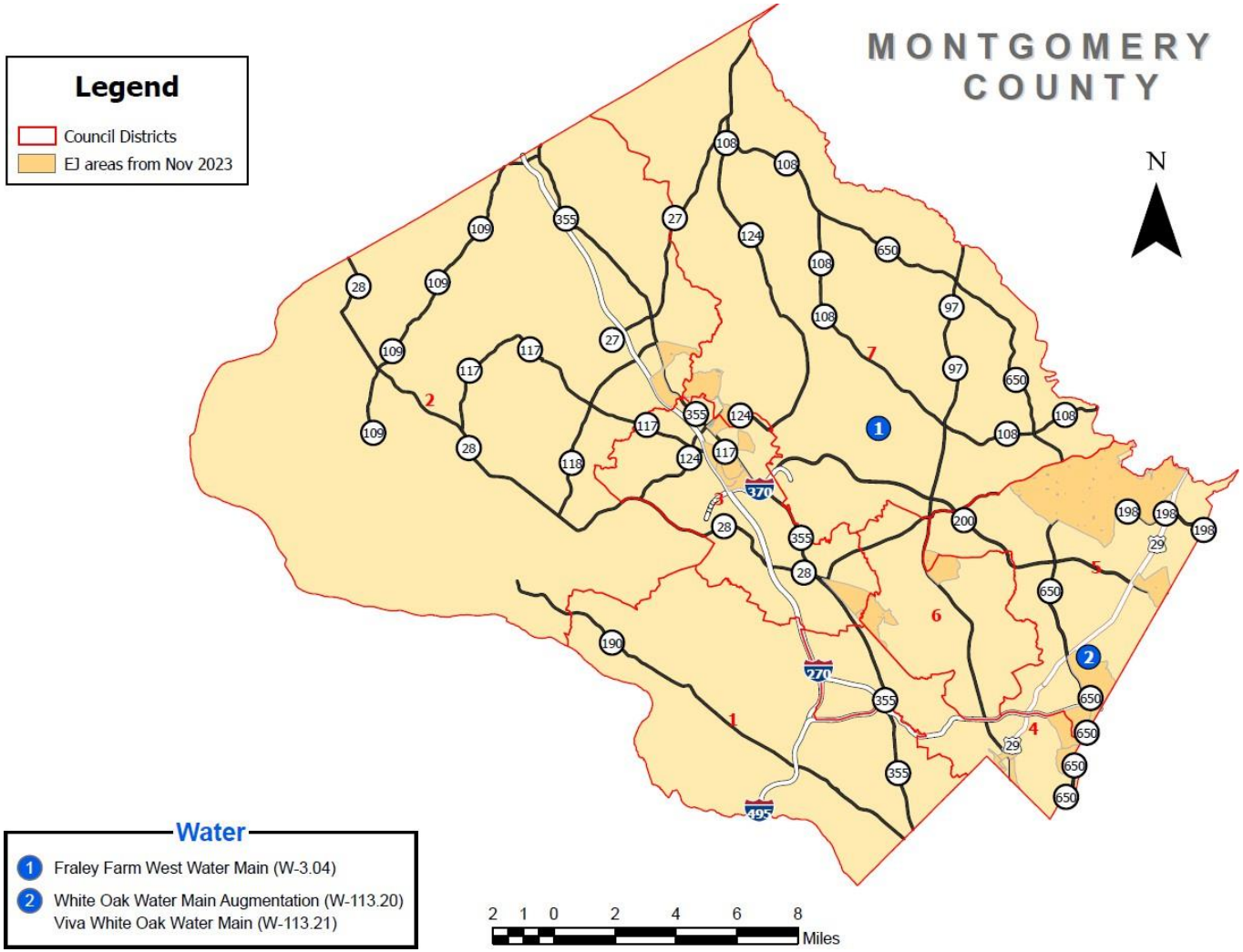
The other function of the sewerage system is to convey waste flows from the point of origin (for example, from a customer's home) to a point of treatment. The sewerage network contains 5,700 miles of pipeline, with pipe sizes ranging from 6 to 102 inches in diameter and is predominantly a gravity system. This means the flow travels in a downhill direction without any other help and, therefore, sewers generally flow along streambeds towards the lowest elevation in a basin. The sewers in one drainage basin are independent of those in other basins. There are 13 major drainage basins in the WSSD.

The largest diameter pipelines (interceptor sewers) extend out from the treatment plant to the major lines (trunk lines) within individual drainage basins. Smaller diameter pipelines (outfalls) run up sub-basins from the major lines. Even smaller lines (laterals), usually built in or along subdivision streets to provide service to abutting properties, lead up to hundreds of thousands of individual service connections (hookups from the pipe in the street to a private home or building) to be served by the remainder of the conveyance system. Ideally, the entire system would provide for the gravitational flow of waste from the individual houses, businesses, and other sources through the laterals in the various subdivisions to the outfalls and through the larger diameter interceptors to the water resource recovery facility. Because gravity cannot always be used to accomplish this ideal pattern of flow, WSSC Water has more than 50 wastewater pumping stations in operation, and others in standby status, throughout the WSSD. These pumping stations range from 0.06 to 306 MGD in capacity. Pumping stations lift wastewater through a pressure line called a force main, over ridges or from stream valleys that have no continuous trunk sewer, into the gravity-flow system of an adjacent drainage basin that contains existing pipeline and water resource recovery facilities. All WSSC Water wastewater flows through enclosed trunk line systems and is completely separate and independent from the storm drain system. These facilities are maintained by WSSC Water.

In addition, small pressure systems exist throughout the WSSD. A typical system is comprised of a grinder pump (one for each dwelling unit grouped in a small residential development) contained in a sump pumping through a plastic force main, and then connecting to a gravity sewer line located nearby. This type of system is limited in size and is necessary to overcome minor changes in topography to avoid the construction of a conventional gravity line in another direction where the distance to an existing sewer would be considerably greater and less cost effective.

Approximately 63% of all wastewater originating in Montgomery County and central Prince George's County follows the Anacostia, Rock Creek, and Potomac River Valleys, to the Blue Plains Advanced Wastewater Treatment Plant. WSSC Water's proportionate share of capital costs at Blue Plains, to meet suburban Maryland's treatment requirements, have represented some of the most significant planned expenditures in this document. Capital investment into the Blue Plains' plant supports necessary expansion replacement, or rehabilitation of the existing water and sewerage systems, as well as continuing a high level of service and reliability, protecting the health of current and new customers, and mitigating impacts on the environment.

Section 1 - Montgomery County Water Projects



DATE: October 1, 2024

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

MONTGOMERY COUNTY WATER PROJECTS

AGENCY NUMBER	PROJECT NAME	EST. TOTAL COST	EXPEND THRU 24	EST. EXPEND 25	TOTAL SIX YEARS	EXPENDITURE SCHEDULE						BEYOND SIX YEARS	PAGE NUM
						YEAR 1 FY26	YEAR 2 FY27	YEAR 3 FY28	YEAR 4 FY29	YEAR 5 FY30	YEAR 6 FY31		
Water Distribution (Water Mains and Pump Stations)													
W - 000003.04	Fraley Farm West Water Main	1,003	-	86	917	917	-	-	-	-	-	-	I-3
W - 000113.20	White Oak Water Mains Augmentation	10,965	607	6,512	3,846	3,744	102	-	-	-	-	-	I-4
W - 000113.21	Viva White Oak Water Main	2,058	-	-	2,058	822	515	309	206	104	102	-	I-5
	CATEGORY SUBTOTAL	**14,026**	**607**	**6,598**	**6,821**	**5,483**	**617**	**309**	**206**	**104**	**102**	**-**	
	Projects Pending Close-Out	-	-	-	-	-	-	-	-	-	-	-	I-6
	TOTALS	**14,026**	**607**	**6,598**	**6,821**	**5,483**	**617**	**309**	**206**	**104**	**102**	**-**	

WSSC WATER FYs 2026 - 2031 COMBINED PROGRAM

NEW PROJECT LISTING

(ALL FIGURES IN THOUSANDS)

AGENCY NUMBER	PROJECT NAME	TOTAL PROJECT COST	SIX YEAR PROGRAM COST	BUDGET YEAR COST	PAGE NUMBER
W - 000003.04	Fraley Farm West Water Main	1,003	917	917	I-3

Fraley Farm West Water Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000003.04		Add

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Montgomery High Zone HG660A
Drainage Basins	
Planning Areas	

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	100		75	25	25						
Land											
Construction	772			772	772						
Other	131		11	120	120						
Total	**1,003**		**86**	**917**	**917**						

C. Funding Schedule (000's)

Contributions/Other	1,003		86	917	917						

D. Description & Justification

DESCRIPTION

The project is a 16" main that will have an approximate length of 4000 linear feet along Bowie Mill Road. The subdivision will be known as Fraley Farms and abuts Fraley Farm Rd.

BENEFIT

JUSTIFICATION

This is an extension to provide service for 42 Single Family Dwelling Units along Bowie Mill Road.

COST CHANGE

N/A

OTHER

The present project scope was developed for the FY'26 CIP and has an estimated total cost of $1,000,000.

COORDINATION

Coordinating Agencies: Maryland-National Capital Park & Planning Commission; Montgomery County Department of Public Works and Transportation
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$82	
Debt Service		
Total Cost	$82	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

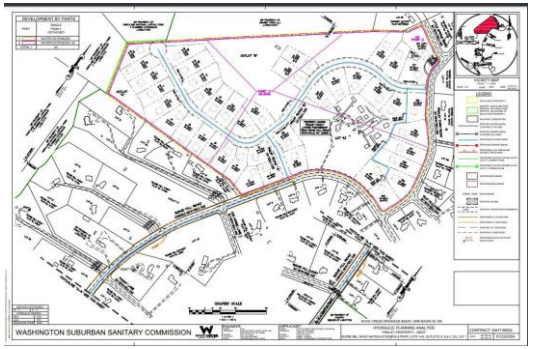
Date First in Program	03/26/2024
Date First Approved	N/A
Initial Cost Estimate	1,000
Cost Estimate Last FY	
Present Cost Estimate	1,003
Approved Request Last FY	
Total Expense & Encumbrances	
Approval Request Year 1	917

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	33 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	126
Capacity	

H. Map



White Oak Water Mains Augmentation

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000113.20	382001	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Montgomery Main 495A
Drainage Basins	
Planning Areas	Fairland-Beltsville (PG) PA 61; Langley Park & Vicinity PA 65

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	641	607	20	14	14						
Land											
Construction	9,383		5,900	3,483	3,390	93					
Other	941		592	349	340	9					
Total	**10,965**	**607**	**6,512**	**3,846**	**3,744**	**102**					

C. Funding Schedule (000's)

SDC	10,965	607	6,512	3,846	3,744	102					

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction required for the replacement of 7,015 feet of 4-inch to 20-inch diameter water main along Cherry Hill Road, Gracefield Road, and Powder Mill Road to serve three planned projects in the White Oak area: Washington Adventist Hospital, VIVA Global LifeSci Village, and Food & Drug Administration White Oak Master Plan.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand; System Reliability: This project will improve service reliability through fewer and shorter service interruptions

JUSTIFICATION

The existing mains in these areas will be upsized to provide adequate capacity to serve domestic and fire flow needs for the three new developments. The mains will also provide additional looping and redundancy to the 495A Pressure Zone.

MWCOG Round 8.0 growth forecasts; WSSC Memorandum dated November 21, 2017; Capital Needs Process Validation #122 submitted December 4, 2017.

COST CHANGE

Not applicable.

OTHER

The project scope has been revised to remove 635 feet of pipe that was constructed under another project. The schedule and expenditure projections shown in Block B above are preliminary design level estimates and are expected to change based upon site conditions and design constraints. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland State Highway Administration; Montgomery County Government; Prince George's County Government
Coordinating Projects: W - 000113.21 - Viva White Oak Water Main

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$145	27
Debt Service		
Total Cost	$145	27
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

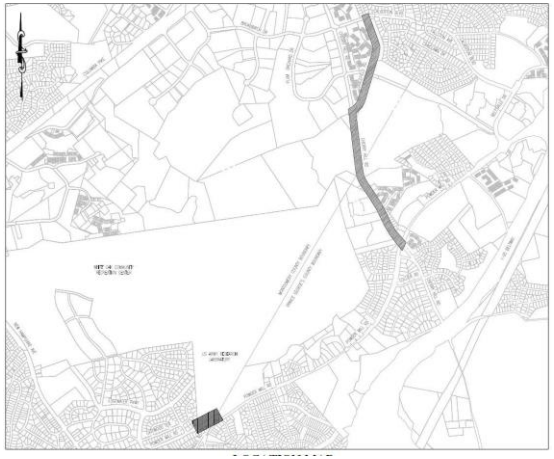
Date First in Program	FY'20
Date First Approved	FY'20
Initial Cost Estimate	4,830
Cost Estimate Last FY	11,472
Present Cost Estimate	10,965
Approved Request Last FY	7,502
Total Expense & Encumbrances	607
Approval Request Year 1	3,744

G. Status Information

Land Status	Not Applicable
Project Phase	Design
Percent Complete	98 %
Estimated Completion Date	June 2026

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	

H. Map



Viva White Oak Water Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000113.21	382202	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Montgomery Main 495A
Drainage Basins	
Planning Areas	Colesville-White Oak & Vicinity PA 33; Fairland (MC) PA 34

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	411			411	164	103	62	41	21	20	
Land											
Construction	1,379			1,379	551	345	207	138	69	69	
Other	268			268	107	67	40	27	14	13	
Total	**2,058**			**2,058**	**822**	**515**	**309**	**206**	**104**	**102**	

C. Funding Schedule (000's)

Contributions/Other	2,058			2,058	822	515	309	206	104	102	

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 8,900 feet of 16-inch diameter water main to serve Viva White Oak and vicinity.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Viva White Oak Hydraulic Planning Analysis (July 2019).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Public Works and Transportation; Montgomery County Government
Coordinating Projects: S - 000118.09 - Viva White Oak Sewer Main; S - 000118.10 - Viva White Oak Sewer Augmentation; W - 000113.20 - White Oak Water Mains Augmentation

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$183	
Debt Service		
Total Cost	$183	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'22
Date First Approved	FY'22
Initial Cost Estimate	1,780
Cost Estimate Last FY	2,058
Present Cost Estimate	2,058
Approved Request Last FY	822
Total Expense & Encumbrances	
Approval Request Year 1	822

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	20 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	53,300
Capacity	

H. Map

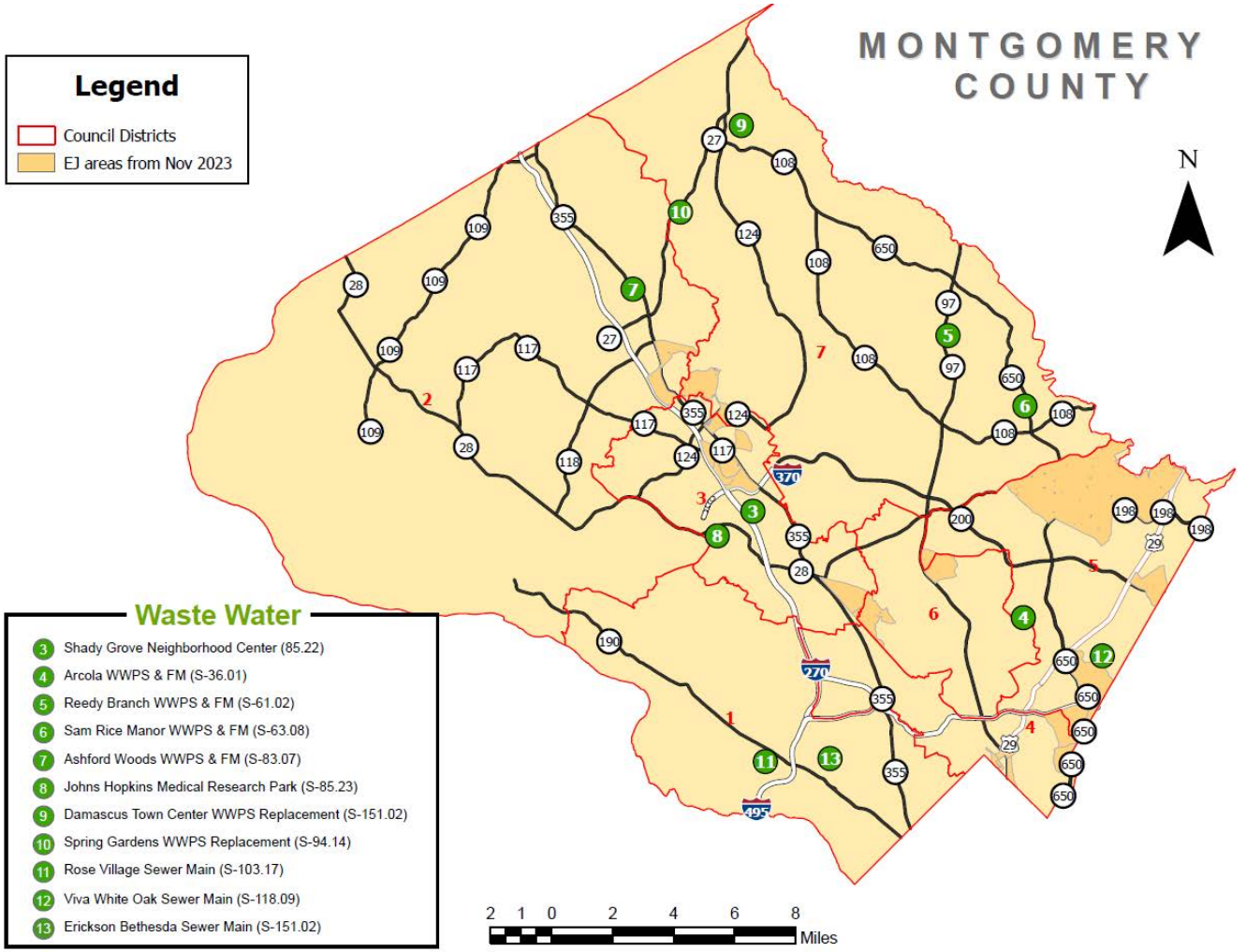
PENDING CLOSE-OUT PROJECT LISTING

MONTGOMERY COUNTY WATER PROJECTS

(ALL FIGURES IN THOUSANDS)

AGENCY NUMBER	PROJECT NAME	ESTIMATED TOTAL COST	EXPENDITURES THRU FY 24	ESTIMATED EXPENDITURES FY 25	REMARKS
W - 000046.26	Pleasant's Property Water Main Extension	-	-	-	Project expired due to 3 years of inactivity.
	TOTALS	-	-	-	

Section 2 - Montgomery County Sewer Projects



DATE: October 1, 2024

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

MONTGOMERY COUNTY SEWER PROJECTS

AGENCY NUMBER	PROJECT NAME	EST. TOTAL COST	EXPEND THRU 24	EST. EXPEND 25	TOTAL SIX YEARS	EXPENDITURE SCHEDULE						BEYOND SIX YEARS	PAGE NUM
						YEAR 1 FY26	YEAR 2 FY27	YEAR 3 FY28	YEAR 4 FY29	YEAR 5 FY30	YEAR 6 FY31		
Wastewater Collection (Sewer and Pump Stations)													
S - 000036.01	Arcola WWPS & FM	6,163	223	423	5,517	932	3,709	876	-	-	-	-	2-2
S - 000061.02	Reddy Branch WWPS & FM	13,588	112	-	9,387	275	275	330	330	4,088	4,089	4,089	2-3
S - 000063.08	Sam Rice Manor WWPS & FM	7,470	167	152	7,151	308	259	259	2,530	2,530	1,265	-	2-4
S - 000083.07	Ashford Woods WWPS & FM	3,814	282	1,396	2,136	1,257	879	-	-	-	-	-	2-5
S - 000085.22	Shady Grove Neighborhood Center	1,702	-	-	1,702	681	426	255	170	85	85	-	2-6
S - 000085.23	Johns Hopkins Medical Research Park Sewer Main	6,713	-	2,607	4,106	851	1,377	1,878	-	-	-	-	2-7
S - 000094.13	Damascus Town Center WWPS Replacement	10,133	1,181	1,977	6,975	5,725	1,250	-	-	-	-	-	2-8
S - 000094.14	Spring Gardens WWPS Replacement	10,357	1,047	510	8,800	375	375	2,683	2,683	2,684	-	-	2-9
S - 000103.17	Rose Village Sewer Main	1,885	-	63	1,822	943	565	181	133	-	-	-	2-10
S - 000118.09	Viva White Oak Sewer Main	1,738	-	-	1,738	696	434	261	174	87	86	-	2-11
S - 000151.02	Erickson Bethesda Sewer Main	3,161	275	1,032	1,854	1,171	416	267	-	-	-	-	2-12
	CATEGORY SUBTOTAL	**66,724**	**3,287**	**8,160**	**51,188**	**13,214**	**9,965**	**6,990**	**6,020**	**9,474**	**5,525**	**4,089**	
	Projects Pending Close-Out	-	-	-	-	-	-	-	-	-	-	-	
	TOTALS	**66,724**	**3,287**	**8,160**	**51,188**	**13,214**	**9,965**	**6,990**	**6,020**	**9,474**	**5,525**	**4,089**	

Arcola WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000036.01	382301	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Sligo Creek 06
Planning Areas	Kensington-Wheaton PA 31

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	1,274	223	368	683	503	109	71				
Land											
Construction	4,115			4,115	308	3,116	691				
Other	774		55	719	121	484	114				
Total	**6,163**	**223**	**423**	**5,517**	**932**	**3,709**	**876**				

C. Funding Schedule (000's)

WSSC Bonds	6,163	223	423	5,517	932	3,709	876				

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of the modifications to the Arcola Wastewater Pumping Station and replacement of the Arcola Force Main. The rehabilitation will replace both pumps, maintaining the pumping station's 0.17 MGD capacity. The existing 1,300 linear feet of 4-inch force main will be replaced. In addition, replacement of all electrical and mechanical components, piping assets, and the HVAC system are included.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life

JUSTIFICATION

The existing pumping station and force main were constructed in 1961 and have reached the end of their useful lives. Replacement of the existing force main is in accordance with an initiative to prioritize replacing force mains that have reached their anticipated life expectancy. This upgrade work was recommended as part of WSSC Water's Asset Management Program (CNPV #183).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are preliminary planning level estimates and are expected to change based upon site conditions and design constraints. Planning work for the replacement and upgrade began in FY'21 under ESP S-616.01, Arcola Force Main Replacement and WWPS Upgrade.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$345	29
Total Cost	$345	29
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	6,140
Cost Estimate Last FY	6,789
Present Cost Estimate	6,163
Approved Request Last FY	2,300
Total Expense & Encumbrances	223
Approval Request Year 1	932

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Design
Percent Complete	5 %
Estimated Completion Date	November 2027

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	0.17 MGD

H. Map

MAP NOT APPLICABLE

Reddy Branch WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000061.02	382302	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Rock Creek 05
Planning Areas	Olney & Vicinity PA 23

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	1,212	112		1,100	250	250	300	300			
Land											
Construction	11,150			7,433					3,716	3,717	3,717
Other	1,226			854	25	25	30	30	372	372	372
Total	**13,588**	**112**		**9,387**	**275**	**275**	**330**	**330**	**4,088**	**4,089**	**4,089**

C. Funding Schedule (000's)

WSSC Bonds	13,588	112		9,387	275	275	330	330	4,088	4,089	4,089

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of the modifications to the existing 3.04 MGD wastewater pumping station and replacement of approximately 12,774 feet of existing force main.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; System Reliability: This project will improve service reliability through fewer and shorter service interruptions

JUSTIFICATION

The existing pumping station and 16-inch diameter PCCP force main were built in 1971 and have reached the end of their useful lives. The station is subject to flooding and there are safety concerns with equipment operation. Replacement of the existing force main is in accordance with an initiative to prioritize replacing force mains that have reached their anticipated life expectancy. This upgrade work was recommended as part of WSSC Water's Asset Management Program (CNPV #200).

COST CHANGE

The schedule and expenditure projections were revised based upon updated engineer's estimates.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are preliminary planning level estimates and are expected to change based upon site conditions and design constraints. Planning work began in FY'21 under ESP S-611.04, Reddy Branch WWPS Upgrade. Future land costs are included in project S-203.00.

COORDINATION

Coordinating Agencies: Maryland-National Capital Park & Planning Commission; Montgomery County Government; Town of Brookeville
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$576	33
Total Cost	$576	33
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	24,614
Cost Estimate Last FY	27,488
Present Cost Estimate	13,588
Approved Request Last FY	306
Total Expense & Encumbrances	112
Approval Request Year 1	275

G. Status Information

Land Status	Land and R/W to be acquired
Project Phase	Planning
Percent Complete	5 %
Estimated Completion Date	June 2032

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	3.04 MGD

H. Map

Sam Rice Manor WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000063.08	382303	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Lower Anacostia 9
Planning Areas	Patuxent PA 15

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	1,017	167	132	718	268	225	225				
Land											
Construction	5,500			5,500				2,200	2,200	1,100	
Other	953		20	933	40	34	34	330	330	165	
Total	**7,470**	**167**	**152**	**7,151**	**308**	**259**	**259**	**2,530**	**2,530**	**1,265**	

C. Funding Schedule (000's)

WSSC Bonds	1,264	28	26	1,210	52	44	44	428	428	214	
SDC	6,206	139	126	5,941	256	215	215	2,102	2,102	1,051	

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a 0.12 MGD wastewater pumping station and 3,521 linear feet of force main. The relocated wastewater pumping station and force main will provide service to the existing and future Ashton Service Area.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand

JUSTIFICATION

The existing pumping station was originally installed in 1977 and has reached the end of its useful life. The station does not meet current standards and is in jeopardy from encroaching streambank erosion. Replacement of the existing force main is in accordance with an initiative to prioritize replacing force mains that have reached their anticipated life expectancy. This upgrade work was recommended as part of WSSC Water's Asset Management Program (CNPV #191).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are preliminary planning level estimates and are expected to change based upon site conditions and design constraints. Planning work began in FY'21 under ESP S-625.02, Sam Rice Manor WWPS Rehabilitation. Future land costs are included in project S-203.00.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$66	32
Debt Service	$74	32
Total Cost	$140	32
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	5,501
Cost Estimate Last FY	7,721
Present Cost Estimate	7,470
Approved Request Last FY	128
Total Expense & Encumbrances	167
Approval Request Year 1	308

G. Status Information

Land Status	Land and R/W to be acquired
Project Phase	Planning
Percent Complete	10 %
Estimated Completion Date	December 2030

Growth	83%
System Improvement	17%
Environmental Regulation	
Population Served	
Capacity	0.12 MGD

H. Map

MAP NOT APPLICABLE

Ashford Woods WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000083.07	382304	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Seneca Creek 15
Planning Areas	Clarksburg & Vicinity PA 13

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	843	282	342	219	110	109					
Land											
Construction	2,510		872	1,638	983	655					
Other	461		182	279	164	115					
Total	**3,814**	**282**	**1,396**	**2,136**	**1,257**	**879**					

C. Funding Schedule (000's)

Contributions/Other	3,814	282	1,396	2,136	1,257	879					

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a 0.42 MGD wastewater pumping station and 2,160 feet of force main to serve the Egan property.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Ashford Woods Hydraulic Planning Analysis (January 2021).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. Design and construction will be performed by the developer under a Systems Extension Permit. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$66	
Debt Service		
Total Cost	$66	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	3,591
Cost Estimate Last FY	3,807
Present Cost Estimate	3,814
Approved Request Last FY	1,257
Total Expense & Encumbrances	282
Approval Request Year 1	1,257

G. Status Information

Land Status	Not Applicable
Project Phase	Design
Percent Complete	80 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	1,530
Capacity	0.42 MGD

H. Map

Shady Grove Neighborhood Center

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000085.22	382102	Change

PDF Date	October 1, 2023
Date Revised	

Pressure Zones	
Drainage Basins	Watts Branch 16
Planning Areas	Gaithersburg & Vicinity PA 20

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	280			280	112	70	42	28	14	14	
Land											
Construction	1,200			1,200	480	300	180	120	60	60	
Other	222			222	89	56	33	22	11	11	
Total	**1,702**			**1,702**	**681**	**426**	**255**	**170**	**85**	**85**	

C. Funding Schedule (000's)

Contributions/Other	1,702			1,702	681	426	255	170	85	85	

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 1,800 feet of 15-inch sewer main to serve the Shady Grove Neighborhood Center Subdivision.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

The existing sewer system cannot handle the projected flows that will be generated by the Shady Grove Neighborhood Center. Shady Grove Neighborhood Center Planning Analysis (March 2019).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are actual costs incurred. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project. Project has been cancelled in accordance with developer direction.

COORDINATION

Coordinating Agencies: City of Rockville; Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$55	
Debt Service		
Total Cost	$55	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'21
Date First Approved	FY'21
Initial Cost Estimate	1,700
Cost Estimate Last FY	
Present Cost Estimate	1,702
Approved Request Last FY	
Total Expense & Encumbrances	
Approval Request Year 1	681

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	40 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	7,000
Capacity	1.40 to 2.45 MGD

H. Map

Johns Hopkins Medical Research Park Sewer Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000085.23	382401	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Muddy Branch 13
Planning Areas	Gaithersburg & Vicinity PA 20

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	972		378	594	122	200	272				
Land											
Construction	4,865		1,889	2,976	618	997	1,361				
Other	876		340	536	111	180	245				
Total	**6,713**		**2,607**	**4,106**	**851**	**1,377**	**1,878**				

C. Funding Schedule (000's)

Contributions/Other	6,713		2,607	4,106	851	1,377	1,878				

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 12,390 feet of 15-inch diameter or larger sewer mains to serve the Johns Hopkins Medical Research Park and vicinity. This work will extend service to the new development and replace existing sewer mains downstream of the development.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Johns Hopkins Medical Research Park Hydraulic Planning Analysis (February 2022).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: City of Gaithersburg; Maryland-National Capital Park & Planning Commission; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$376	
Debt Service		
Total Cost	$376	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'24
Date First Approved	FY'24
Initial Cost Estimate	6,545
Cost Estimate Last FY	6,804
Present Cost Estimate	6,713
Approved Request Last FY	852
Total Expense & Encumbrances	
Approval Request Year 1	851

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	0 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	

H. Map

Damascus Town Center WWPS Replacement

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000094.13	382002	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Patuxent North 26; Seneca Creek 15
Planning Areas	Damascus & Vicinity PA 11

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	1,651	1,111	124	416	364	52					
Land	60	60									
Construction	7,254	10	1,595	5,649	4,614	1,035					
Other	1,168		258	910	747	163					
Total	**10,133**	**1,181**	**1,977**	**6,975**	**5,725**	**1,250**					

C. Funding Schedule (000's)

WSSC Bonds	6,916	827	1,390	4,699	3,822	877					
SDC	3,217	354	587	2,276	1,903	373					

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a 0.416 MGD wastewater pumping station (WWPS), approximately 2,100 linear feet of gravity sewer, and 2,100 linear feet of force main (FM). The new WWPS and associated FM and gravity sewer will provide service to the existing and future Damascus Town Center service area.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties

JUSTIFICATION

The existing pumping station, which is over 45 years old, was originally built as a privately owned facility and does not conform to WSSC Water standards. The pumping station was taken over by WSSC Water in the late 1970s. It has reached the end of its useful life and replacement parts are obsolete. Additionally, the capacity of the pumping station must be increased to accommodate the future service area in accordance with the Maryland-National Capital Park & Planning Commission Damascus Master Plan. The pumping station replacement was recommended by the Damascus Town Center WWPS Business Case Evaluation, Black & Veatch (September 2017) undertaken as part of WSSC Water's Asset Management Program.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are preliminary design level estimates and are expected to change based upon site conditions and design constraints. Planning work began in FY'18 under ESP S-602.01, Damascus Town Center WWPS Replacement.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Environmental Protection; Montgomery County Department of Public Works and Transportation; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$107	27
Debt Service	$330	27
Total Cost	$437	27
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'20
Date First Approved	FY'20
Initial Cost Estimate	9,460
Cost Estimate Last FY	10,321
Present Cost Estimate	10,133
Approved Request Last FY	4,409
Total Expense & Encumbrances	1,181
Approval Request Year 1	5,725

G. Status Information

Land Status	Land and R/W Acquired
Project Phase	Design
Percent Complete	100 %
Estimated Completion Date	June 2026

Growth	30%
System Improvement	70%
Environmental Regulation	
Population Served	854
Capacity	0.416 MGD

H. Map

Spring Gardens WWPS Replacement

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000094.14	382003	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Monocacy 25
Planning Areas	Damascus & Vicinity PA 11

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	2,142	1,047	443	652	326	326					
Land											
Construction	7,000			7,000			2,333	2,333	2,334		
Other	1,215		67	1,148	49	49	350	350	350		
Total	**10,357**	**1,047**	**510**	**8,800**	**375**	**375**	**2,683**	**2,683**	**2,684**		

C. Funding Schedule (000's)

WSSC Bonds	3,421	347	169	2,905	125	125	885	885	885		
SDC	6,936	700	341	5,895	250	250	1,798	1,798	1,799		

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a 1.3 MGD wastewater pumping station, 7,500 linear feet of force main, and 900 linear feet of gravity sewer. The relocated wastewater pumping station and force main will provide service to the existing and future Spring Gardens service area.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties

JUSTIFICATION

The existing pumping station and force main are over 45 years old and have reached the end of their useful lives. Additionally, the existing capacity of the pumping station must be increased to accommodate build-out of the service area and therefore it must be replaced with a new facility rated at 1.3 MGD. This replacement work was recommended by various business case evaluations undertaken as part of WSSC Water's Asset Management Program.

COST CHANGE

The schedule and expenditure projections were revised based upon updated engineer's estimates.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are preliminary planning level estimates and are expected to change based upon site conditions and design constraints. Planning work began in FY'18 under ESP S-602.26, Spring Gardens WWPS Replacement. Future land costs are included in project S-203.00.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Public Works and Transportation; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$109	31
Debt Service	$178	31
Total Cost	$287	31
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'20
Date First Approved	FY'20
Initial Cost Estimate	10,180
Cost Estimate Last FY	12,424
Present Cost Estimate	10,357
Approved Request Last FY	57
Total Expense & Encumbrances	1,047
Approval Request Year 1	375

G. Status Information

Land Status	Land and R/W to be acquired
Project Phase	Planning
Percent Complete	40 %
Estimated Completion Date	June 2030

Growth	67%
System Improvement	33%
Environmental Regulation	
Population Served	
Capacity	1.3 MGD

H. Map

MAP NOT APPLICABLE

Rose Village Sewer Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000103.17	382402	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Cabin John 07
Planning Areas	Potomac-Cabin John & Vicinity PA 29

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	654		55	599	328	217	42	12			
Land											
Construction	985			985	492	274	115	104			
Other	246		8	238	123	74	24	17			
Total	**1,885**		**63**	**1,822**	**943**	**565**	**181**	**133**			

C. Funding Schedule (000's)

Contributions/Other	1,885		63	1,822	943	565	181	133			

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 1,728 feet of 30-inch to 33-inch diameter sewer main to serve the Rose Village development. These sewers will replace existing sewer mains.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Rose Village Hydraulic Planning Analysis (January 2022).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The expenditure projections are same as the last update since no inflation factors are applied for this year's update. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service		
Total Cost		
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

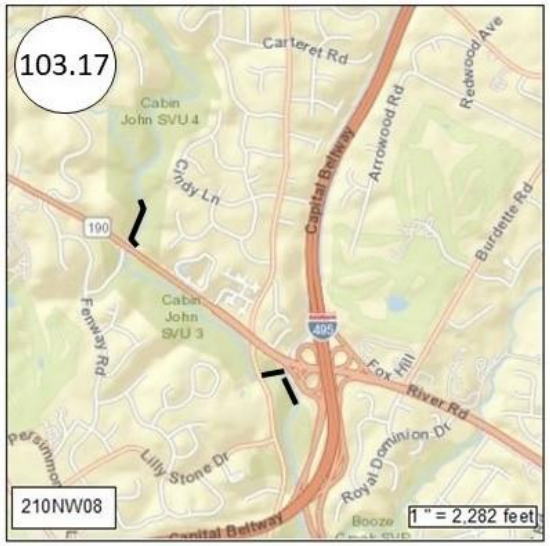
Date First in Program	FY'24
Date First Approved	FY'24
Initial Cost Estimate	1,864
Cost Estimate Last FY	1,958
Present Cost Estimate	1,885
Approved Request Last FY	943
Total Expense & Encumbrances	
Approval Request Year 1	943

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	0 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	50,915
Capacity	

H. Map



Viva White Oak Sewer Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000118.09	382203	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Paint Branch 2
Planning Areas	Colesville-White Oak & Vicinity PA 33; Fairland (MC) PA 34

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	347			347	139	86	52	35	18	17	
Land											
Construction	1,164			1,164	466	291	175	116	58	58	
Other	227			227	91	57	34	23	11	11	
Total	**1,738**			**1,738**	**696**	**434**	**261**	**174**	**87**	**86**	

C. Funding Schedule (000's)

Contributions/Other	1,738			1,738	696	434	261	174	87	86	

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 4,175 feet of 15-inch to 24-inch diameter sewer main to serve Viva White Oak and vicinity.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Viva White Oak Hydraulic Planning Analysis (July 2019) amended on 8/16/2022.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Environmental Protection; Montgomery County Government
Coordinating Projects: S - 000118.10 - Viva White Oak Sewer Augmentation; W - 000113.21 - Viva White Oak Water Main

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$127	
Debt Service		
Total Cost	$127	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'22
Date First Approved	FY'22
Initial Cost Estimate	1,500
Cost Estimate Last FY	1,738
Present Cost Estimate	1,738
Approved Request Last FY	696
Total Expense & Encumbrances	
Approval Request Year 1	696

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	10 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	4.62 MGD

H. Map

Erickson Bethesda Sewer Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000151.02	382305	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Cabin John 07
Planning Areas	North Bethesda PA 30

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	476	275	87	114	88	26					
Land											
Construction	2,308		810	1,498	930	336	232				
Other	377		135	242	153	54	35				
Total	**3,161**	**275**	**1,032**	**1,854**	**1,171**	**416**	**267**				

C. Funding Schedule (000's)

Contributions/Other	3,161	275	1,032	1,854	1,171	416	267				

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 3,600 feet of 15-inch to 18-inch diameter sanitary sewer adjacent to the new development and 330 feet of 36-inch diameter sanitary sewer south of River Road to serve the Erickson Bethesda development.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Erickson Bethesda Hydraulic Planning Analysis (March 2021).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$119	
Debt Service		
Total Cost	$119	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	2,740
Cost Estimate Last FY	3,131
Present Cost Estimate	3,161
Approved Request Last FY	1,032
Total Expense & Encumbrances	275
Approval Request Year 1	1,171

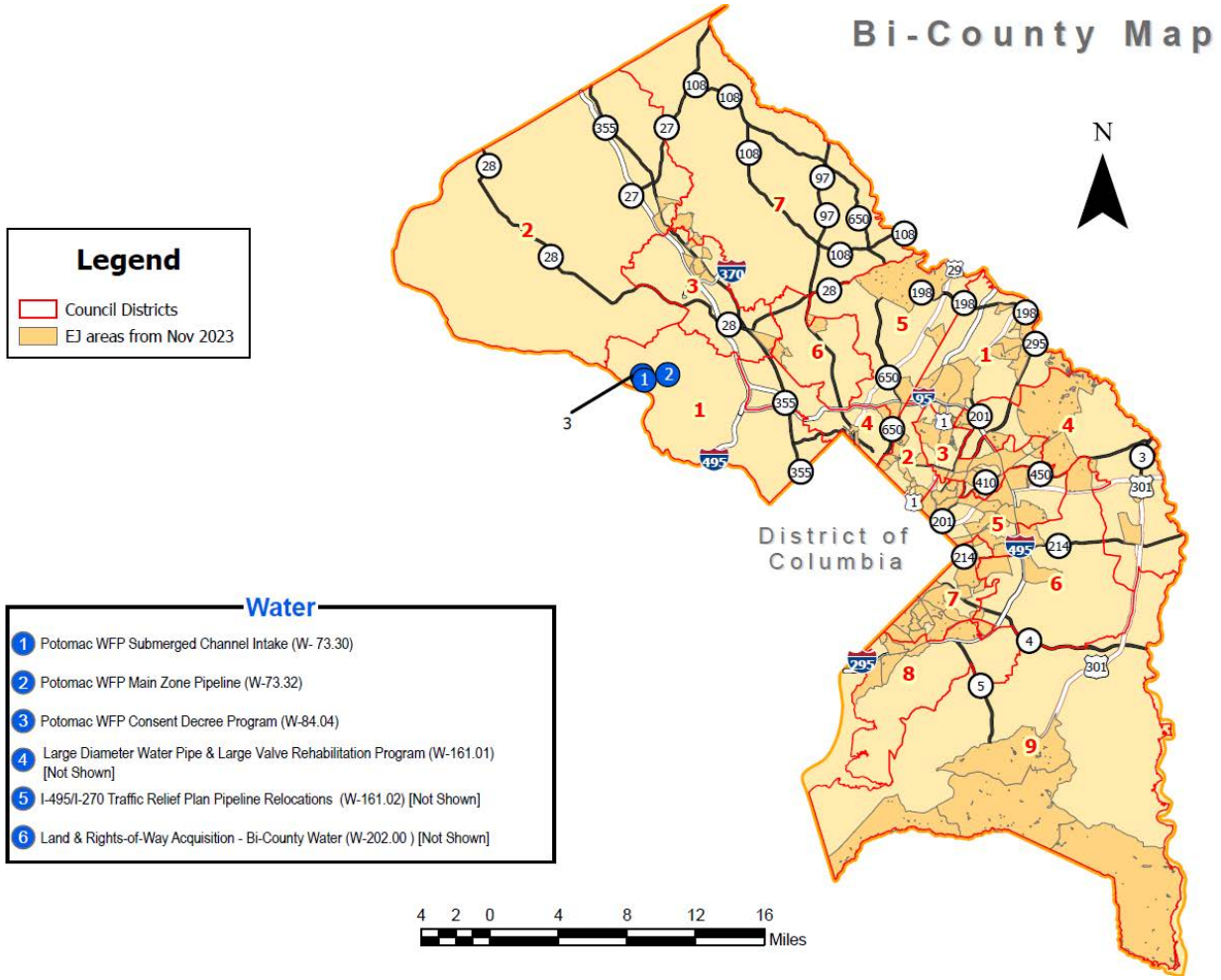
G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	80 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	24,000
Capacity	

H. Map

Section 3 - Bi-County Water Projects



DATE: October 1, 2024

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

BI-COUNTY WATER PROJECTS

AGENCY NUMBER	PROJECT NAME	EST. TOTAL COST	EXPEND THRU 24	EST. EXPEND 25	TOTAL SIX YEARS	EXPENDITURE SCHEDULE						BEYOND SIX YEARS	PAGE NUM
						YEAR 1 FY26	YEAR 2 FY27	YEAR 3 FY28	YEAR 4 FY29	YEAR 5 FY30	YEAR 6 FY31		
Water Treatment and Storage (WFPs, Reservoirs, Water Tanks)													
W - 000073.30	Potomac WFP Submerged Channel Intake	104,667	2,267	420	31,700	420	840	840	1,050	1,050	27,500	70,280	3-3
W - 000073.32	Potomac WFP Main Zone Pipeline	117,497	1,997	2,184	113,316	2,085	2,174	19,236	35,836	35,836	18,149	-	3-4
W - 000073.33	Potomac WFP Consent Decree Program	218,954	126,930	53,307	38,717	38,717	-	-	-	-	-	-	3-6
	CATEGORY SUBTOTAL	**441,118**	**131,194**	**55,911**	**183,733**	**41,222**	**3,014**	**20,076**	**36,886**	**36,886**	**45,649**	**70,280**	
Water Distribution (Water Mains and Pump Stations)													
W - 000161.01	Large Diameter Water Pipe & Large Valve Rehabilitation Prog	480,185	-	63,590	416,595	54,595	60,000	66,000	72,000	80,000	84,000	-	3-7
	CATEGORY SUBTOTAL	**480,185**	**-**	**63,590**	**416,595**	**54,595**	**60,000**	**66,000**	**72,000**	**80,000**	**84,000**	**-**	
Mixed-use (ESP, Other Capital Programs, Land, Beltway)													
W - 000161.02	I-495/I-270 Traffic Relief Plan Pipeline Relocations	210,331	585	74	209,672	21,326	62,905	62,764	41,800	20,877	-	-	3-9
W - 000202.00	Land & Rights-of-Way Acquisition - Bi-County Water	9,030	-	1,955	7,075	1,000	1,695	1,095	1,095	1,095	1,095	-	3-10
	CATEGORY SUBTOTAL	**219,361**	**585**	**2,029**	**216,747**	**22,326**	**64,600**	**63,859**	**42,895**	**21,972**	**1,095**	**-**	
	Projects Pending Close-Out	-	-	-	-	-	-	-	-	-	-	-	
	TOTALS	**1,140,664**	**131,779**	**121,530**	**817,075**	**118,143**	**127,614**	**149,935**	**151,781**	**138,858**	**130,744**	**70,280**	

POTOMAC WATER FILTRATION PLANT PROJECTS

(COSTS IN THOUSANDS)

AGENCY NUMBER	PROJECT NAME	ADOPTED FY'25 TOTAL COST	PROPOSED FY'26 TOTAL COST	CHANGE $	CHANGE %	SIX-YEAR COST	COMPLETION DATE (est)
W-73.30	Potomac WFP Submerged Channel Intake	102,215	104,667	2,452	2.4%	31,700	TBD
W-73.32	Potomac WFP Main Zone Pipeline	121,388	117,497	(3,891)	-3.2%	113,316	December 2029
W-73.33	Potomac WFP Consent Decree Program	206,212	218,954	12,742	6.2%	38,717	June 2026
	TOTALS	**$429,815**	**$441,118**	**$11,303**	**2.6%**	**$183,733**	

Summary: This group of projects represents operational improvements to the Potomac Water Filtration Plant (WFP) in Montgomery County. The Potomac WFP Submerged Channel Intake project (W-73.30) will provide an additional barrier against drinking water contamination, enhance reliability, and reduce treatment costs by drawing water from a location with a cleaner, more stable water quality. The Potomac WFP Main Zone Pipeline project (W-73.32) provides an 84-inch diameter redundancy main from the Main Zone pumping station to the 96-inch diameter and 66-inch diameter main wye connections on River Road, upgrades to the High Zone pumping station, and replacement of the existing 78-inch and 48-inch PCCP discharge mains. The Potomac WFP Consent Decree Program project (W-73.33) provides for the planning, design, and construction required for the implementation of Short-Term Operational and Long-Term Capital Improvements at the Potomac Water Filtration Plant (WFP) to allow WSSC Water to meet the new discharge limitations identified in the Consent Decree.

Cost Impact: Due to budgetary constraints, the Potomac WFP Submerged Channel Intake project (W-73.30) has been deferred to beyond six years. Expenditure projections for the Potomac WFP Main Zone Pipeline (W-73.32) were increased to reflect inflation. Estimates for the Potomac WFP Consent Decree Program (W-73.33) were updated to reflect actual bids.

Potomac WFP Submerged Channel Intake

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000073.30	033812	Change

PDF Date	October 1, 2024
Date Revised	March 1, 2024

Pressure Zones	Potomac WFP HGPOWF
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	10,663	2,164	400	5,199	399	800	800	1,000	1,000	1,200	2,900
Land											
Construction	89,103	103		25,000						25,000	64,000
Other	4,901		20	1,501	21	40	40	50	50	1,300	3,380
Total	**104,667**	**2,267**	**420**	**31,700**	**420**	**840**	**840**	**1,050**	**1,050**	**27,500**	**70,280**

C. Funding Schedule (000's)

WSSC Bonds	104,667	2,267	420	31,700	420	840	840	1,050	1,050	27,500	70,280

D. Description & Justification

DESCRIPTION

This project includes planning, which involves community outreach and coordination with elected officials, design, and construction of a submerged channel intake to provide an additional barrier against drinking water contamination (particularly Giardia cysts and Cryptosporidium oocysts), as well as to enhance reliability and reduce treatment costs by drawing water from a location with cleaner, more stable water quality.

BENEFIT

Water Quality: This project supports WSSC Water's mission to provide safe, clean water by improving the quality and/or safety of drinking water; System Reliability: This project will improve service reliability through fewer and shorter service interruptions; Financial Efficiency: This project is expected to increase revenues, decrease expenses, or both

JUSTIFICATION

The project provides for a more reliable supply by eliminating the current problems associated with ice and vegetation blocking the existing bank withdrawal. This project is consistent with the industry's recommended multiple barrier approach.

Technical Memorandum No. 2 Water Quality Needs Assessment, O'Brien & Gere Engineers, Inc. (November 2001); Draft Source Water Assessment Study, Maryland Department of the Environment (April 2003); Potomac WFP Facility Plan, O'Brien & Gere Engineers, Inc. (September 2002); Draft Feasibility Study Report, Black & Veatch (November 2013).

COST CHANGE

Cost increase due to inflation.

OTHER

The project scope has remained the same. Significant outreach activities occurred as part of the planning phase of this project. The National Environmental Policy Act (NEPA) process was concluded in January 2018 when the National Park Service (NPS) approved the Environmental Assessment and transmitted its record of decision and the Finding of No Significant Impact. Future land costs are included in project W-202.00. Both Councils will review the results of the planning work and the updated costs and benefits of the project and must approve continuing the project before design and construction proceed.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Environmental Protection; Montgomery County Government; National Park Service; Prince George's County Department of Environmental Resources; Prince George's County Government; U.S. Army Corps of Engineers
Coordinating Projects: W - 000073.33 - Potomac WFP Consent Decree Program

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$1,972	34
Total Cost	$1,972	34
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'04
Date First Approved	FY'03
Initial Cost Estimate	936
Cost Estimate Last FY	102,215
Present Cost Estimate	104,667
Approved Request Last FY	840
Total Expense & Encumbrances	2,267
Approval Request Year 1	420

G. Status Information

Land Status	Land and R/W to be acquired
Project Phase	Planning
Percent Complete	100 %
Estimated Completion Date	April 2033

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT AVAILABLE

Potomac WFP Main Zone Pipeline

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000073.32	133800	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Montgomery Main 495A; Prince George's High HG450A;
Drainage Basins	
Planning Areas	Potomac-Cabin John & Vicinity PA 29

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	17,447	1,997	2,080	13,370	1,985	2,070	3,105	2,070	2,070	2,070	
Land											
Construction	94,548			94,548			15,215	32,059	32,059	15,215	
Other	5,502		104	5,398	100	104	916	1,707	1,707	864	
Total	**117,497**	**1,997**	**2,184**	**113,316**	**2,085**	**2,174**	**19,236**	**35,836**	**35,836**	**18,149**	

C. Funding Schedule (000's)

WSSC Bonds	48,121	819	895	46,407	802	891	7,887	14,693	14,693	7,441	
SDC	69,376	1,178	1,289	66,909	1,283	1,283	11,349	21,143	21,143	10,708	

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of redundant finished water discharge mains, water pumping station upgrades, and other process improvements at the Potomac Water Filtration Plant (WFP) to ensure a safe and reliable water supply. This work includes the following: two new 54-inch discharge pipes from the Main Zone and High Zone pumping stations that will feed into a new 84-inch discharge main that runs to the 96-inch and 66-inch main wye connections on River Road; the addition of two new pumps in the High Zone pumping station to serve the Main Zone; a new 66-inch suction pipe to serve the new pumps in the High Zone pumping station; other modifications to the High Zone pumping station, including surge protection modifications and electrical upgrades; and replacement of the existing 78-inch and 48-inch PCCP discharge mains, which are nearing the end of their useful lives, after the new 84-inch redundant discharge main is in place.

BENEFIT

System Reliability: This project will improve service reliability through fewer and shorter service interruptions; Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life

JUSTIFICATION

The primary purpose of this project is to provide redundancy to facilitate extended shutdowns for periodic maintenance, inspections, and repairs and to mitigate the risk to plant operations due to failure of any one of the finished water mains. The existing 78-inch PCCP main, which was installed in 1967, is the primary feed to the 96-inch Montgomery County Main Zone pipeline and the 66-inch River Road pipeline. The existing 48-inch PCCP main, which was installed in 1962, serves as only a partial backup to the 78-inch line, since it is not adequately sized to meet the current summer season demands. Furthermore, the existing mains are nearing the end of their useful lives and the 78-inch main alone cannot meet the projected 2040 maximum day demands of 210 MGD. The 78-inch main and the 48-inch main together could convey 210 MGD; however, relying on both pipes to meet future demands would decrease the redundancy and reliability of WSSC Water's system. The redundancy, process improvement, and rehabilitation/replacement work recommended by the Potomac WFP Main Zone Redundancy Business Case Evaluation (CDM Smith, October 2021), undertaken as part of WSSC Water's Asset Management Program, provides value to the customer by minimizing the risk of failure and ensuring a safe and reliable supply of up to 210 MGD of water in order to meet the current and future needs of the WSSD.

COST CHANGE

The schedule and expenditure projections were revised based upon updated engineer's estimates.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are order of magnitude estimates and are expected to change based upon site conditions and design constraints. The schedule may change with the construction of the 78-inch and 48-inch replacement pipes after FY'31, once the 84-inch discharge main is in place.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Public Works and Transportation; Montgomery County

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$31	32
Debt Service	$2,854	32
Total Cost	$2,885	32
Impact on Water and Sewer Rate	$0.01	32

F. Approval and Expenditure Data (000's)

Date First in Program	FY'13
Date First Approved	FY'13
Initial Cost Estimate	330
Cost Estimate Last FY	121,388
Present Cost Estimate	117,497
Approved Request Last FY	4,741
Total Expense & Encumbrances	1,997
Approval Request Year 1	2,085

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Planning
Percent Complete	100 %
Estimated Completion Date	June 2031

Growth	59%
System Improvement	41%
Environmental Regulation	
Population Served	
Capacity	210 MGD

H. Map

MAP NOT AVAILABLE

Government; U.S. Army Corps of Engineers
Coordinating Projects: W - 000073.33 - Potomac WFP Consent Decree Program

Potomac WFP Consent Decree Program

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000073.33	173801	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Potomac WFP HGPOWF
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	23,521	20,398	1,716	1,407	1,407						
Land	1,000	1,000									
Construction	190,051	105,532	49,053	35,466	35,466						
Other	4,382		2,538	1,844	1,844						
Total	**218,954**	**126,930**	**53,307**	**38,717**	**38,717**						

C. Funding Schedule (000's)

WSSC Bonds	218,954	126,930	53,307	38,717	38,717						

D. Description & Justification

DESCRIPTION

The Potomac WFP Consent Decree Program provides for the planning, design, and construction required for the implementation of Short-Term Operational and Long-Term Capital Improvements at the Potomac Water Filtration Plant (WFP) to allow WSSC Water to meet the new discharge limitations identified in the Consent Decree.

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties

JUSTIFICATION

The Consent Decree (CD) was Entered by the U.S. District Court of Maryland on April 15, 2016. Under the terms of the CD WSSC Water is required to "undertake short-term operational changes and capital improvements at the Potomac WFP that will enable WSSC Water to reduce significantly the pounds per day of solids discharged to the River" (CD Section II. Paragraph 6.i); and to plan, design, and implement long-term "upgrades to the existing Plant or to design and construct a new plant to achieve the effluent limits, conditions, and waste load allocations established by the Maryland Department of the Environment (the Department) and/or in this Consent Decree, and incorporated in a new discharge permit to be issued by the Department" (CD Section II. Paragraph 6.ii). The CD required WSSC Water to submit a Draft Audit Report and Draft Long-Term Upgrade Plan to the Citizens and the Department by November 15, 2016, and final reports to the Citizens and the Department by January 1, 2017. The Final Audit and Long-Term Upgrade Plan Reports were submitted to the Citizens and the Department on December 29, 2016. The Department reviews the Audit Report and selects recommended improvements in operations, monitoring, and waste tracking, along with select capital projects that can be completed no later than April 1, 2020 and that are necessary to achieve the goals identified in CD Section IV. Paragraph 24. Additionally, the work required to implement the Long-Term Capital Improvements Project(s) shall be fully implemented in accordance with the schedule set forth in the Long-Term Upgrade Plan. WSSC Water shall be subject to a lump-sum stipulated penalty in accordance with the CD for failure to implement the Long-Term Capital Improvement Project(s) by January 1, 2026.

COST CHANGE

The schedule and expenditure projections were revised based upon actual bids. An additional project to refurbish the sedimentation basins and filter booths in the amount of $1,750,000 was added to the program.

OTHER

The schedule and expenditure projections shown in Block B above are based on actual bids and include $1,000,000 for Supplemental Environmental Projects included under CD Section IX. Paragraph 50. WSSC Water Green Bonds will be utilized to fund a portion of this project. The reduction in suspended solids discharged into the Potomac River will address the following International Capital Market Association (ICMA) Green Bond Principles 2016 categories: Pollution prevention/control; and Terrestrial and aquatic biodiversity conservation.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Montgomery County Government; National Park Service; Prince George's County Government; U.S. Environmental Protection Agency, Region III
Coordinating Projects: W - 000073.30 - Potomac WFP Submerged Channel Intake; W - 000073.32 - Potomac WFP Main Zone Pipeline

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$2,502	27
Total Cost	$2,502	27
Impact on Water and Sewer Rate	$0.01	27

F. Approval and Expenditure Data (000's)

Date First in Program	FY'17
Date First Approved	FY'16
Initial Cost Estimate	27,250
Cost Estimate Last FY	206,212
Present Cost Estimate	218,954
Approved Request Last FY	55,914
Total Expense & Encumbrances	126,930
Approval Request Year 1	38,717

G. Status Information

Land Status	Land Acquired
Project Phase	Construction
Percent Complete	57 %
Estimated Completion Date	June 2026

Growth	
System Improvement	
Environmental Regulation	100%
Population Served	
Capacity	

H. Map

MAP NOT AVAILABLE

Large Diameter Water Pipe & Large Valve Rehabilitation Program

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000161.01	113803	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	51,229		4,748	46,481	5,554	6,675	7,991	8,520	8,818	8,923	
Land											
Construction	374,822		53,061	321,761	43,054	46,655	49,962	54,507	61,893	65,690	
Other	54,134		5,781	48,353	5,987	6,670	8,047	8,973	9,289	9,387	
Total	**480,185**		**63,590**	**416,595**	**54,595**	**60,000**	**66,000**	**72,000**	**80,000**	**84,000**	

C. Funding Schedule (000's)

WSSC Bonds	480,185		63,590	416,595	54,595	60,000	66,000	72,000	80,000	84,000	

D. Description & Justification

DESCRIPTION

The purpose of this program is to plan, inspect, design, and rehabilitate or replace large diameter water transmission mains and large system valves that have reached the end of their useful life. Condition assessment and/or corrosion monitoring is performed on metallic pipelines, including ductile iron, cast iron, and steel, to identify lengths of pipe requiring replacement or rehabilitation and cathodic protection. The PCCP Inspection and Condition Assessment and Monitoring Program identifies individual pipe segments that require repair or replacement to assure the continued safe and reliable operation of the pipeline. The program also identifies extended lengths of pipe that require the replacement of an increased number of pipe segments in varying stages of deterioration that are most cost effectively accomplished by the replacement or rehabilitation of long segments of the pipeline or the entire pipeline. Rehabilitation or replacement of these mains provides value to the customer by minimizing the risk of failure and ensuring a safe and reliable water supply. The program includes installation of Acoustic Fiber Optic Monitoring equipment in order to accomplish these goals in PCCP mains.

*EXPENDITURES FOR LARGE DIAMETER WATER PIPE REHABILITATION ARE EXPECTED TO CONTINUE INDEFINITELY.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; System Reliability: This project will improve service reliability through fewer and shorter service interruptions; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties

JUSTIFICATION

WSSC Water has approximately 867 miles of large diameter water main ranging from 16-inches to 96-inches in diameter. This includes 193 miles of cast iron, 297 miles of ductile iron, 40 miles of steel, and 326 miles of PCCP. Internal inspection and condition assessment is performed on PCCP pipelines 36-inches and larger in diameter. Of the 326 miles of PCCP, 133 miles are 36-inch diameter and larger. The inspection program includes internal visual and sounding, sonic/ultrasonic testing, and electromagnetic testing to establish the condition of each pipe section and determine if maintenance repairs, rehabilitation, or replacement are needed.

The planning and design phase evaluates the alignment, hydraulic capacity, and project coordination, among other factors, in an effort to re-engineer these pipelines to meet today's design standards. The design effort includes the preparation of bid ready contract documents including all needed rights-of-way acquisitions and regulatory permits. The constructed system is inspected and an as-built plan is produced to serve as the renewed asset record.

In July 2013, WSSC Water's Acoustic Fiber Optic monitoring system identified breaking wires in a 54-inch diameter PCCP water transmission main in the Forestville area of Prince George's County. Upon attempting to close nearby valves to isolate the failing pipe for repair, WSSC Water crews encountered an inoperable valve with a broken gear, requiring the crew to drop back to the next available valve. This dropping-back to another valve would block one of the major water mains serving Prince George's County, significantly enlarging the shutdown area and reduce our capacity to supply water to over 100,000 residents. In order to minimize the risk associated with inoperable large valves and possible water outages, the large valve inspection and repair program was initiated to systematically inspect, exercise, repair, or replace any of the nearly 1,500 large diameter valves and vaults located throughout the system.

Utility Wide Master Plan (December 2007); 30 Year Infrastructure Plan (2007); FY'25 Water Network Asset Management Plan (May 2023).

COST CHANGE

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$32,654	
Total Cost	$32,654	
Impact on Water and Sewer Rate	$0.07	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'11
Date First Approved	FY'11
Initial Cost Estimate	
Cost Estimate Last FY	630,569
Present Cost Estimate	480,185
Approved Request Last FY	72,997
Total Expense & Encumbrances	
Approval Request Year 1	54,595

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT AVAILABLE

Program costs reflect the latest schedule and expenditure estimates based upon the recommendations from the Buried Water Assets System Asset Management Plan.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are order of magnitude estimates and are expected to change based upon the results of the on-going inspections and condition assessments. Additional costs associated with PCCP inspection/condition assessment, large valve inspection/repairs, and emergency repairs are included in the Operating Budget. WSSC Water Green Bonds will be utilized to fund a portion of this project. The annual replacement work for large diameter water mains will address the following International Capital Market Association (ICMA) Green Bond Principles 2016 category: Sustainable water management.

COORDINATION

Coordinating Agencies: Local Community Civic Associations; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Public Works and Transportation; Montgomery County Government;(including localities where work is to be performed); Prince George's County Government;(including localities where work is to be performed); Prince George's County Department of Permitting Inspection and Enforcement
Coordinating Projects: W - 000001.00 - Water Reconstruction Program; W - 000107.00 - Specialty Valve Vault Rehabilitation Program

I-495/I-270 Traffic Relief Plan Pipeline Relocations

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000161.02	382306	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Cabin John 350A; Falls Road 552A; Montgomery High
Drainage Basins	Cabin John 07; Muddy Branch 13; Rock Run 1; Watts Branch
Planning Areas	Gaithersburg & Vicinity PA 20; Potomac-Cabin John & Vicinity

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	27,435	572	71	26,792	3,023	8,038	7,909	5,230	2,592		
Land											
Construction	172,907	13		172,894	17,287	51,871	51,866	34,580	17,290		
Other	9,989		3	9,986	1,016	2,996	2,989	1,990	995		
Total	**210,331**	**585**	**74**	**209,672**	**21,326**	**62,905**	**62,764**	**41,800**	**20,877**		

C. Funding Schedule (000's)

State Aid	210,331	585	74	209,672	21,326	62,905	62,764	41,800	20,877		

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of water and sewer pipe relocations necessitated by the State of Maryland's plans to expand I-495 and I-270.

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees

JUSTIFICATION

In September 2017, the Maryland Department of Transportation (MDOT) State Highway Administration (SHA) announced a proposed highway improvement project to widen I-495 and I-270 in Montgomery and Prince George's Counties. January 2020, the Maryland Board of Public Works set a condition that the process start with Phase 1 of the project, which focuses on I-495 from the George Washington Memorial Parkway in Virginia to I-270 in Maryland and on I-270 from I-495 to I-70. February 2020, MDOT SHA issued a request for qualifications for preliminary development activities for Phase 1. July 2020, the Federal Highway Administration (FHWA) and MDOT SHA completed the draft environmental impact statement (DEIS). December 2020, a request for proposals was issued by MDOT and the Maryland Transportation Authority (MDTA) for a Phase 1 developer. January 2021, MDOT SHA recommended that Alternative 9 be identified as the preferred alternative in the DEIS. February 2021, MDOT and MDTA announced the selection of Accelerate Maryland Partners, LLC to lead the predevelopment work on Phase 1. May 2021, Alternative 9: Phase 1 South was announced as the new recommended preferred alternative by FHWA and MDOT SHA. This alternative focuses on adding two high occupancy toll (HOT) managed lanes in each direction for I-495 from the George Washington Memorial Parkway in Virginia to east of MD 187 in Maryland, for I-270 from I-495 to I-370, and on the I-270 eastern spur from east of MD 187 to I-270. This alternative includes the construction of a new American Legion Bridge.

The preliminary plans indicate that the proposed MDOT SHA project will impact water and sewer assets owned by WSSC Water that are located in the I-495 and I-270 corridors within the WSSD. The impacted pipes range from 6 to 96-inches in diameter. WSSC Water has an existing memorandum of understanding (MOU) agreement with MDOT SHA to review and coordinate potential impacts to existing WSSC Water infrastructure to accommodate MDOT SHA highway improvement projects. Negotiations on a Framework Agreement to ensure this project poses no financial impact to ratepayers are underway.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are order of magnitude estimates based upon Alternative 9: Phase 1 South and are expected to change based upon site conditions and design constraints. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland State Department of Transportation; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Government; Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service		
Total Cost		
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	182,600
Cost Estimate Last FY	203,328
Present Cost Estimate	210,331
Approved Request Last FY	20,605
Total Expense & Encumbrances	585
Approval Request Year 1	21,326

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	30 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

Land & Rights-of-Way Acquisition - Bi-County Water

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000202.00	983857	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land	9,030		1,955	7,075	1,000	1,695	1,095	1,095	1,095	1,095	
Construction											
Other											
Total	**9,030**		**1,955**	**7,075**	**1,000**	**1,695**	**1,095**	**1,095**	**1,095**	**1,095**	

C. Funding Schedule (000's)

WSSC Bonds	8,996		1,921	7,075	1,000	1,695	1,095	1,095	1,095	1,095	
SDC	34		34								

D. Description & Justification

DESCRIPTION

This project provides a consolidated estimate of funding for the acquisition of land and rights-of-way for water projects and programs and for easement and land acquisitions for watershed protection. Expenditures are programmed based upon anticipated schedules and are required for the completion of those specific projects. These costs do not include purchases which have already been completed.

BENEFIT

Financial Efficiency: This project is expected to increase revenues, decrease expenses, or both

JUSTIFICATION

Consolidation of expenditures for land and rights-of-way acquisitions provides flexibility in expending funds in a specific fiscal year and permits WSSC Water to respond to the uncertainty of project-specific implementation schedules. Other considerations include the accommodation of unpredictable delays which impact the timing of a planned purchase, unanticipated rights-of-way requirements due to minor alignment changes identified late in the design phase, and the need to assure WSSC Water an equitable negotiation position by avoiding project-specific cost displays prior to contacting property owners.

Acquisition needs are determined by WSSC Water and are based upon facility planning efforts, alignment studies, field surveys, realignments required by other agencies, or requirements identified within the Development Services Process.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are estimates only and may change based upon actual negotiations. When purchases are complete, the actual cost will be displayed in the expenditure schedule on the appropriate project.

COORDINATION

Coordinating Agencies: Not Applicable
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$440	
Total Cost	$440	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'98
Date First Approved	FY'98
Initial Cost Estimate	
Cost Estimate Last FY	8,815
Present Cost Estimate	9,030
Approved Request Last FY	1,095
Total Expense & Encumbrances	
Approval Request Year 1	1,000

G. Status Information

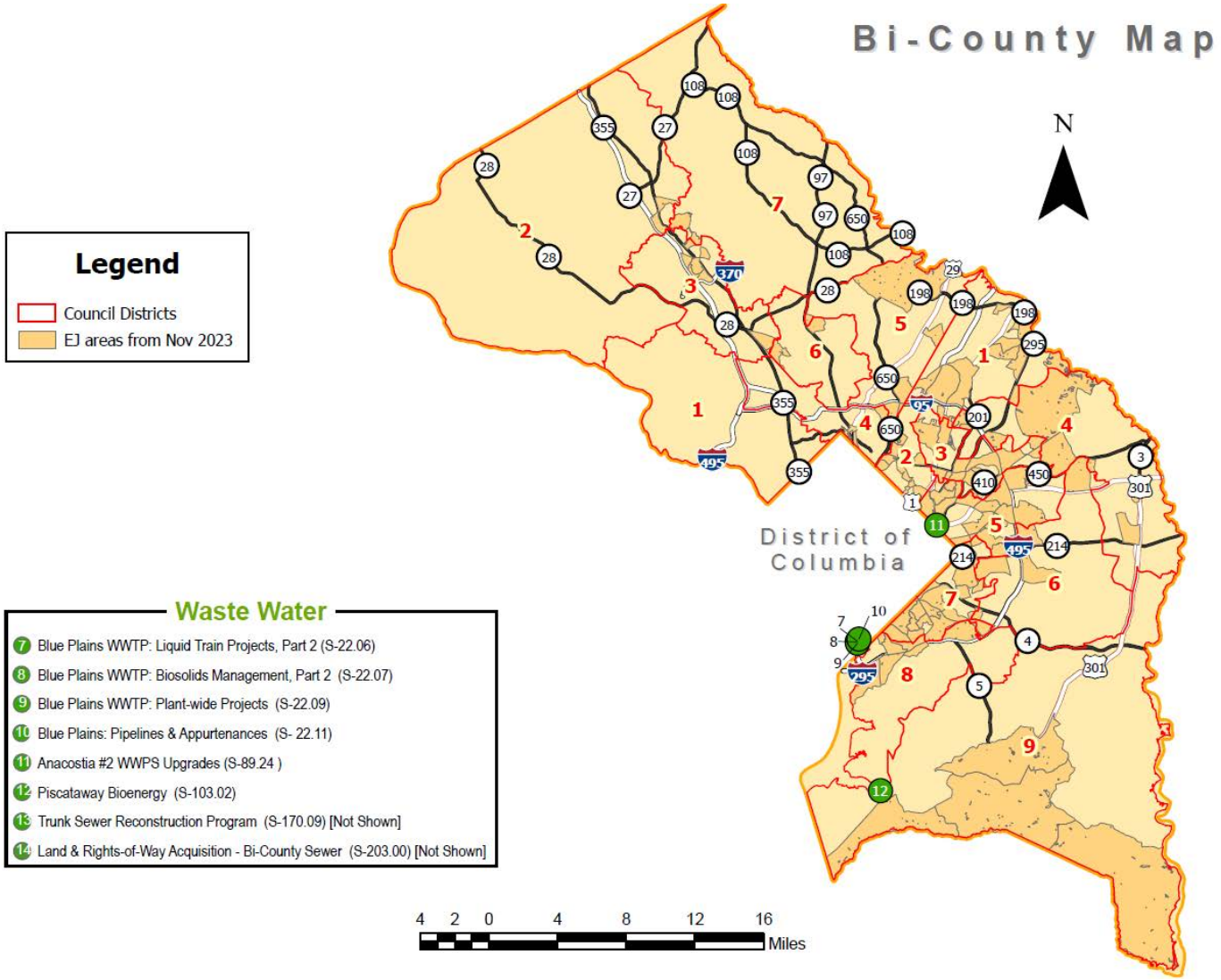
Land Status	Land and R/W to be acquired
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	Not Applicable

Growth	
System Improvement	23%
Environmental Regulation	77%
Population Served	
Capacity	

H. Map

MAP NOT AVAILABLE

Section 4 - Bi-County Sewer Projects



DATE: October 1, 2024

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

BI-COUNTY SEWER PROJECTS

AGENCY NUMBER	PROJECT NAME	EST. TOTAL COST	EXPEND THRU 24	EST. EXPEND 25	TOTAL SIX YEARS	EXPENDITURE SCHEDULE						BEYOND SIX YEARS	PAGE NUM
						YEAR 1 FY26	YEAR 2 FY27	YEAR 3 FY28	YEAR 4 FY29	YEAR 5 FY30	YEAR 6 FY31		
Wastewater Collection (Sewer and Pump Stations)													
S - 000089.24	Anacostia #2 WWPS Upgrades	84,700	8,371	3,980	72,349	31,069	33,707	7,509	64	-	-	-	4-7
S - 000170.09	Trunk Sewer Reconstruction Program	231,909	-	40,672	191,237	41,879	35,905	29,734	27,788	27,484	28,447	-	4-10
	CATEGORY SUBTOTAL	**316,609**	**8,371**	**44,652**	**263,586**	**72,948**	**69,612**	**37,243**	**27,852**	**27,484**	**28,447**	**-**	
Interjurisdictional Agreements (Blue Plains, Mattawoman)													
S - 000022.06	Blue Plains WWTP: Liquid Train Projects, Part 2	360,982	-	18,447	283,075	27,075	40,755	43,693	56,237	59,020	56,295	59,460	4-3
S - 000022.07	Blue Plains WWTP: Biosolids Management, Part 2	110,536	-	13,663	80,218	11,567	5,146	13,897	15,068	16,345	18,195	16,655	4-4
S - 000022.09	Blue Plains WWTP: Plant-wide Projects	124,362	-	15,933	105,262	17,458	23,549	20,905	21,512	12,967	8,871	3,167	4-5
S - 000022.11	Blue Plains: Pipelines & Appurtenances	254,570	-	15,943	218,922	16,862	29,388	46,517	44,756	41,171	40,228	19,705	4-6
	CATEGORY SUBTOTAL	**850,450**	**-**	**63,986**	**687,477**	**72,962**	**98,838**	**125,012**	**137,573**	**129,503**	**123,589**	**98,987**	
Innovation and Investment Priorities (Water Supply, Meters, Climate Action)													
S - 000103.02	Piscataway Bioenergy	333,309	318,412	14,301	596	596	-	-	-	-	-	-	4-8
	CATEGORY SUBTOTAL	**333,309**	**318,412**	**14,301**	**596**	**596**	**-**	**-**	**-**	**-**	**-**	**-**	
Mixed-use (ESP, Other Capital Programs, Land, Beltway)													
S - 000203.00	Land & Rights-of-Way Acquisition - Bi-County Sewer	1,673	-	400	1,273	298	195	195	195	195	195	-	4-12
	CATEGORY SUBTOTAL	**1,673**	**-**	**400**	**1,273**	**298**	**195**	**195**	**195**	**195**	**195**	**-**	
	Projects Pending Close-Out	-	-	-	-	-	-	-	-	-	-	-	
	TOTALS	**1,502,041**	**326,783**	**123,339**	**952,932**	**146,804**	**168,645**	**162,450**	**165,620**	**157,182**	**152,231**	**98,987**	

BLUE PLAINS WASTEWATER TREATMENT PLANT PROJECTS

(COSTS IN THOUSANDS)

AGENCY NUMBER	PROJECT NAME	ADOPTED FY'25 TOTAL COST	PROPOSED FY'26 TOTAL COST	CHANGE $	CHANGE %	SIX-YEAR COST	COMPLETION DATE (est)
S-22.06	Blue Plains WWTP: Liquid Train Projects, Part 2	$387,893	$360,982	($26,911)	-6.9%	$283,075	On-Going
S-22.07	Blue Plains WWTP: Biosolids Management, Part 2	127,386	110,536	(16,850)	-13.2%	80,218	On-Going
S-22.09	Blue Plains WWTP: Plant-wide Projects	141,582	124,362	(17,220)	-12.2%	105,262	On-Going
S-22.11	Blue Plains: Pipelines & Appurtenances	289,383	254,570	(34,813)	-12.0%	218,922	On-Going
	TOTALS	**$946,244**	**$850,450**	**($95,794)**	**-10.1%**	**$687,477**	

Summary: These four projects, with an estimated total cost of $850.4 million, provide funding for the upgrade, expansion, and enhancement of wastewater treatment and solids handling facilities at the regional Blue Plains Wastewater Treatment Plant, located in the District of Columbia. Whereas typical WSSC Water projects encompass planning, design, construction, and start-up for a single project, with defined starting and ending dates, the Blue Plains projects are comprised of many sub-projects and are "open-ended." As the Blue Plains Facility Plans move forward and new sub-projects are approved, the costs of these new sub-projects are added to the appropriate existing Blue Plains project. The expenditures displayed represent WSSC Water's calculated share. There are four main funding divisions: liquid treatment train (S-22.06); biosolids management (S-22.07); plant-wide projects (S-22.09); and, pipelines & appurtenances (S-22.11).

Cost Impact: These four Blue Plains projects, which comprise one of the largest groups of expenditures in the CIP, represent 14.4% of the Six-Year WSSC Water combined program. The figures shown above are derived from the latest available spending projections provided by the District of Columbia Water and Sewer Authority (DCWASA). Spending at the DCWASA staff-proposed rate in future years may challenge the WSSC Water's ability to stay within County-established spending affordability limits. It is, therefore, recommended that the coordination of development and approval of the DCWASA's and WSSC Water's CIPs be sustained in order that the economic development and environmental objectives of the region be met, without causing a rapid increase in WSSC Water customers' bills.

Blue Plains WWTP: Liquid Train Projects, Part 2

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000022.06	954811	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Bi-County 30
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land											
Construction	357,675		18,264	280,540	27,075	40,351	43,260	55,680	58,436	55,738	58,871
Other	3,307		183	2,535		404	433	557	584	557	589
Total	**360,982**		**18,447**	**283,075**	**27,075**	**40,755**	**43,693**	**56,237**	**59,020**	**56,295**	**59,460**

C. Funding Schedule (000's)

WSSC Bonds	341,191		17,444	267,519	25,434	38,540	41,318	53,180	55,812	53,235	56,228
City of Rockville	19,791		1,003	15,556	1,641	2,215	2,375	3,057	3,208	3,060	3,232

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC Water's share of Blue Plains liquid process train projects for which construction began after June 30, 1993. This project is comprised of 24 projects that have been identified and prioritized by DC Water in their capital program. Projects with significant spending in FY'26 include: upgrades to the grit, screening, and primary treatment systems (BQ); upgrading effluent filters (IY); replacing/upgrading the primary clarifier mechanical components (J2); improvements to the headworks influent structures (BC); nitrification reactors/sedimentation upgrades (PE); liquid process rehabilitation (RN); and liquid processing PM (A2); and a rehab of the nitrification/sedimentation process – 20 year rebuild (LF).

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees;
Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life

JUSTIFICATION

This is a continuation of the DC Water's upgrading of the Blue Plains Wastewater Treatment Plant.
Blue Plains Inter-Municipal Agreement of 2012; DCWASA Master Plan (1998); Blue Plains Facilities Master Plan (2016); DC Water's preliminary FY'25 - FY'34 Capital Improvements Program.

COST CHANGE

The schedule and expenditure projections were updated to reflect the latest estimates available from DC Water for the constituent Blue Plains joint-use projects as of April 2024.

OTHER

The project scope has remained the same. Project costs are derived from the DC Water Capital Budget 10-year forecast of spending and DC Water's latest project management data, and fully reflect DC Water's cost estimates and expenditure schedules available at the time this document was prepared. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION

Coordinating Agencies: City of Rockville;(responsible for a share of funding); DC Water;(responsible for design and construction)
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$16,614	
Total Cost	$16,614	
Impact on Water and Sewer Rate	$0.04	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'95
Date First Approved	FY'95
Initial Cost Estimate	
Cost Estimate Last FY	387,893
Present Cost Estimate	360,982
Approved Request Last FY	18,447
Total Expense & Encumbrances	
Approval Request Year 1	27,075

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	169.6 / 370 MGD

H. Map

MAP NOT AVAILABLE

Blue Plains WWTP: Biosolids Management, Part 2

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000022.07	954812	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Bi-County 30
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land											
Construction	109,556		13,528	79,538	11,567	5,095	13,759	14,919	16,183	18,015	16,490
Other	980		135	680		51	138	149	162	180	165
Total	**110,536**		**13,663**	**80,218**	**11,567**	**5,146**	**13,897**	**15,068**	**16,345**	**18,195**	**16,655**

C. Funding Schedule (000's)

WSSC Bonds	104,456		12,920	75,786	10,866	4,866	13,142	14,249	15,457	17,206	15,750
City of Rockville	6,080		743	4,432	701	280	755	819	888	989	905

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC Water's share of the Blue Plains biosolids processes for which construction began after June 30, 1993. There are 12 projects from the DC Water capital program that are covered by the WSSC Water capital project. The projects that make up the majority of the FY'26 anticipated spending include: biosolids blending development center (I3); additional centrifuges for pre-digestion dewatering (LD); and implementation of an RNG initiative to power municipal buses (TL). Starting in FY'28 are planned upgrades to the DAF facility (XY), rehabilitate the dewatered sludge loading facility (XD); and biosolids process rehabilitation (RM);

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees; Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life

JUSTIFICATION

This project is needed to implement, upgrade, expand and rehabilitate various facilities that provide treatment and management of the Class A biosolids program for Blue Plains. Blue Plains Inter-Municipal Agreement of 2012; DCWASA Master Plan (1998); EPMC IV Facility Plan, CH2MHILL (2001); Biosolids Management at DCWASA Blue Plains Wastewater Treatment Plant Phase II - Design and Cost Considerations for Treatment Alternatives Report (December 2007); Blue Plains Facilities Master Plan (2016); and DC Water's preliminary FY'25 - FY'34 Capital Improvements Program.

COST CHANGE

The schedule and expenditure projections were updated to reflect the latest estimates available from DC Water for the constituent Blue Plains joint-use projects as of April 2024.

OTHER

The project scope has remained the same. Project costs are derived from the DC Water Capital Budget 10-year forecast of spending and DC Water's latest project management data, and fully reflect DC Water's cost estimates and expenditure schedules available at the time this document was prepared. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION

Coordinating Agencies: City of Rockville;(responsible for a share of funding); DC Water;(responsible for design and construction)
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$4,734	
Total Cost	$4,734	
Impact on Water and Sewer Rate	$0.01	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'95
Date First Approved	FY'95
Initial Cost Estimate	
Cost Estimate Last FY	127,386
Present Cost Estimate	110,536
Approved Request Last FY	13,663
Total Expense & Encumbrances	
Approval Request Year 1	11,567

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	169.6 / 370 MGD

H. Map

MAP NOT AVAILABLE

Blue Plains WWTP: Plant-wide Projects

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000022.09	023805	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Bi-County 30
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land											
Construction	123,304		15,775	104,393	17,458	23,316	20,698	21,299	12,839	8,783	3,136
Other	1,058		158	869		233	207	213	128	88	31
Total	**124,362**		**15,933**	**105,262**	**17,458**	**23,549**	**20,905**	**21,512**	**12,967**	**8,871**	**3,167**

C. Funding Schedule (000's)

WSSC Bonds	117,494		15,067	99,432	16,400	22,269	19,769	20,343	12,262	8,389	2,995
City of Rockville	6,868		866	5,830	1,058	1,280	1,136	1,169	705	482	172

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC Water's share of Blue Plains plant-wide projects for which construction began after June 30, 1993. There are 26 DC Water capital program projects covered by the WSSC Water capital project. Current projects with significant spending in FY'26 include: electrical system upgrades (TZ); floodwall construction (JF); plant-wide program management (AL); chemical system/building upgrades (PF); and other miscellaneous projects including roof replacements (OQ) and emergency repairs and rehab (V1, V2, V3). Other projects with significant spending over the 6-yr period include electrical monitoring (IC) in FY'27; implementation of solar power at Blue Plains phase 2 (XP) and control system replacement (GW) in FY'28.

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees;
Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life

JUSTIFICATION

This is a continuation of DC Water's upgrading of the Blue Plains Wastewater Treatment Plant.
Blue Plains Inter-Municipal Agreement of 2012; DCWASA Master Plan (1998); Blue Plains Facilities Master Plan (2016); and DC Water's preliminary FY'25-FY'34 Capital Improvements Program.

COST CHANGE

The schedule and expenditure projections were updated to reflect the latest estimates available from DC Water for the constituent Blue Plains joint-use projects as of April 2024.

OTHER

The project scope has remained the same. Project costs are derived from the DC Water Capital Budget 10-year forecast of spending and DC Water's latest project management data, and reflect DC Water's cost estimates and expenditure schedules available at the time this document was prepared. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost.

COORDINATION

Coordinating Agencies: City of Rockville;(responsible for a share of funding); DC Water;(responsible for design and construction)
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$6,227	
Total Cost	$6,227	
Impact on Water and Sewer Rate	$0.01	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'95
Date First Approved	FY'02
Initial Cost Estimate	
Cost Estimate Last FY	141,582
Present Cost Estimate	124,362
Approved Request Last FY	15,993
Total Expense & Encumbrances	
Approval Request Year 1	17,458

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	169.6 / 370 MGD

H. Map

MAP NOT AVAILABLE

Blue Plains: Pipelines & Appurtenances

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000022.11	113804	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Bi-County 30
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land											
Construction	252,216		15,785	216,921	16,862	29,097	46,056	44,313	40,763	39,830	19,510
Other	2,354		158	2,001		291	461	443	408	398	195
Total	**254,570**		**15,943**	**218,922**	**16,862**	**29,388**	**46,517**	**44,756**	**41,171**	**40,228**	**19,705**

C. Funding Schedule (000's)

WSSC Bonds	237,987		14,822	204,638	15,317	27,486	42,774	40,809	39,573	38,679	18,527
City of Rockville	16,583		1,121	14,284	1,545	1,902	3,743	3,947	1,598	1,549	1,178

D. Description & Justification

DESCRIPTION

This project provides funding for WSSC Water's share of Blue Plains-associated projects which are generally situated "outside the fence" of the treatment plant. There are 22 projects from the DC Water capital program under this project. Major projects in FY'26 include: rehabilitation of various portions of the Potomac Interceptor (LZ); on-going construction of the Potomac River Tunnel (CZ); renovations to the central office facility (COF) and central maintenance facility (CMF) at Blue Plains (HJ and HK); and various upgrades to sewer pumping stations (RS, RT and RU). Other projects with significant spending over the 6-year period include on-going rehabilitation projects on major sewers including the AFM, RCMI, Oxon Run and influent sewers to Blue Plains (RC and RD).

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees; Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties

JUSTIFICATION

This is a continuation of DC Water's upgrading of the Blue Plains-associated projects outside the fence.
Blue Plains Inter-Municipal Agreement of 2012; DCWASA Master Plan (1998); Technical Memorandum No. 1, Multi-Jurisdictional Use Facilities Capital Cost Allocation (June 2013); and DC Water's preliminary FY'25 - FY34 Capital Improvements Program.

COST CHANGE

The schedule and expenditure projections were updated to reflect the latest estimates available from DC Water for the constituent Blue Plains joint-use projects as of April 2024

OTHER

The project scope has remained the same. Project costs are derived from the DC Water Capital Budget 10-year forecast of spending and DC Water's latest project management data, and reflect DC Water's cost estimates and expenditure schedules available at the time this document was prepared. Given the open-ended nature of the Blue Plains projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Blue Plains facility plans, the associated costs will be added to this project. The funding schedule also indicates the calculated Rockville share of the cost, which varies by project based on the City's relative share of WSSC Water's flow as derived in the Multi-Jurisdiction Use Facilities Study.

COORDINATION

Coordinating Agencies: City of Rockville;(responsible for a share of funding); DC Water;(responsible for design and construction)
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$12,678	
Total Cost	$12,678	
Impact on Water and Sewer Rate	$0.03	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'11
Date First Approved	FY'02
Initial Cost Estimate	
Cost Estimate Last FY	289,363
Present Cost Estimate	254,570
Approved Request Last FY	15,943
Total Expense & Encumbrances	
Approval Request Year 1	16,862

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	45%
Environmental Regulation	55%
Population Served	
Capacity	

H. Map

MAP NOT AVAILABLE

Anacostia #2 WWPS Upgrades

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000089.24	382204	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Lower Anacostia 9
Planning Areas	Landover & Vicinity PA 72

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	7,038	3,827	1,165	2,046	956	880	200	10			
Land											
Construction	74,026	4,544	2,625	66,857	28,633	31,222	6,951	51			
Other	3,636		190	3,446	1,480	1,605	358	3			
Total	**84,700**	**8,371**	**3,980**	**72,349**	**31,069**	**33,707**	**7,509**	**64**			

C. Funding Schedule (000's)

WSSC Bonds	71,043	5,427	2,902	62,714	25,995	29,675	6,980	64			
SDC	7,346	2,355	811	4,180	2,447	1,733					
DC Water Contribution	6,311	589	267	5,455	2,627	2,299	529				

D. Description & Justification

DESCRIPTION

This project provides for the replacement of transformers, switch gear, and MCC-A with redesign of 13.8kv switch gear in two IPA enclosures and 4.16KV switch gear in one IPA enclosure at the Anacostia #2 Wastewater Pump Station (WWPS). The Anacostia #2 WWPS is WSSC Water's largest and most critical WWPS with an average flow of 50 to 60 MGD, and storm peaks up to 260 MGD instantaneous flow. This WWPS receives wastewater from a large portion of WSSC Water's service area and delivers it to the Blue Plains Advanced Wastewater Treatment Plant in Washington, DC. Secondly, this project involves replacement of five existing bar screens and associated electrical upgrades and implementing NFPA 820 requirements for the pump station. Thirdly, the coarse screening of Beaver Dam S.A. flows will be evaluated and rehabilitated. Fourthly, this project includes replacement of the pump station's roof.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand; Employee Safety: This project includes components that help protect the health and safety of employees

JUSTIFICATION

The majority of the electrical equipment, excluding all 4.16kV MCCs and the unit substation, were installed with the original construction in the late 1970s and is beyond its useful life. In addition, several equipment parts are becoming increasingly difficult to find since the equipment is obsolete. Failure of any of the above critical components could cause serious issues in providing reliable power to the pump station. This replacement, rehabilitation, and upgrade work was recommended by various business case evaluations undertaken as part of WSSC Water's Asset Management Program.

COST CHANGE

The schedule and expenditure projections were revised based upon updated engineer's estimates.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are a mix of preliminary design and planning level estimates and are expected to change based upon site conditions and design constraints. DC Water will contribute a share of the electrical upgrades and bar screens project costs, which is indicated on the funding schedule shown in Block C above.

COORDINATION

Coordinating Agencies: DC Water;(responsible for a share of funding); Maryland Department of the Environment; Potomac Electric Power Company
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$4,249	29
Total Cost	$4,249	29
Impact on Water and Sewer Rate	$0.01	29

F. Approval and Expenditure Data (000's)

Date First in Program	FY'22
Date First Approved	FY'22
Initial Cost Estimate	31,298
Cost Estimate Last FY	85,707
Present Cost Estimate	84,700
Approved Request Last FY	35,778
Total Expense & Encumbrances	8,371
Approval Request Year 1	31,069

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Design
Percent Complete	70 %
Estimated Completion Date	September 2027

Growth	9%
System Improvement	91%
Environmental Regulation	
Population Served	
Capacity	199 MGD

H. Map

MAP NOT APPLICABLE

Piscataway Bioenergy

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000103.02	063808	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	65,248	61,176	4,020	52	52						
Land	61	61									
Construction	267,291	257,175	9,600	516	516						
Other	709		681	28	28						
Total	**333,309**	**318,412**	**14,301**	**596**	**596**						

C. Funding Schedule (000's)

WSSC Bonds	329,388	317,842	10,950	596	596						
State Aid	3,921	570	3,351								

D. Description & Justification

DESCRIPTION

This project will develop a comprehensive program for the engineering, design, construction, maintenance, monitoring, and verification necessary to add sustainable energy equipment and systems to produce biogas and electricity at Piscataway WRRF. It will provide a reduction in operations, maintenance, chemicals, biosolids transportation, and biosolids disposal costs. It will also enhance existing operating conditions and reliability while continuing to meet all permit requirements, and ensure a continued commitment to environmental stewardship at WSSC Water sites. The scope of work includes, but is not limited to, the addition of anaerobic digestion equipment; thermal hydrolysis pretreatment equipment; gas cleaning, storage, and upgrade systems; tanks; piping; valves; pumps; biosolids pre- and post-dewatering; cake receiving and blending; cake storage; effluent disinfection systems; instrumentation; flow metering; power measurement; and combined heat and power generation systems.

BENEFIT

Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties; Financial Efficiency: This project is expected to increase revenues, decrease expenses, or both; Innovation: This project utilizes new ideas, methods, and/or research to streamline processes, enhance services, and reduce costs

JUSTIFICATION

In March 2009, WSSC Water received approval for a federal Department of Energy grant of $570,900 for the feasibility study/conceptual design phase. On June 16, 2010, WSSC Water awarded the study contract to AECOM Technical Services, Inc., of Laurel, Maryland. The study was completed in December 2011, and the Thermal Hydrolysis/Mesophilic Anaerobic Digestion/Combined Heat & Power facility was recommended to be constructed and was presented to WSSC Water in April 2012.

The EPA is urging wastewater utilities to utilize this commercially available technology (anaerobic digestion) to produce power at a cost below retail electricity, displace purchased fuels for thermal needs, produce renewable fuel for green power programs, enhance power reliability for the wastewater treatment plant to prevent sanitary sewer overflows, reduce biosolids production and improve the health of the Chesapeake Bay, and reduce greenhouse gas (GHG) and other air pollutants. In April 2009, the EPA announced that greenhouse gases contributed to air pollution that may endanger public health or welfare, and began proceedings to regulate CO2 under the Clean Air Act. In June 2014, the EPA announced a proposed rule to reduce carbon emissions from power plants by 30% by 2030, compared to the levels in 2005. Based on AECOM's feasibility study work as of May 2011, a regional/centralized plant design based on a Thermal Hydrolysis/Mesophillic Anaerobic Digestion/Combined Heat & Power (TH/MAD/CHP) process supplemented by restaurant grease fuel was recommended.

The environmental benefits are estimated as follows: recover approximately 2 MW of renewable energy from wastewater biomass; reduce geenhouse gas production; reduce biosolids output; reduce lime demand; maintain permitted nutrient load limits to the Chesapeake Bay; reduce 5 million gallons/year of grease discharge to sewers; and produce pathogen-free Class A Biosolids.

The economic benefits include recovery of more than $1.5 million of renewable energy costs/year; reduction of biosolids disposal costs; reduction of chemical costs; hedge against rising costs of power fuel and chemicals.

Plans & Studies: Appel Consultants, Urban Waste Grease Resource Assessment-NREL (November 1998); Environmental Protection Agency (EPA), Opportunities For and Benefits Of Combined Heat and Power at Wastewater Treatment Facilities (December 2006); Brown & Caldwell, Anaerobic Digestion and Electric Generation Options for WSSC (November 2007); Metcalf & Eddy, WSSC Sludge Digestion Study for Piscataway and Seneca (December 2007); Black & Veatch, WSSC Digester Scope and Analysis (December 2007); JMT, Prince George's County Septage (FOG) Discharge Facility Study (February

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other	$1,865	26
Maintenance		
Debt Service	$37	26
Total Cost	$1,902	26
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'15
Date First Approved	FY'10
Initial Cost Estimate	345
Cost Estimate Last FY	332,774
Present Cost Estimate	333,309
Approved Request Last FY	10,448
Total Expense & Encumbrances	318,412
Approval Request Year 1	596

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Construction
Percent Complete	97 %
Estimated Completion Date	January 2025

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT AVAILABLE

2008); JMT, Western Research Institute (WRI) Biogas Feasibility Study Scope of Work - WSSC (April 2008); JMT, Montgomery County Septage (FOG) Discharge Facility Study (January 2010); Facility Plan for the Rock Creek Wastewater Treatment Plant (January 2010); AECOM Technical Services, Inc., Anaerobic Digestion/Combined Heat & Power Study (December 2011, Executive Summary Revised May 2013); HDR Inc. Design Development Report (March 2017).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. WSSC Water has a defined scope and estimated capital cost, and is able to proceed with the detailed design and construction of the anerobic digestion, biomass, and combined heat and power generation system facilities for treating all biosolids from WSSC Water's Damascus, Seneca, Parkway, Western Branch, and Piscataway WRRFs. The Montgomery and Prince George's County Councils were briefed and approved the project by resolution on November 25, 2014 and September 9, 2014, respectively. In June 2017 WSSC Water was approved for a $3 million grant through the Maryland Department of the Environment's (MDE) Energy Water Infrastructure Program (EWIP). WSSC Water will continue to apply for other available funding sources. WSSC Water retained the following consulting services: in 2015 - Hawkins, Delafield and Wood - procurement; Raftelis Financial Consultants - financial; in 2016 - HDR Engineering, Inc. for program management and construction management for the Bioenergy project. In September 2017 WSSC Water issued a Request for Proposals (RFP) to two design-build entities for a progressive design-build delivery of the Bioenergy project. Transporting biosolids from Western Branch WRRF to Piscataway was included in the FY'19 program update. A portion of this project will be financed by low interest loans and grant funding through MDE's Water Infrastructure Financing Administration's Water Quality Revolving Loan Fund Program. In June 2018 WSSC Water awarded a Progressive Design-Build Contract to PC Construction for the Bioenergy project. In FY'19 the Solids Screenings at Four Remote WRRFs, Contract No. CD6630A19, was incorporated. The construction phase of biosolids screens at three remote facilities, Western Branch, Parkway and Damascus was substantially completed in mid FY'23. In January 2020, the Maryland Energy Administration notified WSSC Water of approval of grant funding up to $351,750 for Combined Heat & Power. WSSC Water has also applied for grants from SMECO, a local power utility, and was approved for $2,234K. In December 2020 Phase 1 of the Bioenergy project was completed. A Gas Supply and Delivery Contract with Washington Gas Light for natural gas delivery to and from the Piscataway WRRF in the amount of $8,510,000 was negotiated and executed on May 10, 2021. The construction phase of the Gas Supply and Delivery Contract was substantially completed in April 2023. In April 2023, the project received approval for $2,500,000 in additional grant funding through MDE.

COORDINATION

Coordinating Agencies: Chesapeake Bay Critical Areas; Maryland Department of the Environment; Maryland Energy Administration; Maryland-National Capital Park & Planning Commission;(Mandatory Referral Process); Montgomery County Department of Environmental Protection; Montgomery County Government; Prince George's County Government; SMECO; Washington Gas Light Company
Coordinating Projects: S - 000096.14 - Piscataway WRRF Facility Upgrades

Trunk Sewer Reconstruction Program

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000170.09	113805	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Bi-County 30
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	55,128		7,915	47,213	8,196	7,754	7,769	7,985	7,620	7,889	
Land											
Construction	155,521		28,882	126,639	29,876	24,887	19,262	17,277	17,365	17,972	
Other	21,260		3,875	17,385	3,807	3,264	2,703	2,526	2,499	2,586	
Total	**231,909**		**40,672**	**191,237**	**41,879**	**35,905**	**29,734**	**27,788**	**27,484**	**28,447**	

C. Funding Schedule (000's)

WSSC Bonds	231,909		40,672	191,237	41,879	35,905	29,734	27,788	27,484	28,447	

D. Description & Justification

DESCRIPTION

The Trunk Sewer Reconstruction Program provides for the inspection, evaluation, planning, design, and construction required for the rehabilitation of sewer mains and their associated manholes in environmentally sensitive areas (ESAs). This includes both trunk sewers 15-inches in diameter and greater, along with associated smaller diameter pipe less than 15-inches in diameter. The smaller diameter pipe is included due to its location within the ESA. The program also includes planning, design, and construction for the prioritized replacement of force mains and aerial sewers.

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees; Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties

JUSTIFICATION

Under the terms of the Consent Decree the WSSC Trunk Sewer Inspection Program inspected all required sewers in 21 basins by December 2010 and completed Sewer System Evaluation Surveys (SSES) for 9 basins. WSSC Water shall conduct rainfall, groundwater, and flow monitoring to determine Inflow/Infiltration (I/I) rates and identify areas of limited capacity through collection system modeling. Where appropriate, WSSC Water shall use additional means to identify sources of I/I, including CCTV, smoke, and/or dye testing. All the Trunk Sewer Inspections, SSES work, and other related collection system evaluations are complete. Due to the delay in receiving permits, as well as Right-of-Entry permissions and subcontractor availability, trunk sewer reconstruction work has been delayed. All USACE and MDE permits have been received. WSSC Sanitary Sewer Overflow Consent Decree (December 7, 2005). Second Amendment to WSSC Sanitary Sewer Overflow Consent Decree (December 4, 2015).

COST CHANGE

Program costs reflect the latest schedule and expenditure estimates based upon the recommendations from the Buried Wastewater Assets System Asset Management Plan.

OTHER

The project scope has remained the same. Reconstruction work will include: reduction of I/I; replacement of substandard sewer segments; in situ lining of sewer segments; pipeline and manhole protection; rebuilding of manholes; and correction of structural defects and poor alignment. The reconstruction work in each sewer basin will be prioritized to most effectively prevent SSOs and backups. A Second Amendment to the Consent Decree extending WSSC Water's deadline to FY'22 was agreed to by the U.S. Environmental Protection Agency, U.S. Department of Justice, and Maryland Department of the Environment and was entered by the U.S. District Court. All construction contracts for ESA work have been awarded and the approved amounts have been utilized in the current budget projections. As actual construction progresses the projections may be updated. Most of the upfront costs are associated with the construction of access roads and by-pass pumping. After completion of a majority of the Priority 1 construction activities associated with the Consent Decree, Phase 2 work (Priority 2 & 3 plus any newly identified Priority 1) is programmed at roughly eight miles per year beginning in FY'25. Future land costs are included in project S-203.00.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland Historical Trust; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Montgomery County Department of Public Works and Transportation;

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$11,740	
Total Cost	$11,740	
Impact on Water and Sewer Rate	$0.03	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'11
Date First Approved	FY'11
Initial Cost Estimate	
Cost Estimate Last FY	352,539
Present Cost Estimate	231,909
Approved Request Last FY	49,430
Total Expense & Encumbrances	
Approval Request Year 1	41,879

G. Status Information

Land Status	Land and R/W to be acquired
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

National Park Service; Prince George's County Department of Permitting Inspection and Enforcement; U.S. Army Corps of Engineers; U.S. Environmental Protection Agency, Region III
Coordinating Projects: S - 000001.01 - Sewer Reconstruction Program; S - 000001.02 - Hi-Influent Infiltration Basin Rehabilitation

Land & Rights-of-Way Acquisition - Bi-County Sewer

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000203.00	163800	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land	1,673		400	1,273	298	195	195	195	195	195	
Construction											
Other											
Total	**1,673**		**400**	**1,273**	**298**	**195**	**195**	**195**	**195**	**195**	

C. Funding Schedule (000's)

WSSC Bonds	1,613		400	1,213	238	195	195	195	195	195	
SDC	60			60	60						

D. Description & Justification

DESCRIPTION

This project provides a consolidated estimate of funding for the acquisition of land and rights-of-way for sewer projects and programs. Expenditures are programmed based upon anticipated schedules and are required for the completion of those specific projects. These costs do not include purchases which have already been completed.

BENEFIT

Financial Efficiency: This project is expected to increase revenues, decrease expenses, or both

JUSTIFICATION

Consolidation of expenditures for land and rights-of-way acquisitions provides flexibility in expending funds in a specific fiscal year and permits WSSC Water to respond to the uncertainty of project-specific implementation schedules. Other considerations include the accommodation of unpredictable delays which impact the timing of a planned purchase, unanticipated rights-of-way requirements due to minor alignment changes identified late in the design phase, and the need to assure WSSC Water an equitable negotiation position by avoiding project-specific cost displays prior to contacting property owners.

Acquisition needs are determined by WSSC Water and are based upon facility planning efforts, alignment studies, field surveys, realignments required by other agencies, or requirements identified within the Development Services Process.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are estimates only and may change based upon actual negotiations. When purchases are complete, the actual cost will be displayed in the expenditure schedule on the appropriate project.

COORDINATION

Coordinating Agencies: Not Applicable
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$93	
Total Cost	$93	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'98
Date First Approved	FY'98
Initial Cost Estimate	
Cost Estimate Last FY	2,165
Present Cost Estimate	1,673
Approved Request Last FY	595
Total Expense & Encumbrances	
Approval Request Year 1	298

G. Status Information

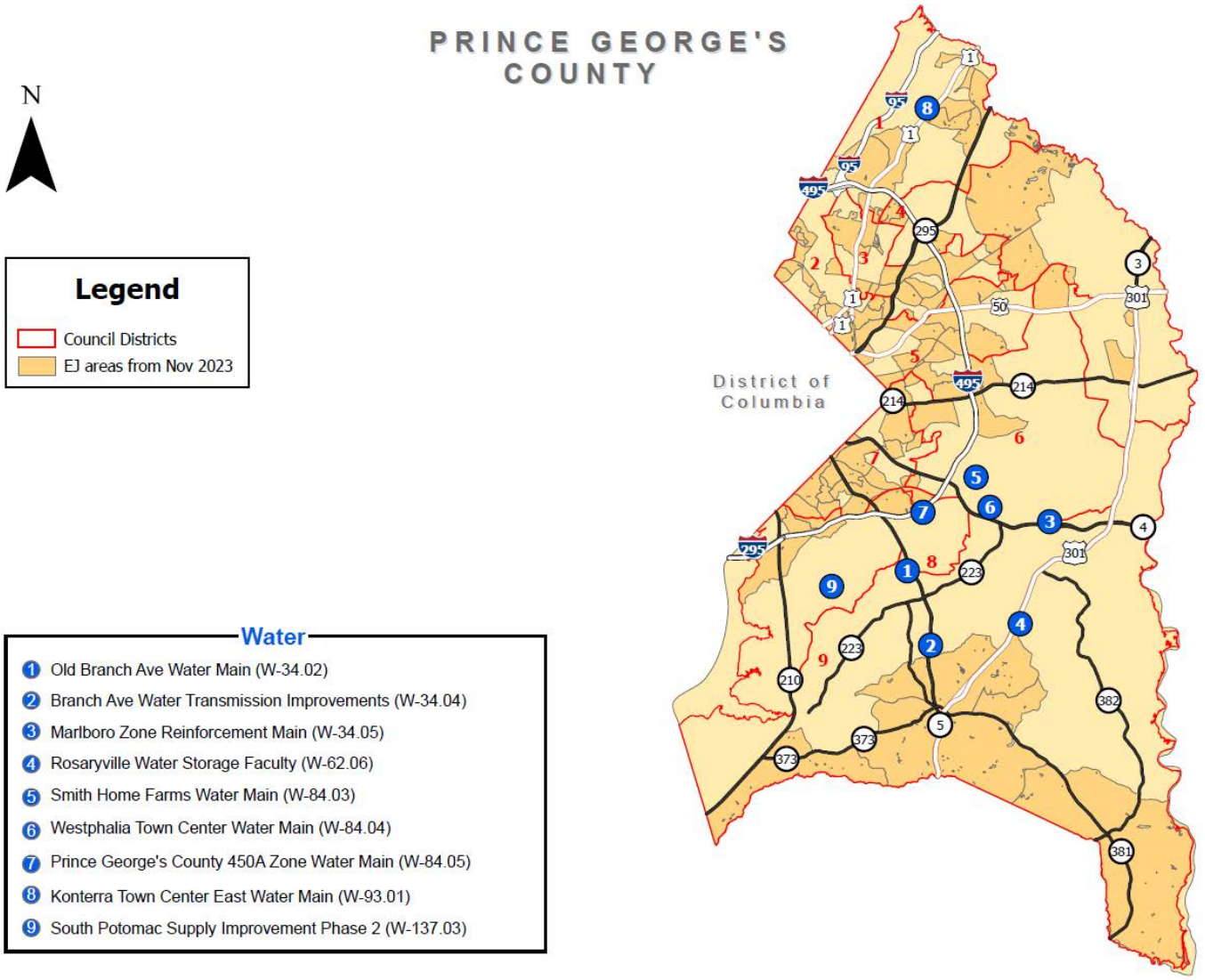
Land Status	Land and R/W to be acquired
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	Not Applicable

Growth	10%
System Improvement	90%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

Section 5 - Prince George's County Water Projects



DATE: October 1, 2024

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

PRINCE GEORGE'S COUNTY WATER PROJECTS

AGENCY NUMBER	PROJECT NAME	EST. TOTAL COST	EXPEND THRU 24	EST. EXPEND 25	TOTAL SIX YEARS	EXPENDITURE SCHEDULE						BEYOND SIX YEARS	PAGE NUM
						YEAR 1 FY26	YEAR 2 FY27	YEAR 3 FY28	YEAR 4 FY29	YEAR 5 FY30	YEAR 6 FY31		
Water Treatment and Storage (WFPs, Reservoirs, Water Tanks)													
W - 000062.06	Rosaryville Water Storage Facility	10,490	-	-	-	-	-	-	-	-	-	10,490	5-5
	CATEGORY SUBTOTAL	**10,490**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**10,490**	
Water Distribution (Water Mains and Pump Stations)													
W - 000034.02	Old Branch Avenue Water Main	34,665	24,155	10,500	10	10	-	-	-	-	-	-	5-2
W - 000034.04	Branch Avenue Water Transmission Improvements	59,690	22,778	21,079	15,833	13,706	2,121	6	-	-	-	-	5-3
W - 000034.05	Marlboro Zone Reinforcement Main	4,511	1,845	2,631	35	35	-	-	-	-	-	-	5-4
W - 000084.03	Smith Home Farms Water Main	2,461	640	454	1,367	454	455	458	-	-	-	-	5-6
W - 000084.04	Westphalia Town Center Water Main	2,474	223	1,168	1,083	495	290	249	49	-	-	-	5-7
W - 000084.05	Prince George's County 450A Zone Water Main	49,873	3,360	1,106	45,407	4,998	13,266	11,072	8,866	7,205	-	-	5-8
W - 000093.01	Konterra Town Center East Water Main	3,022	433	836	1,753	1,066	687	-	-	-	-	-	5-9
W - 000137.03	South Potomac Supply Improvement, Phase 2	57,499	2,791	158	54,550	788	11,288	10,658	10,658	10,605	10,553	-	5-10
	CATEGORY SUBTOTAL	**214,195**	**56,225**	**37,932**	**120,038**	**21,552**	**28,107**	**22,443**	**19,573**	**17,810**	**10,553**	**-**	
	Projects Pending Close-Out	-	-	-	-	-	-	-	-	-	-	-	5-12
	TOTALS	**224,685**	**56,225**	**37,932**	**120,038**	**21,552**	**28,107**	**22,443**	**19,573**	**17,810**	**10,553**	**10,490**	

Old Branch Avenue Water Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000034.02		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Clinton HG385B
Drainage Basins	
Planning Areas	Clinton & Vicinity PA 81A

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	1,864	1,817	45	2	2						
Land	268	268									
Construction	31,576	22,069	9,500	7	7						
Other	956		955	1	1						
Total	**34,664**	**24,154**	**10,500**	**10**	**10**						

C. Funding Schedule (000's)

WSSC Bonds	17,333	12,078	5,250	5	5						
SDC	17,333	12,078	5,250	5	5						

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 16,000 feet of 30-inch diameter water main and a new flow control valve along Old Branch Avenue, from Allentown Road to Piscataway Road.

BENEFIT

System Reliability: This project will improve service reliability through fewer and shorter service interruptions; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand

JUSTIFICATION

This project will provide redundancy to a large area of Prince George's County, including the 85,000 customers in Clinton Pressure Zone HG385B and dependent zones. Service to these zones would be severely disrupted with the loss of the Marlboro Road Pressure Reducing Valves or associated piping. WSSC Water attempts to provide for average day demands in the event of the loss of any one water system facility and this project will meet that goal for Clinton Pressure Zone HG385B and dependent zones.

General Plan; M-NCP&PC Round 7.0 growth forecasts; WSSC Memorandum dated May 16, 2006.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are actual bids and may change based upon site conditions and design revisions. Five properties have been acquired.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Prince George's County Government; Prince George's County Department of Permitting Inspection and Enforcement
Coordinating Projects: W - 000062.06 - Rosaryville Water Storage Facility; W - 000084.05 - Prince George's County 450A Zone Water Main; W - 000137.03 - South Potomac Supply Improvement, Phase 2

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$330	26
Debt Service		
Total Cost	$330	26
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

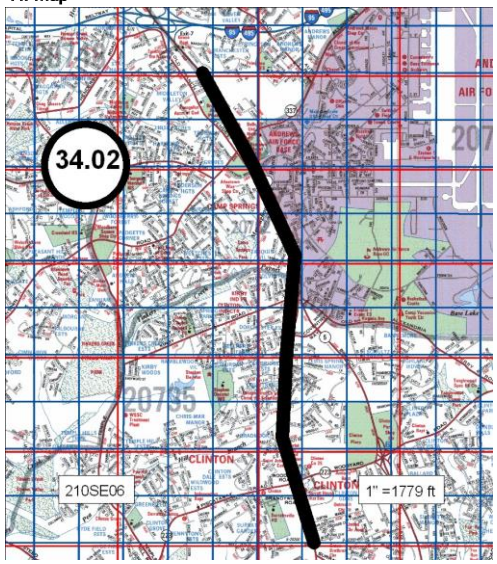
Date First in Program	FY'08
Date First Approved	FY'08
Initial Cost Estimate	10,350
Cost Estimate Last FY	32,844
Present Cost Estimate	34,664
Approved Request Last FY	7,756
Total Expense & Encumbrances	24,154
Approval Request Year 1	10

G. Status Information

Land Status	Land and R/W Acquired
Project Phase	Construction
Percent Complete	60 %
Estimated Completion Date	June 2025

Growth	50%
System Improvement	50%
Environmental Regulation	
Population Served	
Capacity	

H. Map



Branch Avenue Water Transmission Improvements

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000034.04		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Clinton HG385B
Drainage Basins	
Planning Areas	Clinton & Vicinity PA 81A

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	3,917	3,769	75	73	53	20					
Land	244	244									
Construction	53,770	18,765	20,000	15,005	13,000	2,000	5				
Other	1,759		1,004	755	653	101	1				
Total	**59,690**	**22,778**	**21,079**	**15,833**	**13,706**	**2,121**	**6**				

C. Funding Schedule (000's)

SDC	54,173	22,778	17,927	13,468	11,657	1,806	5				
Charles County Government	5,517		3,152	2,365	2,049	315	1				

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 18,121 feet of 42-inch diameter, 2,600 feet of 36-inch diameter, and 5,590 feet of 30-inch diameter water transmission mains along Branch Avenue, Brandywine Road, and Surratts Road in the Clinton area.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand

JUSTIFICATION

The new water main will serve as a primary feed to the new Brandywine (formerly Clinton South) Tank.
Clinton Zone WSF & Transmission Improvements Modeling and Master Plan Report, Gannett Fleming, Inc. (February 2012); Addendum No. 1 to the 1987 Water Supply Agreement (June 2022).

COST CHANGE

The schedule and expenditure projections were revised based upon updated engineer's estimates.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are a mix of construction costs and design level estimates and may change based upon site conditions and design constraints. This project is split into four phases. The first phase is comprised of approximately 1,200 feet of 42-inch pipe along Surratts Road and has been constructed by Prince George's County as part of the County Surratts/Brandywine road widening project. The second phase is approximately 3,300 feet of 30-inch main along Branch Avenue and has been constructed by the Maryland State Highway Administration (SHA) under the SHA MD5/Brandywine interchange improvement project. The third phase was to construct approximately 12,400 feet of 42-inch pipe and 2,320 feet of 30-inch pipe along Branch Avenue and the construction was completed in Fall 2019 by a WSSC Water contractor. The last phase is to construct the approximately 6,900 feet of remaining pipe along Brandywine Road and Surratts Road to tie-in to the existing 30-inch pipe on Woodyard/Piscataway Road. Replacing approximately 3,000 feet of existing 16-inch PCCP pipe will also be included under this contract. Phase IV (BL5273F11) will also be bid and constructed by WSSC Water. The phase and completion percentage have been updated to reflect the status of Phase IV instead of all the phases. Charles County will contribute a share of the project costs, as indicated on the funding schedule shown in Block C above, in accordance with Addendum No. 1 to the 1987 Water Supply Agreement between WSSC Water and Charles County. No WSSC Water rate supported debt will be used for this project. No additional land costs are anticipated at this time.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission;(Mandatory Referral Process); Prince George's County Department of Public Works and Transportation; Prince George's County Government; Prince George's County Department of Permitting Inspection and Enforcement; U.S. Army Corps of Engineers
Coordinating Projects: W - 000062.06 - Rosaryville Water Storage Facility

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$542	28
Debt Service		
Total Cost	$542	28
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

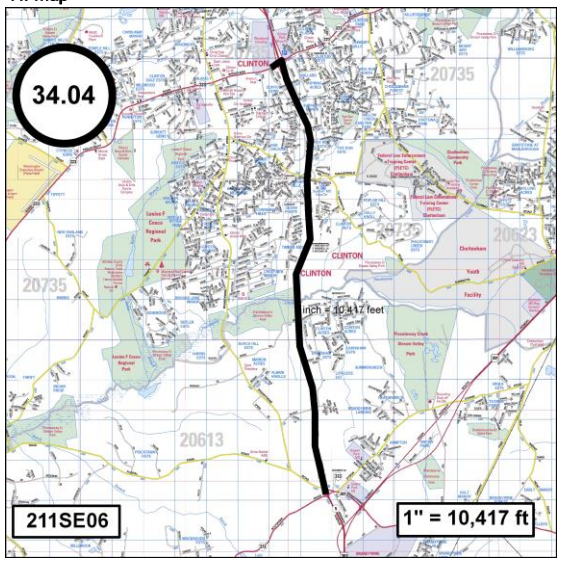
Date First in Program	FY'14
Date First Approved	FY'14
Initial Cost Estimate	23,705
Cost Estimate Last FY	63,273
Present Cost Estimate	59,690
Approved Request Last FY	21,058
Total Expense & Encumbrances	22,778
Approval Request Year 1	13,706

G. Status Information

Land Status	Land and R/W Acquired
Project Phase	Design
Percent Complete	100 %
Estimated Completion Date	December 2026

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	

H. Map



Marlboro Zone Reinforcement Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000034.05		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Clinton HG385B
Drainage Basins	
Planning Areas	Clinton & Vicinity PA 81A

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	527	512	10	5	5						
Land	3	3									
Construction	3,632	1,330	2,277	25	25						
Other	349		344	5	5						
Total	**4,511**	**1,845**	**2,631**	**35**	**35**						

C. Funding Schedule (000's)

WSSC Bonds	4,511	1,845	2,631	35	35						

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 4,000 feet of 16-inch diameter water transmission main and a flow control valve along Old Marlboro Pike in the Clinton area.

BENEFIT

System Reliability: This project will improve service reliability through fewer and shorter service interruptions

JUSTIFICATION

This new water main will provide system reliability and redundancy by connecting the 385B and 280A pressure zones. Clinton Zone WSF & Transmission Improvements Modeling and Master Plan Report, Gannett Fleming, Inc. (February 2012).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are design level estimates and may change based upon site conditions and design constraints.

COORDINATION

Coordinating Agencies: Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission;(Mandatory Referral Process); Prince George's County Department of Environmental Resources; Prince George's County Government; Prince George's County Department of Permitting Inspection and Enforcement
Coordinating Projects: W - 000062.06 - Rosaryville Water Storage Facility

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$82	27
Debt Service	$2	27
Total Cost	$84	27
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

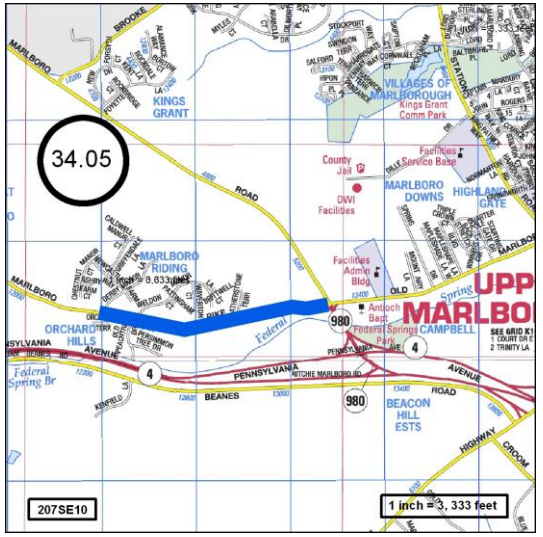
Date First in Program	FY'14
Date First Approved	FY'14
Initial Cost Estimate	5,234
Cost Estimate Last FY	5,256
Present Cost Estimate	4,511
Approved Request Last FY	2,990
Total Expense & Encumbrances	1,845
Approval Request Year 1	35

G. Status Information

Land Status	R/W acquired
Project Phase	Construction
Percent Complete	5 %
Estimated Completion Date	December 2025

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map



Rosaryville Water Storage Facility

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000062.06		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Southern 385B
Drainage Basins	
Planning Areas	Rosaryville PA 82A

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	975										975
Land											
Construction	8,145										8,145
Other	1,370										1,370
Total	**10,490**										**10,490**

C. Funding Schedule (000's)

SDC	10,490										10,490

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of approximately 2.0 million gallons (MG) of water storage to serve the Rosaryville area in the Clinton Pressure Zone.

BENEFIT

System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand; System Reliability: This project will improve service reliability through fewer and shorter service interruptions

JUSTIFICATION

Clinton Pressure Zone HG385B serves a large and growing area of Southern Prince George's County. Since storage facilities must be periodically removed from service for maintenance, having only one in a large zone creates operational problems. The Modeling and Master Plan Report indicates that there will be approximately 4.0 MG of storage deficit in Clinton Pressure Zone HG385B. WSSC Memorandum dated May 9, 2005, from Timothy Hirrel, Unit Coordinator, to Craig Fricke, Planning Group Leader; 2006 Water Production Projections; 2005 Water Storage Volume Criteria; Clinton Zone WSF & Transmission Improvements Modeling and Master Plan Report, Gannett Fleming, Inc. (February 2012); Finished Water Storage Analysis Report (June 2013).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are planning level estimates and are expected to change based upon site conditions and design constraints. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Prince George's County Department of Environmental Resources; Prince George's County Government
Coordinating Projects: W - 000034.02 - Old Branch Avenue Water Main; W - 000034.04 - Branch Avenue Water Transmission Improvements; W - 000034.05 - Marlboro Zone Reinforcement Main

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service		
Total Cost		
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'21
Date First Approved	FY'13
Initial Cost Estimate	8,510
Cost Estimate Last FY	10,137
Present Cost Estimate	10,490
Approved Request Last FY	
Total Expense & Encumbrances	
Approval Request Year 1	

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Design
Percent Complete	0 %
Estimated Completion Date	TBD

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	2.0 MG

H. Map

Smith Home Farms Water Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000084.03		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Southern 385B
Drainage Basins	
Planning Areas	Westphalia & Vicinity PA 78

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	957	640	79	238	79	79	80				
Land											
Construction	1,267		316	951	316	317	318				
Other	237		59	178	59	59	60				
Total	**2,461**	**640**	**454**	**1,367**	**454**	**455**	**458**				

C. Funding Schedule (000's)

Contributions/Other	2,461	640	454	1,367	454	455	458				

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 4,310 feet of 16-inch diameter water main to serve the Smith Home Farms Subdivision.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Smith Home Farm Subdivision Hydraulic Planning Analysis (Amended March 2022).

COST CHANGE

Not applicable.

OTHER

The project scope has changed. Approximately 55% of the project is completed, and 4,310 feet of the original 7,600 feet of 16-inch water main is remaining. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. Design and construction will be performed by the developer under a System Extension Permit. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland-National Capital Park & Planning Commission;(Westphalia Sector Plan); Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$157	
Debt Service		
Total Cost	$157	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

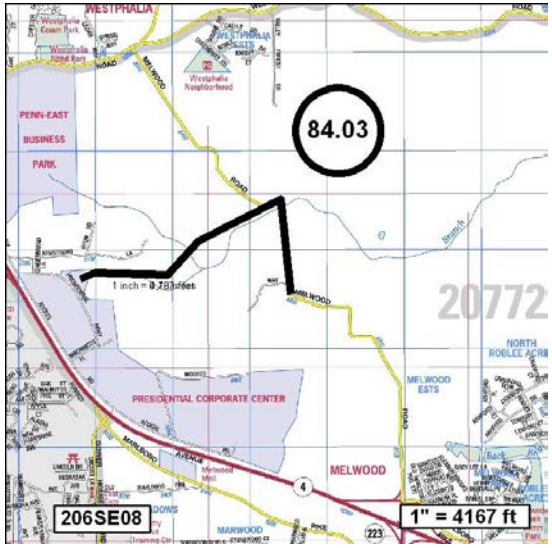
Date First in Program	FY'08
Date First Approved	FY'08
Initial Cost Estimate	1,600
Cost Estimate Last FY	4,603
Present Cost Estimate	2,461
Approved Request Last FY	569
Total Expense & Encumbrances	640
Approval Request Year 1	454

G. Status Information

Land Status	Not Applicable
Project Phase	Construction
Percent Complete	55 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	

H. Map



Westphalia Town Center Water Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000084.04		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Clinton HG385B
Drainage Basins	
Planning Areas	Westphalia & Vicinity PA 78

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	492	223	86	183	65	49	35	34			
Land											
Construction	1,686		929	757	365	203	181	8			
Other	296		153	143	65	38	33	7			
Total	**2,474**	**223**	**1,168**	**1,083**	**495**	**290**	**249**	**49**			

C. Funding Schedule (000's)

Contributions/Other	2,474	223	1,168	1,083	495	290	249	49			

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 4,700 feet of 16-inch diameter water main to serve Westphalia Town Center and vicinity.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Westphalia Town Center Hydraulic Planning Analysis (June 2009).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon the information provided by the developer. Design and construction will be performed by the developer under a System Extension Permit. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Prince George's County Government; Prince George's County Department of Permitting Inspection and Enforcement
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$97	
Debt Service		
Total Cost	$97	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

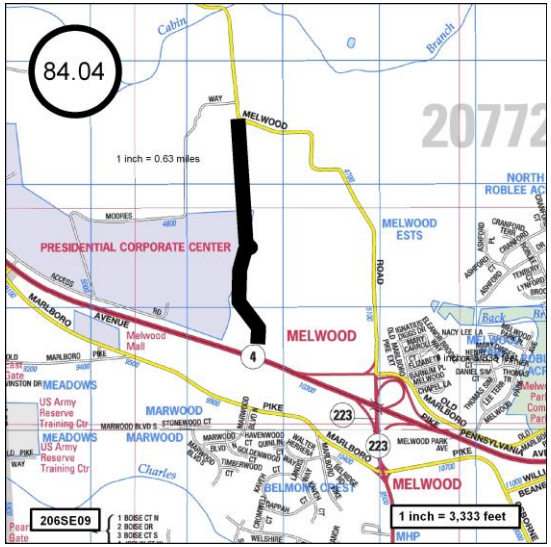
Date First in Program	FY'14
Date First Approved	FY'14
Initial Cost Estimate	1,396
Cost Estimate Last FY	2,429
Present Cost Estimate	2,474
Approved Request Last FY	66
Total Expense & Encumbrances	223
Approval Request Year 1	495

G. Status Information

Land Status	Not Applicable
Project Phase	Construction
Percent Complete	60 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	

H. Map



Prince George's County 450A Zone Water Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000084.05		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Prince George's High HG450A
Drainage Basins	
Planning Areas	Prince George's County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	3,441	3,178	5	258	23	60	65	60	50		
Land	181	181									
Construction	42,066	1	1,000	41,065	4,565	12,000	10,000	8,000	6,500		
Other	4,185		101	4,084	410	1,206	1,007	806	655		
Total	**49,873**	**3,360**	**1,106**	**45,407**	**4,998**	**13,266**	**11,072**	**8,866**	**7,205**		

C. Funding Schedule (000's)

WSSC Bonds	49,873	3,360	1,106	45,407	4,998	13,266	11,072	8,866	7,205		

D. Description & Justification

DESCRIPTION

This project provides for a capacity and alignment study, design, and construction of approximately 3.5 miles of new 48-inch diameter redundant transmission main for Prince George's High Pressure Zone HG450A. Portions of the transmission main that currently serve the HG450A and HG290B Pressure Zones will be out of service almost every year to meet the goals of the PCCP inspection program. A redundant transmission main is required to continue to provide service to our customers while the existing transmission main is planned to be out of service and to provide service in case the existing main fails.

BENEFIT

System Reliability: This project will improve service reliability through fewer and shorter service interruptions; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand

JUSTIFICATION

When portions of the existing main are out of service, the remaining mains lack sufficient capacity and pumping against these restrictions can cause high pressure that may result in pipe failure. The new transmission main may parallel or replace existing mains as determined by modeling. The new main should be a minimum of 30-inch diameter and will start where the existing 54-inch diameter main inside the beltway connects to an existing 30-inch diameter main just north of Pennsylvania Avenue and tie in to the new 30-inch diameter main to be constructed under project W-34.02.

COST CHANGE

The schedule and expenditure projections were revised based upon updated engineer's estimates.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are preliminary design level estimates and are expected to change based upon site conditions and design constraints. An alignment and capacity study has been performed and final alignment and pipeline diameter has been selected. Northern alignment change required due SHA permitting requirements change. This design change also required the relocation of an existing PRV (May 2021). Future land costs are included in project W-202.00.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Historical Trust; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission;(Mandatory Referral Process); National Park Service; Prince George's County Department of Public Works and Transportation; Prince George's County Government; Prince George's County Department of Permitting Inspection and Enforcement; U.S. Army Corps of Engineers;Joint Base Andrews military base; Washington Metropolitan Area Transit Authority
Coordinating Projects: W - 000034.02 - Old Branch Avenue Water Main; W - 000137.03 - South Potomac Supply Improvement, Phase 2

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$406	31
Debt Service	$3,092	31
Total Cost	$3,498	31
Impact on Water and Sewer Rate	$0.01	31

F. Approval and Expenditure Data (000's)

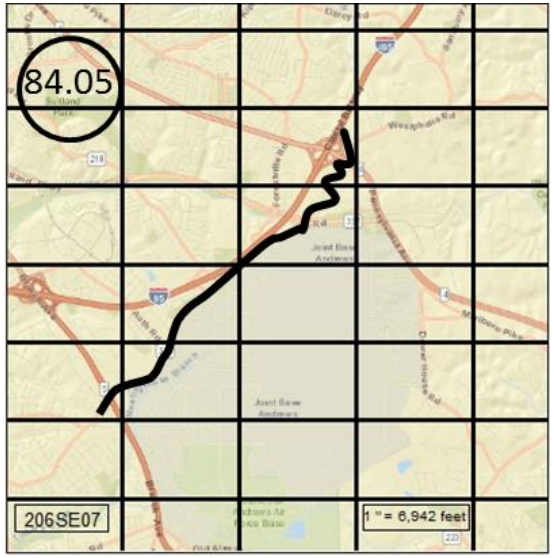
Date First in Program	FY'13
Date First Approved	FY'13
Initial Cost Estimate	374
Cost Estimate Last FY	49,862
Present Cost Estimate	49,873
Approved Request Last FY	5,550
Total Expense & Encumbrances	3,360
Approval Request Year 1	4,998

G. Status Information

Land Status	Land and R/W to be acquired
Project Phase	Design
Percent Complete	90 %
Estimated Completion Date	July 2029

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map



Konterra Town Center East Water Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000093.01		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Prince George's 415A
Drainage Basins	
Planning Areas	Northwestern Area PA 60

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	426	132	95	199	121	78					
Land											
Construction	2,258	301	632	1,325	806	519					
Other	338		109	229	139	90					
Total	**3,022**	**433**	**836**	**1,753**	**1,066**	**687**					

C. Funding Schedule (000's)

Contributions/Other	3,022	433	836	1,753	1,066	687					

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 9,200 feet of 16-inch diameter water main to serve Konterra Town Center East, located in the area bounded by Interstate 95, the Intercounty Connector, and Konterra Drive. The sleeve for the water main crossing the Intercounty Connector was built under project S-28.18.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Letter of Findings DA4623Z07 (June 2009). LOF 1st Amendment (August 2013). LOF 2nd Amendment (October 2018). LOF 3rd Amendment (January 2023).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. Design and construction will be performed by the developer under a Systems Extension Permit. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Prince George's County Government
Coordinating Projects: S - 000028.18 - Konterra Town Center East Sewer

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$190	
Debt Service		
Total Cost	$190	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

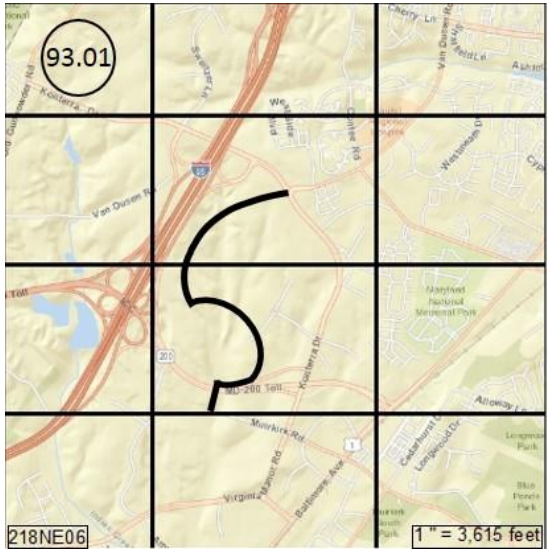
Date First in Program	FY'09
Date First Approved	FY'09
Initial Cost Estimate	610
Cost Estimate Last FY	2,885
Present Cost Estimate	3,022
Approved Request Last FY	1,033
Total Expense & Encumbrances	433
Approval Request Year 1	1,066

G. Status Information

Land Status	Not Applicable
Project Phase	Construction
Percent Complete	9 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	

H. Map



South Potomac Supply Improvement, Phase 2

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000137.03		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Potomac 290B; Prince George's High HG450A; Rosecroft
Drainage Basins	
Planning Areas	Henson Creek PA 76B

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	4,891	2,791	150	1,950	750	750	150	150	100	50	
Land											
Construction	50,000			50,000		10,000	10,000	10,000	10,000	10,000	
Other	2,608		8	2,600	38	538	508	508	505	503	
Total	**57,499**	**2,791**	**158**	**54,550**	**788**	**11,288**	**10,658**	**10,658**	**10,605**	**10,553**	

C. Funding Schedule (000's)

WSSC Bonds	37,948	1,842	104	36,002	520	7,450	7,034	7,034	6,999	6,965	
SDC	19,551	949	54	18,548	268	3,838	3,624	3,624	3,606	3,588	

D. Description & Justification

DESCRIPTION

This project provides for the design and construction of 4.4 miles of 42-inch diameter ductile iron transmission main, 6.0 miles of distribution mains (diameters ranging from 10 to 16-inches), and a new flow control valve and vault. The project will replace 3.5 miles of existing 42-inch diameter PCCP transmission main located within the Henson Creek corridor and will replace parallel aged distribution infrastructure located along the project limits.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand

JUSTIFICATION

During design of the 42-inch PCCP transmission main replacement under CIP W-137.02, South Potomac Supply Improvement, Phase 1, WSSC Water and the Maryland Department of the Environment discussed extensive requirements for stream restoration of Henson Creek. At that time, WSSC Water staff identified up to 3.5 miles of pipe south of the project area that is exposed along eroding stretches of Henson Creek. An alignment study began under CIP W-137.03, South Potomac Supply Improvement, Phase 2, to evaluate possible relocation of the existing 42-inch PCCP main between Rosecroft Drive and Piscataway Highway. The 3.5 miles of PCCP main will be relocated out of Henson Creek and into a roadway alignment between Temple Hill Road and Piscataway Highway, for a total of 4.4 miles of new 42-inch ductile iron pipe. The transmission main will be relocated out of the 290B pressure zone and into the 450A pressure zone. Phase 2 includes the installation of a flow control valve between pressure zones 450A and 290B.

Concept Finalization Report, O'Brien & Gere Engineers Inc. (January 2014); Alignment Study - Final: Henson Creek 42-Inch Water Main Replacement, O'Brien & Gere Engineers Inc. (April 2017).

COST CHANGE

Design and construction costs have been updated based on a high level estimate and as coordinated with budget office. The update is necessary because the project design is put on hold so there were no activities performed during this update period. The design re-start anticipated by early next year.

OTHER

The project scope has remained the same. It will be re-evaluated once the design restart.

Based on previous design work completed prior to the project was put on hold: The Phase 1 alignment study was completed in April 2017. Notice to Proceed for Phase 2 (Design) was issued in February 2018. The schedule and expenditure projections for Phase 2 are preliminary design estimates and are expected to change based upon design constraints, site-specific conditions, and stream restoration requirements for Henson Creek. Future land costs are included in project W-202.00.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland-National Capital Park & Planning

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$750	32
Debt Service	$2,210	32
Total Cost	$2,960	32
Impact on Water and Sewer Rate	$0.01	32

F. Approval and Expenditure Data (000's)

Date First in Program	FY'18
Date First Approved	FY'07
Initial Cost Estimate	53,374
Cost Estimate Last FY	79,161
Present Cost Estimate	57,499
Approved Request Last FY	25,563
Total Expense & Encumbrances	2,791
Approval Request Year 1	788

G. Status Information

Land Status	
Project Phase	Design
Percent Complete	30 %
Estimated Completion Date	June 2031

Growth	34%
System Improvement	66%
Environmental Regulation	
Population Served	
Capacity	

H. Map

Commission; Prince George's County Government; Prince George's County Department of Permitting Inspection and Enforcement; U.S. Army Corps of Engineers; Washington Gas Light Company
Coordinating Projects: W - 000034.02 - Old Branch Avenue Water Main; W - 000084.05 - Prince George's County 450A Zone Water Main

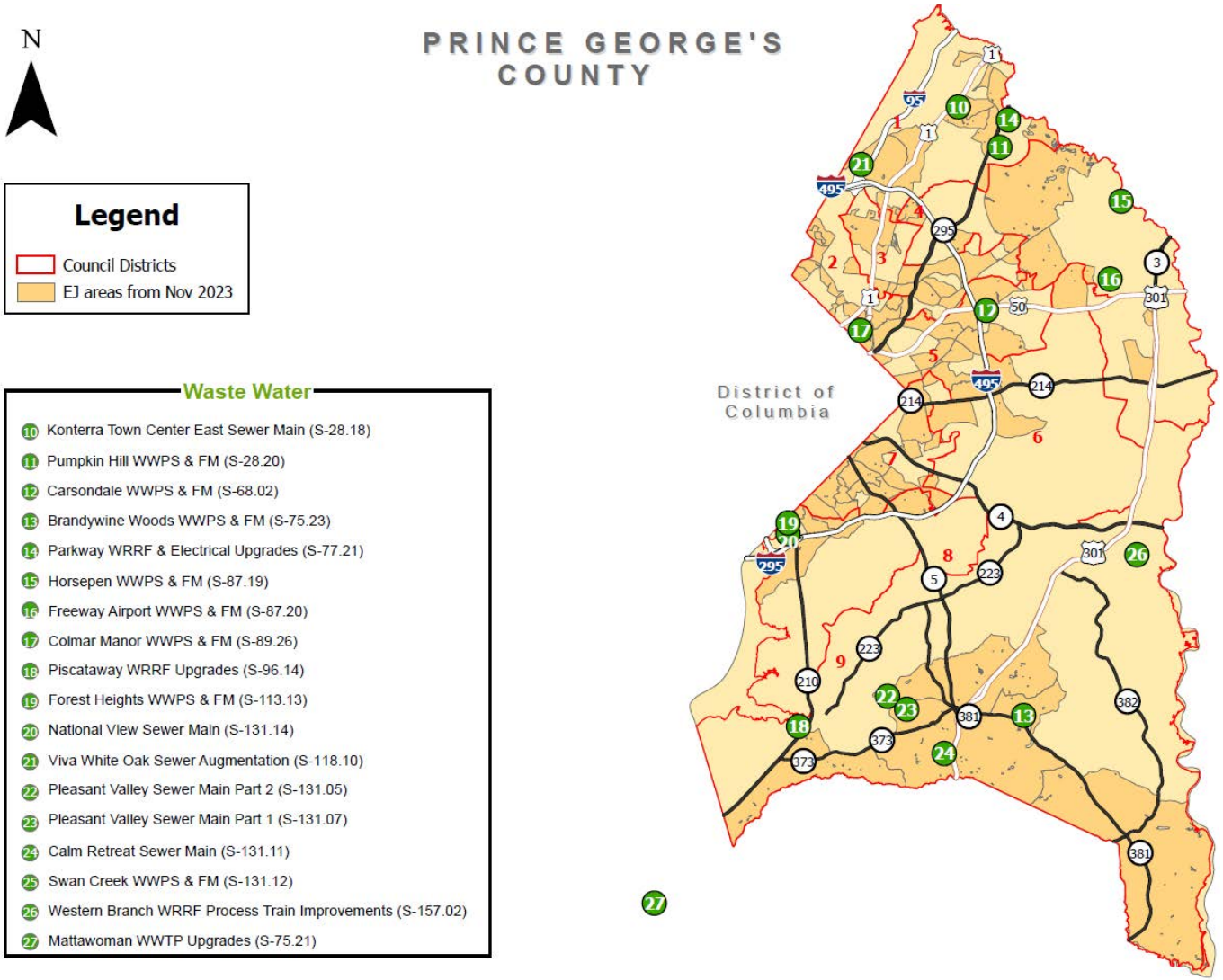
PENDING CLOSE-OUT PROJECT LISTING

PRINCE GEORGE' COUNTY WATER PROJECTS

(ALL FIGURES IN THOUSANDS)

AGENCY NUMBER	PROJECT NAME	ESTIMATED TOTAL COST	EXPENDITURES THRU FY 24	ESTIMATED EXPENDITURES FY 25	REMARKS
W - 000105.01	Marlton Section 18 Water Main, Lake Marlton Avenue				Project expired due to 3 years of inactivity.
	TOTALS				

Section 6 - Prince George's County Sewer Projects



DATE: October 1, 2024

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

PRINCE GEORGE'S COUNTY SEWER PROJECTS

AGENCY NUMBER	PROJECT NAME	EST. TOTAL COST	EXPEND THRU 24	EST. EXPEND 25	TOTAL SIX YEARS	EXPENDITURE SCHEDULE						BEYOND SIX YEARS	PAGE NUM
						YEAR 1 FY26	YEAR 2 FY27	YEAR 3 FY28	YEAR 4 FY29	YEAR 5 FY30	YEAR 6 FY31		
Water Resource Recovery (WRRFs)													
S - 000077.21	Parkway WRRF Facility & Electrical Upgrades	105,904	3,032	6,407	96,465	9,413	20,605	23,152	34,665	8,630	-	-	6-7
S - 000157.02	Western Branch WRRF Process Train Improve	142,856	27,151	9,604	105,993	17,662	41,010	21,354	11,902	10,723	3,342	108	6-19
S - 000096.14	Piscataway WRRF Facility Upgrades	195,358	180,452	11,634	3,272	3,272	-	-	-	-	-	-	6-11
	CATEGORY SUBTOTAL	**444,118**	**210,635**	**27,645**	**205,730**	**30,347**	**61,615**	**44,506**	**46,567**	**19,353**	**3,342**	**108**	
Wastewater Collection (Sewer and Pump Stations)													
S - 000028.18	Konterra Town Center East Sewer	9,063	4,853	-	4,210	4,210	-	-	-	-	-	-	6-2
S - 000028.20	Pumpkin Hill WWPS & FM	7,971	3,750	1,426	2,795	2,484	311	-	-	-	-	-	6-3
S - 000068.02	Carsondale WWPS & FM	8,736	476	710	7,550	1,136	5,461	953	-	-	-	-	6-4
S - 000075.23	Brandywine Woods WWPS & FM	3,859	-	320	3,539	1,369	1,271	735	164	-	-	-	6-6
S - 000087.19	Horsepen WWPS & FM	32,620	7,942	5,699	18,979	1,594	4,763	6,328	6,294	-	-	-	6-8
S - 000087.20	Freeway Airport WWPS & FM	3,876	2	320	3,554	1,377	1,280	737	160	-	-	-	6-9
S - 000089.26	Colmar Manor WWPS & FM	5,715	597	230	4,888	103	163	1,891	2,300	431	-	-	6-10
S - 000113.13	Forest Heights WWPS & FM	10,405	816	2,438	7,151	2,183	477	2,245	2,246	-	-	-	6-12
S - 000118.10	Viva White Oak Sewer Augmentation	1,253	-	-	1,253	501	313	189	125	63	62	-	6-13
S - 000131.05	Pleasant Valley Sewer Main, Part 2	1,059	-	254	805	501	207	97	-	-	-	-	6-14
S - 000131.07	Pleasant Valley Sewer Main, Part 1	2,095	-	590	1,505	1,228	277	-	-	-	-	-	6-15
S - 000131.11	Calm Retreat Sewer Main	1,011	860	151	-	-	-	-	-	-	-	-	6-16
S - 000131.12	Swan Creek WWPS & FM	15,009	9,337	550	5,122	1,668	3,335	119	-	-	-	-	6-17
S - 000131.14	National View Sewer Main	868	-	693	175	175	-	-	-	-	-	-	6-18
	CATEGORY SUBTOTAL	**103,540**	**28,633**	**13,381**	**61,526**	**18,529**	**17,858**	**13,294**	**11,289**	**494**	**62**	**-**	
Interjurisdictional Agreements (Blue Plains, Mattawoman)													
S - 000075.21	Mattawoman WWTP Upgrades	50,295	-	6,214	31,638	4,660	8,263	8,390	5,064	2,093	3,168	12,443	6-5
	CATEGORY SUBTOTAL	**50,295**	**-**	**6,214**	**31,638**	**4,660**	**8,263**	**8,390**	**5,064**	**2,093**	**3,168**	**12,443**	
	Projects Pending Close-Out	612	612	-	-	-	-	-	-	-	-	-	6-20
	TOTALS	**598,565**	**239,880**	**47,240**	**298,894**	**53,536**	**87,736**	**66,190**	**62,920**	**21,940**	**6,572**	**12,551**	

Konterra Town Center East Sewer

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000028.18		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Northeast Branch Branch 08
Planning Areas	Northwestern Area PA 60

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	1,596	1,118		478	478						
Land											
Construction	6,918	3,735		3,183	3,183						
Other	549			549	549						
Total	**9,063**	**4,853**		**4,210**	**4,210**						

C. Funding Schedule (000's)

Contributions/Other	9,063	4,853		4,210	4,210						

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 14,000 feet of 15-inch to 24-inch diameter sewer main, 240 feet of 24-inch diameter steel sleeve for a 16-inch diameter water main (W-93.01), and 240 feet of 48-inch diameter steel sleeve for a 24-inch diameter sewer. The project serves the Konterra Town Center East development which is located in the area bound by Interstate 95, the Intercounty Connector, and Konterra Drive.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Letter of Findings DA4623Z07 (June 2009). LOF 1st Amendment (August 2013). LOF 2nd Amendment (October 2018). LOF 3rd Amendment (January 2023).

COST CHANGE

The cost change is based upon information provided by the developer.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. Design and construction will be performed by the developer under a System Extension Permit. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Prince George's County Government
Coordinating Projects: W - 000093.01 - Konterra Town Center East Water Main

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$440	
Debt Service		
Total Cost	$440	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

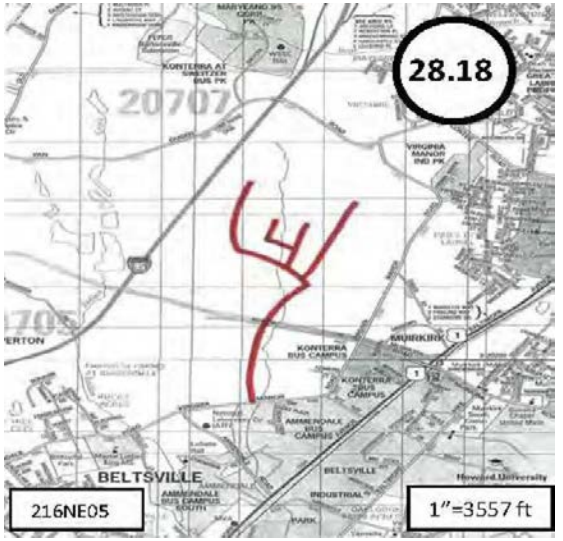
Date First in Program	FY'09
Date First Approved	FY'09
Initial Cost Estimate	833
Cost Estimate Last FY	8,339
Present Cost Estimate	9,063
Approved Request Last FY	2,693
Total Expense & Encumbrances	4,853
Approval Request Year 1	4,210

G. Status Information

Land Status	Not Applicable
Project Phase	Construction
Percent Complete	66 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	11,300
Capacity	8.11 MGD

H. Map



Pumpkin Hill WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000028.20		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Parkway 17
Planning Areas	South Laurel-Montpelier PA 62

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	1,561	1,132	240	189	169	20					
Land											
Construction	5,868	2,618	1,000	2,250	2,000	250					
Other	542		186	356	315	41					
Total	**7,971**	**3,750**	**1,426**	**2,795**	**2,484**	**311**					

C. Funding Schedule (000's)

WSSC Bonds	7,971	3,750	1,426	2,795	2,484	311					

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of the modifications to the Pumpkin Hill Wastewater Pumping Station and replacement of the Pumpkin Hill Force Main. The rehabilitation will replace both pumps, maintaining the pumping station's 2.11 MGD capacity. In addition, the existing 3,200 linear feet of 16-inch force main will be replaced.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties

JUSTIFICATION

The existing pumping station was put in service in 1974. The pumps were rebuilt in 1992 and have reached the end of their useful life. Replacement of the existing force main, constructed in 1965, is in accordance with an initiative to prioritize replacing force mains that have reached their anticipated life expectancy.

Hydraulics Analysis Memorandum (July 2019).

COST CHANGE

Pump station expenditure and schedule projections were revised based upon updated engineer's estimates.
Force main schedule and expenditure projections were revised based upon executed contract.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are a mix of actual bids and design level estimates and are expected to change based upon site conditions and design constraints.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$97	28
Debt Service	$210	28
Total Cost	$307	28
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'22
Date First Approved	FY'22
Initial Cost Estimate	4,496
Cost Estimate Last FY	8,001
Present Cost Estimate	7,971
Approved Request Last FY	2,668
Total Expense & Encumbrances	3,750
Approval Request Year 1	2,484

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Construction
Percent Complete	33 %
Estimated Completion Date	August 2026

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	2.11 MGD

H. Map

MAP NOT APPLICABLE

Carsondale WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000068.02		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Beaverdam Branch 3
Planning Areas	Landover & Vicinity PA 72

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	1,668	476	617	575	205	260	110				
Land											
Construction	5,989			5,989	782	4,489	718				
Other	1,079		93	986	149	712	125				
Total	**8,736**	**476**	**710**	**7,550**	**1,136**	**5,461**	**953**				

C. Funding Schedule (000's)

WSSC Bonds	8,736	476	710	7,550	1,136	5,461	953				

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of the modifications to the Carsondale Wastewater Pumping Station and replacement of the Carsondale Force Main. The rehabilitation will replace both pumps, maintaining the pumping station's 0.6 MGD capacity. The existing 3,000 linear feet of 8-inch force main will be replaced. In addition, replacement of all electrical components, including the generator, replacement of the HVAC system, general upgrades to the pump station building and grounds as needed, and the addition of a restroom are included.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life

JUSTIFICATION

The existing pumping station and force main were built in 1960. In 1989 the pump station and meter vault were modified to the current configuration and have reached the end of their useful life. Replacement of the existing force main is in accordance with an initiative to prioritize replacing force mains that have reached their anticipated life expectancy.

Hydraulics Analysis Memorandum (July 2019).

COST CHANGE

Costs have increased due to required expansion of the pump station building and changes in the force main alignment.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are planning level estimates and are expected to change based upon site conditions and design constraints. Planning work for the upgrades began in FY'21 under ESP S-642.25, Carsondale WWPS Upgrades with Forcemain.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$471	29
Total Cost	$471	29
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	5,645
Cost Estimate Last FY	6,324
Present Cost Estimate	8,736
Approved Request Last FY	1,898
Total Expense & Encumbrances	476
Approval Request Year 1	1,136

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Design
Percent Complete	10 %
Estimated Completion Date	December 2027

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	0.6 MGD

H. Map

MAP NOT APPLICABLE

Mattawoman WWTP Upgrades

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000075.21		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Mattawoman 21
Planning Areas	Accokeek PA 83; Brandywine & Vicinity PA 85A; Cedarville &

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land											
Construction	49,797		6,152	31,325	4,614	8,181	8,307	5,014	2,072	3,137	12,320
Other	498		62	313	46	82	83	50	21	31	123
Total	**50,295**		**6,214**	**31,638**	**4,660**	**8,263**	**8,390**	**5,064**	**2,093**	**3,168**	**12,443**

C. Funding Schedule (000's)

WSSC Bonds	50,295		6,214	31,638	4,660	8,263	8,390	5,064	2,093	3,168	12,443

D. Description & Justification

DESCRIPTION

This project provides for WSSC Water's share of the evaluation, design, and construction of capital projects to upgrade and repair Charles County's Mattawoman Interceptor and WWTP. There are 13 Charles County capital program projects covered by the WSSC Water capital project. Current projects with significant spending in FY 2026 include SCADA/plant automation; electrical system replacement; in-plant water system improvement; clarifier and thickener upgrades; belt filter press replacement Ph II; effluent filter improvements; upgrades to UV disinfection; upgrades to the headworks facilities; and projects to improve performance of various processes and plant facilities.

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees; Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life

JUSTIFICATION

Prior evaluations of equipment and structural facilities concluded the need existed for various upgrade, repair, and replacement projects to meet treatment requirements under the NPDES permit. A comprehensive facility master plan of the Mattawoman WWTP was substantially completed in FY 2022 and the data and conclusions from this evaluation identified substantial upgrades to facilities and processes to reliably and safely treat wastewater to meet the NPDES permit.

The cost sharing arrangements between WSSC Water and Charles County are covered under an agreement dated October 22, 1980 and as amended by formal addendums (2004 and 2022).

COST CHANGE

The schedule and expenditure projections were updated to reflect the latest estimates available from Charles County for joint-use projects in their Capital Improvement Program. Expenditure projections have increased due to major upgrades and rehabilitation to existing facilities at the Mattawoman WWTP. Charles County is planning major upgrades to the treatment plant and due to the scope, scale and complexity, this CIP may change as more information is available.

OTHER

The project scope has remained the same. Under the terms of the 1980 Agreement with Charles County, WSSC Water has the use of 3.0 MGD of the WWTP's 20 mgd of total capacity and pays a proportionate share of the capital expenses. Beginning in FY 2007, the total plant capacity increased to 20.0 MGD, and WSSC Water's proportionate cost share was revised to 15% under the terms of Agreement Addendum No.1. Given the open-ended nature of the Mattawoman projects, this PDF does not fully reflect the total project costs. These projects are, in fact, expected to continue indefinitely. As new sub-projects are added to the Mattawoman facility plan, the associated costs will be added to this project.

COORDINATION

Coordinating Agencies: Charles County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$2,002	
Total Cost	$2,002	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'08
Date First Approved	FY'08
Initial Cost Estimate	760
Cost Estimate Last FY	57,057
Present Cost Estimate	50,295
Approved Request Last FY	6,214
Total Expense & Encumbrances	
Approval Request Year 1	4,660

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	3.0 / 20.0 MGD

H. Map

MAP NOT AVAILABLE

Brandywine Woods WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000075.23		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Mattawoman 21; Patuxent South 22
Planning Areas	Brandywine & Vicinity PA 85A

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	808		278	530	307	112	83	28			
Land											
Construction	2,547			2,547	883	993	556	115			
Other	504		42	462	179	166	96	21			
Total	**3,859**		**320**	**3,539**	**1,369**	**1,271**	**735**	**164**			

C. Funding Schedule (000's)

Contributions/Other	3,859		320	3,539	1,369	1,271	735	164			

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a 0.28 MGD wastewater pumping station and 1,160 feet of force main to serve the Brandywine Woods property.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Brandywine Woods Hydraulic Planning Analysis (June 2021).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$35	
Debt Service		
Total Cost	$35	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	3,515
Cost Estimate Last FY	3,886
Present Cost Estimate	3,859
Approved Request Last FY	1,369
Total Expense & Encumbrances	
Approval Request Year 1	1,369

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	0 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	700
Capacity	0.28 MGD

H. Map

Parkway WRRF Facility & Electrical Upgrades

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000077.21		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Parkway 17
Planning Areas	South Laurel-Montpelier PA 62

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	11,652	3,032	1,869	6,751	1,968	1,901	1,260	649	973		
Land											
Construction	89,351		4,233	85,118	7,000	17,722	20,787	32,364	7,245		
Other	4,901		305	4,596	445	982	1,105	1,652	412		
Total	**105,904**	**3,032**	**6,407**	**96,465**	**9,413**	**20,605**	**23,152**	**34,665**	**8,630**		

C. Funding Schedule (000's)

WSSC Bonds	105,904	3,032	6,407	96,465	9,413	20,605	23,152	34,665	8,630		

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of improvements and modernizations at the Parkway WRRF required for electrical upgrades to the transformers, switchgears, blowers, and emergency generator; effluent channel rehabilitation; plant water building upgrades; biosolids air compressors and influent pump station replacement; and floodplain vulnerabilities due to climate change.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Employee Safety: This project includes components that help protect the health and safety of employees

JUSTIFICATION

The Parkway WRRF systems were originally constructed in the 1970s. Much of the equipment has exceeded its useful life, replacement parts are obsolete, and repair/maintenance represents a safety risk. There is an increasing risk of critical system failure and prolonged outage recovery. This replacement, rehabilitation, and upgrade work was recommended as part of WSSC Water's Asset Management Program.

COST CHANGE

The schedule and expenditure projections have been updated to reflect updated engineer's estimates.

OTHER

The project scope is inclusive of several system upgrades and climate resiliency structural updates. The schedule and expenditure projections shown in Block B above are preliminary design level estimates and are expected to change based upon site conditions and design constraints.

COORDINATION

Coordinating Agencies: Anne Arundel County; Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland Historical Trust; Maryland-National Capital Park & Planning Commission; Prince George's County Government; U.S. Army Corps of Engineers; U.S. Fish and Wildlife Service
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$5,986	31
Total Cost	$5,986	31
Impact on Water and Sewer Rate	$0.01	31

F. Approval and Expenditure Data (000's)

Date First in Program	FY'22
Date First Approved	FY'22
Initial Cost Estimate	11,066
Cost Estimate Last FY	46,718
Present Cost Estimate	105,904
Approved Request Last FY	8,635
Total Expense & Encumbrances	3,032
Approval Request Year 1	9,413

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Design
Percent Complete	15 %
Estimated Completion Date	December 2029

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

Horsepen WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000087.19		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Horsepen 19
Planning Areas	Bowie & Vicinity PA 71A

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	3,989	2,391	1,020	578	423	62	62	31			
Land	27	27									
Construction	26,356	5,524	4,160	16,672	1,025	4,267	5,690	5,690			
Other	2,248		519	1,729	146	434	576	573			
Total	**32,620**	**7,942**	**5,699**	**18,979**	**1,594**	**4,763**	**6,328**	**6,294**			

C. Funding Schedule (000's)

WSSC Bonds	3,262	794	569	1,899	160	477	633	629			
SDC	29,358	7,148	5,130	17,080	1,434	4,286	5,695	5,665			

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of the modifications to the Horsepen Wastewater Pumping Station and replacement of the Horsepen Force Main. The rehabilitation will increase the pumping station's capacity from 4.22 MGD to 8.40 MGD. In addition, the approximately 21,500-foot force main will be relocated and upsized from 18-inch to 24-inch diameter to accommodate the additional flow.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand

JUSTIFICATION

Peak flow rates experienced at the station have exceeded the station's safe capacity; the projected peak flow conditions have increased to 8.40 MGD. Additionally, the existing pumping station equipment is over 30 years old and has reached the end of its useful life. The replacement of the force main is critical due to its age of service and location within environmentally sensitive areas. Breaks occurred along the force main in 2011, 2012, 2013, and 2018.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are a mix of actual bids and design level estimates and are expected to change based upon site conditions and design constraints. Planning work for the pump station began in FY'18 under ESP S-640.02, Horsepen WWPS Reliable Capacity Expansion.

COORDINATION

Coordinating Agencies: City of Bowie; Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$117	30
Total Cost	$117	30
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'22
Date First Approved	FY'22
Initial Cost Estimate	35,349
Cost Estimate Last FY	32,544
Present Cost Estimate	32,620
Approved Request Last FY	2,481
Total Expense & Encumbrances	7,942
Approval Request Year 1	1,594

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Design
Percent Complete	60 %
Estimated Completion Date	June 2029

Growth	90%
System Improvement	10%
Environmental Regulation	
Population Served	
Capacity	8.40 MGD

H. Map

MAP NOT APPLICABLE

Freeway Airport WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000087.20		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Western Branch 14
Planning Areas	Mitchellville & Vicinity PA 74A

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	810	2	278	530	307	111	84	28			
Land											
Construction	2,560			2,560	890	1,002	557	111			
Other	506		42	464	180	167	96	21			
Total	**3,876**	**2**	**320**	**3,554**	**1,377**	**1,280**	**737**	**160**			

C. Funding Schedule (000's)

Contributions/Other	3,876	2	320	3,554	1,377	1,280	737	160			

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 3,600 feet of force main and a new wastewater pumping station to provide service to the Freeway Airport subdivision.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Freeway Airport Hydraulic Planning Analysis (May 2021).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$109	
Debt Service		
Total Cost	$109	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	3,533
Cost Estimate Last FY	3,954
Present Cost Estimate	3,876
Approved Request Last FY	1,377
Total Expense & Encumbrances	2
Approval Request Year 1	1,377

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	0 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	1,600
Capacity	0.5 MGD

H. Map

Colmar Manor WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000089.26		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Lower Anacostia 9
Planning Areas	Hyattsville-Riverdale-Mount Rainier PA 68

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	1,047	597	200	250	89	142	19				
Land											
Construction	4,000			4,000			1,625	2,000	375		
Other	668		30	638	14	21	247	300	56		
Total	**5,715**	**597**	**230**	**4,888**	**103**	**163**	**1,891**	**2,300**	**431**		

C. Funding Schedule (000's)

WSSC Bonds	5,715	597	230	4,888	103	163	1,891	2,300	431		

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and rehabilitation of a 0.799 MGD wastewater pumping station and 726 linear feet of force main.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; System Reliability: This project will improve service reliability through fewer and shorter service interruptions

JUSTIFICATION

The existing pumping station and force main were installed in 1956 and have reached the end of their useful lives. The station is outdated and could be considered "piece-meal" due to a number of in-house modifications through the decades. Replacement of the existing force main is in accordance with an initiative to prioritize replacing force mains that have reached their anticipated life expectancy. This upgrade work was recommended as part of WSSC Water's Asset Management Program (CNPV #189).

COST CHANGE

The schedule and expenditure projections were revised based upon updated engineer's estimates.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are preliminary planning level estimates and are expected to change based upon site conditions and design constraints. Planning work began in FY'21 under ESP S-636.75, Colmar Manor WWPS Upgrade with Forcemain.

COORDINATION

Coordinating Agencies: Maryland-National Capital Park & Planning Commission; National Park Service; Prince George's County Government; Town of Colmar Manor
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$300	31
Total Cost	$300	31
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	6,567
Cost Estimate Last FY	7,574
Present Cost Estimate	5,715
Approved Request Last FY	256
Total Expense & Encumbrances	597
Approval Request Year 1	103

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	30 %
Estimated Completion Date	September 2029

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	0.799 MGD

H. Map

Piscataway WRRF Facility Upgrades

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000096.14		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Piscataway Creek 4
Planning Areas	Accokeek PA 83

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	23,957	22,725	1,080	152	152						
Land											
Construction	170,692	157,727	10,000	2,965	2,965						
Other	709		554	155	155						
Total	**195,358**	**180,452**	**11,634**	**3,272**	**3,272**						

C. Funding Schedule (000's)

WSSC Bonds	195,358	180,452	11,634	3,272	3,272						

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of improvements at the Piscataway WRRF required to prevent plant overflows or permit violations which can occur during significant rainfall events. The work will remove bottlenecks within the plant process trains, address the physical capacity of the system, and rehabilitate existing equipment that has reached its expected service life, ensuring the ability of the plant to achieve its permit-required level of service.

BENEFIT

System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand; Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties

JUSTIFICATION

In the Asset Management Plan the condition assessment process identified several areas of concern within the plant process trains that could potentially result in capacity or level of service failures during significant rainfall events. The Facility Plan provided a more detailed study that included the development of a plant-wide hydraulic and biological process model, CCTV inspection of buried piping, analysis of soil borings, and Level 3 Condition Assessment of electrical systems. Projects within the Facility Plan were justified and prioritized using WSSC Water's Asset Management Strategy guidelines, based on life cycle costs, business risk exposure, and needs prioritization.
Piscataway WRRF Asset Management Plan, GHD, Inc. (March 2011); Piscataway WRRF Facility Plan, AECOM (January 2014); Wastewater Treatment System Asset Management Plan (December 2016).

COST CHANGE

The expenditure projections were revised based upon work under contract.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are actual bids and may change based upon site conditions and design revisions. The Asset Management Division has determined the priority of the recommended projects.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Prince George's County Department of Environmental Resources; Prince George's County Government; U.S. Army Corps of Engineers
Coordinating Projects: A - 000103.00 - Energy Performance Program; S - 000103.02 - Piscataway Bioenergy

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$211	27
Total Cost	$211	27
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'12
Date First Approved	FY'12
Initial Cost Estimate	66,396
Cost Estimate Last FY	197,209
Present Cost Estimate	195,358
Approved Request Last FY	14,984
Total Expense & Encumbrances	180,452
Approval Request Year 1	3,272

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Construction
Percent Complete	85 %
Estimated Completion Date	June 2026

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	30 MGD

H. Map

MAP NOT AVAILABLE

Forest Heights WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000113.13		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Oxon Run 18
Planning Areas	The Heights PA 76A

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	2,227	816	385	1,026	161	415	225	225			
Land											
Construction	6,928		1,736	5,192	1,737		1,727	1,728			
Other	1,250		317	933	285	62	293	293			
Total	**10,405**	**816**	**2,438**	**7,151**	**2,183**	**477**	**2,245**	**2,246**			

C. Funding Schedule (000's)

WSSC Bonds	1,872	147	438	1,287	393	86	404	404			
SDC	8,533	669	2,000	5,864	1,790	391	1,841	1,842			

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a 2.48 MGD wastewater pumping station and approximately 1,940 feet of force main.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; System Capacity: This project will enhance existing infrastructure by building additional capacity in order to meet existing and/or future demand

JUSTIFICATION

The existing pumping station and 14-inch diameter cast iron force main were built in 1946 and have reached the end of their useful life. In addition, replacement parts are unavailable since the equipment is obsolete. Replacement of the existing force main is in accordance with an initiative to prioritize replacing force mains that have reached their anticipated life expectancy. This upgrade work was recommended as part of WSSC Water's Asset Management Program (CNPV #192).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are preliminary planning level estimates and are expected to change based upon site conditions and design constraints. Planning work began in FY'21 under ESP S-650.25, Forest Heights WWPS Upgrades/Improvements. Future land costs are included in project S-203.00.

COORDINATION

Coordinating Agencies: Maryland Department of Natural Resources; Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Prince George's County Government; Town of Forest Heights
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$79	30
Total Cost	$79	30
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	8,958
Cost Estimate Last FY	10,169
Present Cost Estimate	10,405
Approved Request Last FY	2,358
Total Expense & Encumbrances	816
Approval Request Year 1	2,183

G. Status Information

Land Status	Land and R/W to be acquired
Project Phase	Design
Percent Complete	10 %
Estimated Completion Date	June 2029

Growth	82%
System Improvement	18%
Environmental Regulation	
Population Served	
Capacity	2.48 MGD

H. Map

Viva White Oak Sewer Augmentation

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000118.10		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Paint Branch 2
Planning Areas	Colesville-White Oak & Vicinity PA 33; Fairland-Beltsville (PG

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	218			218	87	54	33	22	11	11	
Land											
Construction	872			872	349	218	131	87	44	43	
Other	163			163	65	41	25	16	8	8	
Total	**1,253**			**1,253**	**501**	**313**	**189**	**125**	**63**	**62**	

C. Funding Schedule (000's)

Contributions/Other	1,253			1,253	501	313	189	125	63	62	

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 2,500 feet of 24-inch and 30-inch diameter sewer mains. These sewers will replace existing 21-inch and 27-inch diameter sewer mains in the Paint Branch Basin downstream of the West Farm Creek Tributary and terminate at Powder Mill Road.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Viva White Oak Hydraulic Planning Analysis (July 2019) amended on 8/16/2022.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Prince George's County Department of Environmental Resources; Prince George's County Department of Permitting Inspection and Enforcement
Coordinating Projects: S - 000118.09 - Viva White Oak Sewer Main; W - 000113.21 - Viva White Oak Water Main

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service		
Total Cost		
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

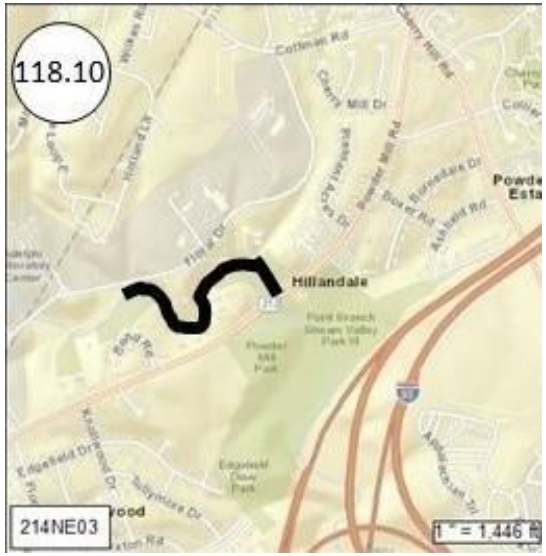
Date First in Program	FY'22
Date First Approved	FY'22
Initial Cost Estimate	1,080
Cost Estimate Last FY	1,253
Present Cost Estimate	1,253
Approved Request Last FY	501
Total Expense & Encumbrances	
Approval Request Year 1	501

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	20 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	11.5 MGD

H. Map



Pleasant Valley Sewer Main, Part 2

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000131.05		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Piscataway Creek 4
Planning Areas	Piscataway & Vicinity PA 84

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	163		76	87	68	12	7				
Land											
Construction	758		145	613	368	168	77				
Other	138		33	105	65	27	13				
Total	**1,059**		**254**	**805**	**501**	**207**	**97**				

C. Funding Schedule (000's)

Contributions/Other	1,059		254	805	501	207	97				

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 2,750 feet of 21-inch and 24-inch diameter sewer main to provide service to the Estates of Pleasant Valley and the Ridges III Subdivisions.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Saddle Creek Hydraulic Planning Analysis (Approved April 2022).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Prince George's County Government
Coordinating Projects: S - 000131.07 - Pleasant Valley Sewer Main, Part 1

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$84	
Debt Service		
Total Cost	$84	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

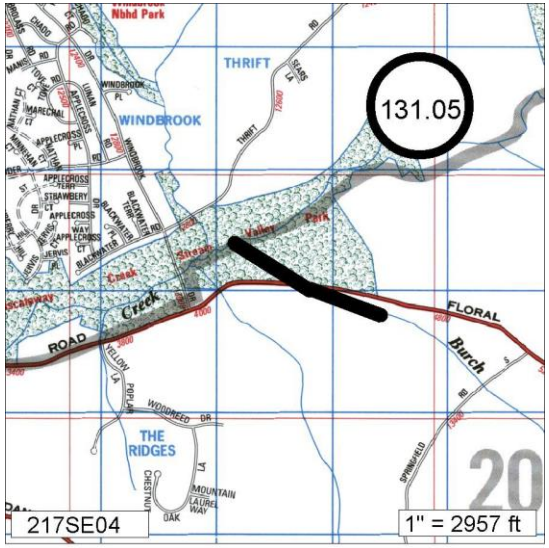
Date First in Program	FY'05
Date First Approved	FY'05
Initial Cost Estimate	586
Cost Estimate Last FY	1,059
Present Cost Estimate	1,059
Approved Request Last FY	501
Total Expense & Encumbrances	
Approval Request Year 1	501

G. Status Information

Land Status	Not Applicable
Project Phase	Design
Percent Complete	60 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	2,000
Capacity	4.06 MGD

H. Map



Pleasant Valley Sewer Main, Part 1

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000131.07		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Piscataway Creek 4
Planning Areas	Accokeek PA 83

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	360		196	164	135	29					
Land											
Construction	1,462		317	1,145	933	212					
Other	273		77	196	160	36					
Total	**2,095**		**590**	**1,505**	**1,228**	**277**					

C. Funding Schedule (000's)

Contributions/Other	2,095		590	1,505	1,228	277					

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 10,000 feet of 15-inch, 18-inch and 21-inch diameter sewer main to serve the Saddle Creek subdivision.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Saddle Creek Hydraulic Planning Analysis (Approved April 2022).

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland-National Capital Park & Planning Commission; Potomac Electric Power Company; Prince George's County Government
Coordinating Projects: S - 000131.05 - Pleasant Valley Sewer Main, Part 2

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$304	
Debt Service		
Total Cost	$304	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

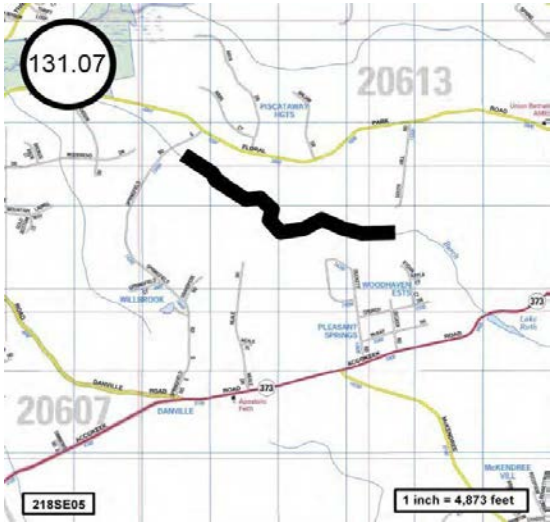
Date First in Program	FY'10
Date First Approved	FY'10
Initial Cost Estimate	1,303
Cost Estimate Last FY	2,159
Present Cost Estimate	2,095
Approved Request Last FY	1,228
Total Expense & Encumbrances	
Approval Request Year 1	1,228

G. Status Information

Land Status	Not Applicable
Project Phase	Design
Percent Complete	80 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	2,800
Capacity	2.0 to 2.7 MGD

H. Map



Calm Retreat Sewer Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000131.11		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Mattawoman 21
Planning Areas	Brandywine & Vicinity PA 85A

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	347	337	10								
Land											
Construction	644	523	121								
Other	20		20								
Total	**1,011**	**860**	**151**								

C. Funding Schedule (000's)

Contributions/Other	1,011	860	151								

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of 2,914 feet of 15-inch diameter sewer main to serve the Calm Retreat Subdivision.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

Milestone Letter of Findings (May 2020). Amended Letter of Findings #2 (May 2021). Amended Letter of findings #3 5/26/2023. DA6662A19 construction was completed and release for service on 12/7/2023. DA6662B19 is currently in construction. SEP permit was issued on 10/8/2023.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. Design and construction will be performed by the developer under a System Extension Permit. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Maryland-National Capital Park & Planning Commission; Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$88	
Debt Service		
Total Cost	$88	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

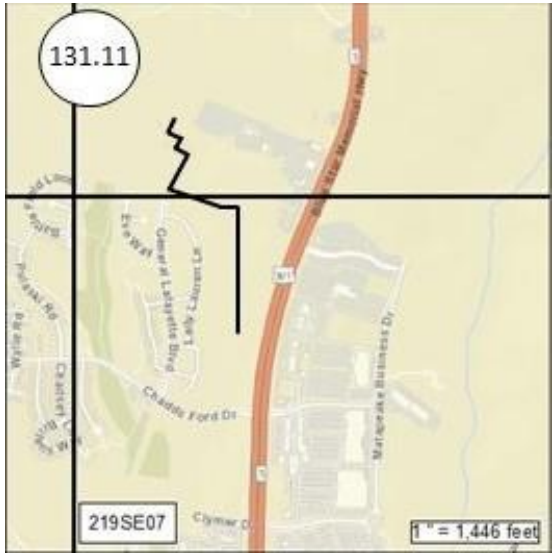
Date First in Program	FY'22
Date First Approved	FY'22
Initial Cost Estimate	981
Cost Estimate Last FY	935
Present Cost Estimate	1,011
Approved Request Last FY	108
Total Expense & Encumbrances	860
Approval Request Year 1	

G. Status Information

Land Status	Not Applicable
Project Phase	Construction
Percent Complete	75 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	

H. Map



Swan Creek WWPS & FM

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000131.12		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Piscataway Creek 4
Planning Areas	South Potomac Sector PA 80

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	2,664	1,952	500	212	53	106	53				
Land											
Construction	11,842	7,385		4,457	1,468	2,934	55				
Other	503		50	453	147	295	11				
Total	**15,009**	**9,337**	**550**	**5,122**	**1,668**	**3,335**	**119**				

C. Funding Schedule (000's)

WSSC Bonds	15,009	9,337	550	5,122	1,668	3,335	119				

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of the modifications to the existing 3.90 MGD wastewater pumping station and replacement of approximately 5,500 feet of existing force main.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties

JUSTIFICATION

The existing pumping station and 24-inch diameter PCCP force main were built in 1966 and have reached the end of their useful life. Replacement parts are obsolete and unavailable.

COST CHANGE

Not applicable.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are a mix of construction costs and design level estimates and are expected to change based upon site conditions and design constraints. The WWPS costs are based on actual construction costs as the WWPS construction has been completed. The force main replacement costs are based on design level estimates. The force main work is estimated to be completed in FY 2028. Early work on Swan Creek WWPS Upgrades began in FY 2016 under ESP S-653.01, Swan Creek Facility Evaluation and Pump Replacement.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Maryland State Highway Administration; Maryland-National Capital Park & Planning Commission; Prince George's County Department of Public Works and Transportation; Prince George's County Department of Permitting Inspection and Enforcement
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$314	30
Total Cost	$314	30
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

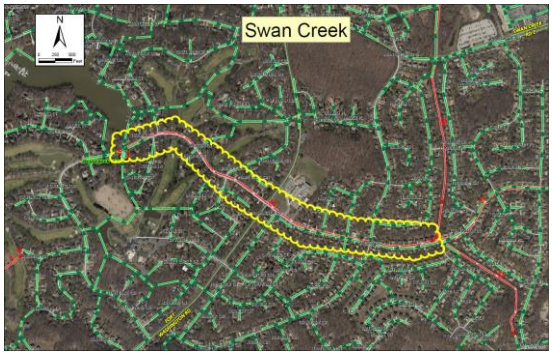
Date First in Program	FY'22
Date First Approved	FY'22
Initial Cost Estimate	12,186
Cost Estimate Last FY	14,858
Present Cost Estimate	15,009
Approved Request Last FY	1,618
Total Expense & Encumbrances	9,337
Approval Request Year 1	1,668

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Design
Percent Complete	30 %
Estimated Completion Date	December 2028

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	3.90 MGD

H. Map



National View Sewer Main

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000131.14		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Oxon Run 18
Planning Areas	The Heights PA 76A

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	126		100	26	26						
Land											
Construction	629		503	126	126						
Other	113		90	23	23						
Total	**868**		**693**	**175**	**175**						

C. Funding Schedule (000's)

Contributions/Other	868		693	175	175						

D. Description & Justification

DESCRIPTION

This project provides the planning, design, and construction of 2,000 feet of 15-inch sewer to serve the National View project.

BENEFIT

Economic Development: This growth project supports the economic development goals of the Counties

JUSTIFICATION

National View Hydraulic Planning Analysis (January 2023).

COST CHANGE

Not applicable.

OTHER

The present project scope was developed for the FY' 2025 CIP and has an estimated total cost of $1,137,000. The schedule and expenditure projections shown in Block B above are based upon information provided by the developer. The estimated completion date is developer dependent. No WSSC Water rate supported debt will be used for this project.

COORDINATION

Coordinating Agencies: Prince George's County Department of Environmental Resources; Prince George's County Department of Public Works and Transportation; Prince George's County Department of Permitting Inspection and Enforcement
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance	$61	
Debt Service		
Total Cost	$61	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'25
Date First Approved	FY'25
Initial Cost Estimate	1,137
Cost Estimate Last FY	1,137
Present Cost Estimate	868
Approved Request Last FY	175
Total Expense & Encumbrances	
Approval Request Year 1	175

G. Status Information

Land Status	Not Applicable
Project Phase	Planning
Percent Complete	100 %
Estimated Completion Date	Developer Dependent

Growth	100%
System Improvement	
Environmental Regulation	
Population Served	
Capacity	1.86 MGD

H. Map

MAP NOT AVAILABLE

Western Branch WRRF Process Train Improvements

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000157.02		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Western Branch 14
Planning Areas	Upper Marlboro & Vicinity PA 79

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	16,752	6,624	3,557	6,468	1,386	1,565	1,231	911	819	556	103
Land											
Construction	120,599	20,527	5,590	94,482	15,440	37,492	19,106	10,424	9,393	2,627	
Other	5,505		457	5,043	836	1,953	1,017	567	511	159	5
Total	**142,856**	**27,151**	**9,604**	**105,993**	**17,662**	**41,010**	**21,354**	**11,902**	**10,723**	**3,342**	**108**

C. Funding Schedule (000's)

WSSC Bonds	142,856	27,151	9,604	105,993	17,662	41,010	21,354	11,902	10,723	3,342	108

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of improvements at the Western Branch WRRF required to replace the influent flow splitter box, main electrical substation, and process treatment equipment at the end of its useful life; to rehabilitate aging concrete treatment structures and tertiary filters; to upgrade clarifier equipment, the denitrification treatment system, the potable water system, and the solids truck loading operations; and to provide back-up power capability for treatment reliability.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties; Employee Safety: This project includes components that help protect the health and safety of employees

JUSTIFICATION

The plant was originally built in the early 1970s. Weathering and corrosion of concrete structures and metal equipment require rehabilitation and replacement to extend the useful life and maintain safe access and operation of the process treatment reactors, clarifiers, and filters. Medium voltage electrical distribution equipment is at the end of its useful life, replacement parts are obsolete, and repair/maintenance represents a safety risk. Back-up power generators are being added to the plant to provide power reliability to maintain treatment operations during weather related power outages. The potable water well and distribution system is over 50 years old and requires replacement and upgrade. The denitrification treatment system is being upgraded to provide improved flow balancing and energy efficiency.

This replacement, rehabilitation, and upgrade work was recommended by various business case evaluations undertaken as part of WSSC Water's Asset Management Program.

COST CHANGE

The schedule and expenditure projections were revised based upon updated engineer's estimates. Added additional scope increased project cost.

OTHER

Additional project scope includes: Install high flow relief ports at the DNAS influent channel/reactor wall interface, Install high flow relief pipeline at the DNAS system, Add Hydrograv Adapt® system to the final clarifiers, Upgrade select replacement equipment materials to stainless steel. The schedule and expenditure projections shown in Block B above are a mix of construction cost, design, and planning level estimates and are expected to change based upon site conditions and design constraints. Early work began under multiple ESP projects.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$6,628	33
Total Cost	$6,628	33
Impact on Water and Sewer Rate	$0.01	33

F. Approval and Expenditure Data (000's)

Date First in Program	FY'20
Date First Approved	FY'20
Initial Cost Estimate	14,859
Cost Estimate Last FY	115,762
Present Cost Estimate	142,856
Approved Request Last FY	12,584
Total Expense & Encumbrances	27,151
Approval Request Year 1	17,662

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Design
Percent Complete	18 %
Estimated Completion Date	December 2031

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	30.6 MGD

H. Map

MAP NOT APPLICABLE

PENDING CLOSE-OUT PROJECT LISTING

PRINCE GEORGE' COUNTY SEWER PROJECTS

(ALL FIGURES IN THOUSANDS)

AGENCY NUMBER	PROJECT NAME	ESTIMATED TOTAL COST	EXPENDITURES THRU FY 24	ESTIMATED EXPENDITURES FY 25	REMARKS
S - 000027.08	Westphalia Town Center Sewer Main	612	612		Project expired due to 3 years of inactivity.
S - 000068.01	Landover Mall Redevelopment	-	-		Project expired due to 3 years of inactivity.
	TOTALS	612	612	-	

Section 7 - Information Only Projects

DATE: October 1, 2024
REVISED: March 1, 2025

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

INFORMATION ONLY PROJECTS

AGENCY NUMBER	PROJECT NAME	EST. TOTAL COST	EXPEND THRU 24	EST. EXPEND 25	TOTAL SIX YEARS	EXPENDITURE SCHEDULE						PAGE NUM
						YEAR 1 FY26	YEAR 2 FY27	YEAR 3 FY28	YEAR 4 FY29	YEAR 5 FY30	YEAR 6 FY31	
Water Treatment and Storage (WFPs, Reservoirs, Water Tanks)												
W - 000105.00	Water Storage Facility Rehabilitation Program	75,067	-	25,391	49,346	23,044	15,928	9,384	330	330	330	7-14
S - 000001.02	High Inflow and Infiltration Basin Rehabilitation	9,500	-	-	9,500	500	1,000	2,000	2,000	2,000	2,000	7-7
	CATEGORY SUBTOTAL	**84,567**	**-**	**25,391**	**58,846**	**23,544**	**16,928**	**11,384**	**2,330**	**2,330**	**2,330**	
Water Distribution (Water Mains and Pump Stations)												
W - 000001.00	Water Reconstruction Program	692,122	-	73,842	618,280	79,500	88,000	96,800	106,480	120,000	127,500	7-3
W - 000107.00	Specialty Valve Vault Rehabilitation Program	32,831	-	10,024	22,087	10,978	8,536	515	394	539	1,125	7-15
	CATEGORY SUBTOTAL	**724,953**	**-**	**83,866**	**640,367**	**90,478**	**96,536**	**97,315**	**106,874**	**120,539**	**128,625**	
Wastewater Collection (Sewer and Pump Stations)												
S - 000001.01	Sewer Reconstruction Program	379,341	0	43,047	336,294	51,637	54,362	55,383	56,335	58,306	60,271	7-5
	CATEGORY SUBTOTAL	**379,341**	**-**	**43,047**	**336,294**	**51,637**	**54,362**	**55,383**	**56,335**	**58,306**	**60,271**	
General Facilities (RGH, Depots, Laboratory, Buildings)												
A - 000100.01	Anacostia Depot Reconfiguration	67,110	2,458	12,075	52,577	23,822	28,755	-	-	-	-	7-8
A - 000101.04	Laboratory Division Building Expansion	42,821	33,428	2,480	6,913	2,288	4,625	-	-	-	-	7-9
A - 000101.06	Support Center Upgrades	43,410	1,830	8,085	33,495	9,548	4,890	4,999	4,778	4,941	4,339	7-11
	CATEGORY SUBTOTAL	**153,341**	**37,716**	**22,640**	**92,985**	**35,658**	**38,270**	**4,999**	**4,778**	**4,941**	**4,339**	
Innovation and Investment Priorities (Water Supply, Climate Action)												
A - 000103.00	Energy Performance Program	86,080	-	5,562	80,518	5,518	15,000	15,000	15,000	15,000	15,000	7-13
A - 000109.02	Lead Reduction Program	103,590	-	-	103,590	33,600	28,670	20,790	15,640	4,890	-	7-16
A - 000112.00	PFAS Management Strategy	256,500	-	-	256,500	-	21,000	22,000	70,000	72,500	71,000	7-18
	CATEGORY SUBTOTAL	**446,170**	**-**	**5,562**	**440,608**	**39,118**	**64,670**	**57,790**	**100,640**	**92,390**	**86,000**	
Mixed-use (ESP, Other Capital Programs, Land, Beltway)												
A - 000102.00	Engineering Support Program	275,000	20,000	30,000	225,000	25,000	40,000	40,000	40,000	40,000	40,000	7-12
A - 000110.00	Other Capital Programs	581,573	-	69,291	512,282	56,362	87,210	88,210	93,500	93,500	93,500	7-17
A - 000113.00	Master Planning and Facilities Planning and Investment	325,000	-	-	325,000	35,000	55,000	55,000	60,000	60,000	60,000	7-19
	CATEGORY SUBTOTAL	**1,181,573**	**20,000**	**99,291**	**1,062,282**	**116,362**	**182,210**	**183,210**	**193,500**	**193,500**	**193,500**	
	TOTALS	**2,969,945**	**57,716**	**279,797**	**2,631,382**	**356,797**	**452,976**	**410,081**	**464,457**	**472,006**	**475,065**	

WSSC WATER FYs 2026 - 2031 COMBINED PROGRAM

NEW PROJECT LISTING

(ALL FIGURES IN THOUSANDS)

AGENCY NUMBER	PROJECT NAME	TOTAL PROJECT COST	SIX YEAR PROGRAM COST	BUDGET YEAR COST	PAGE NUMBER
Montgomery County Water Projects					
W - 000003.04	Fraley Farm West Water Main	1,003	917	917	1-3
Information Only Projects					
A - 000109.02	Lead Reduction Program	103,590	103,590	33,600	7-16
A - 000112.00	PFAS Management Strategy	256,500	256,500	-	7-18
A - 000113.00	Master Planning and Facilities Planning and Investment	325,000	325,000	35,000	7-19
S - 000001.02	High Inflow and Infiltration Basin Rehabilitation	9,500	9,500	500	7-7
	TOTALS	696,596	696,424	70,934	

Water Reconstruction Program

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000001.00		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Bi-County
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	83,057		6,464	76,593	7,158	9,185	11,134	14,760	15,278	19,078	
Land											
Construction	517,235		58,816	458,419	62,423	67,196	72,263	76,265	88,728	91,544	
Other	91,830		8,562	83,268	9,919	11,619	13,403	15,455	15,994	16,878	
Total	**692,122**		**73,842**	**618,280**	**79,500**	**88,000**	**96,800**	**106,480**	**120,000**	**127,500**	

C. Funding Schedule (000's)

WSSC Bonds	678,122		71,842	606,280	77,500	86,000	94,800	104,480	118,000	125,500	
State Aid	14,000		2,000	12,000	2,000	2,000	2,000	2,000	2,000	2,000	

D. Description & Justification

DESCRIPTION

The purpose of this program is to renew and extend the useful life of water mains, house connections, and large water services. Portions of the water system are more than 80 years old. Bare cast iron mains, installed generally before 1965, permit the build-up of tuberculation which can reduce flow and cause discoloration at the customer's tap. Selected replacement is necessary to supply water in sufficient quantity, quality, and pressure for domestic use and firefighting. As the system ages, water main breaks are increasing. Selected mains are chronically breaking, and other mains are undersized for the current flow standards. Replacement and the addition of cathodic protection to these mains provides added value to the customer. Galvanized, copper, and cast-iron water mains, as well as all other water main appurtenances including meter and PRV vaults are replaced on an as needed basis when they have exceeded their useful life.

*EXPENDITURES FOR WATER RECONSTRUCTION ARE EXPECTED TO CONTINUE INDEFINITELY.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; System Reliability: This project will improve service reliability through fewer and shorter service interruptions; Water Quality: This project supports WSSC Water's mission to provide safe, clean water by improving the quality and/or safety of drinking water

JUSTIFICATION

The program's projected work units and expenditure levels for FY 2026 are as follows: design and construction of main replacement and associated water house connection renewals, 27 miles - $67.4M; cathodic protection - $.35M; design and construction of large water service replacements - $6.44M; emergency contracts at depots - $5.4M; pipe armoring - $0.52M. Note: The specific mix and type of water main reconstruction may vary in any given year depending on the nature and priority of the work to be addressed. The program level may be adjusted in future years based upon the results of the Asset Management Plan. Based upon the prioritization and recommendations in the FY 2025 Enterprise Asset Management Plan, the number of miles of water main replacement should begin to ramp back up by approximately 5 miles per year.

Flow studies, water system modeling, and field surveys are routinely conducted. The annual Buried Water Assets System Asset Management Plan identifies the business risk exposure of the water distribution system. FY 2025 Enterprise Asset Management Plan (May 2023).

COST CHANGE

Program costs reflect the latest expenditure and schedule estimates based on the recommendations from the FY 2025 Enterprise Asset Management Plan (May 2023).

OTHER

The water reconstruction program has been ongoing since 1979. Funding in the six-year program period is subject to Spending Affordability Guideline limits. WSSC Water has applied for low interest loans and grant funding for this program through MDE's Water Infrastructure Financing Administration's Drinking Water Revolving Loan Fund Program. The following work accomplishments through FY 2022 summarize the magnitude of the reconstruction effort: 2,012 miles rehabilitated or replaced; 378 large water service/meters replaced. It is anticipated water reconstruction activity will be a perpetual element of future

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$47,591	
Total Cost	$47,591	
Impact on Water and Sewer Rate	$0.10	

F. Approval and Expenditure Data (000's)

Date First in Program	
Date First Approved	
Initial Cost Estimate	
Cost Estimate Last FY	1,066,093
Present Cost Estimate	692,122
Approved Request Last FY	109,241
Total Expense & Encumbrances	
Approval Request Year 1	79,500

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

work programs.

COORDINATION

Coordinating Agencies: Local Community Civic Associations; Maryland Department of the Environment; Maryland State Highway Administration; Montgomery County Department of Public Works and Transportation; Montgomery County Government; Prince George's County Government; Prince George's County Department of Permitting Inspection and Enforcement
Coordinating Projects: A - 000109.02 - Lead Reduction Program; W - 000161.01 - Large Diameter Water Pipe & Large Valve Rehabilitation Program

Sewer Reconstruction Program

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000001.01		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Bi-County 30
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	32,815		4,982	27,833	5,239	4,417	4,526	4,394	4,548	4,709	
Land											
Construction	312,181		34,300	277,881	41,704	45,002	45,822	46,819	48,458	50,076	
Other	34,509		3,929	30,580	4,694	4,943	5,035	5,122	5,300	5,486	
Total	**379,505**		**43,211**	**336,294**	**51,637**	**54,362**	**55,383**	**56,335**	**58,306**	**60,271**	

C. Funding Schedule (000's)

WSSC Bonds	239,505		23,211	216,294	31,637	34,362	35,383	36,335	38,306	40,271	
State Aid	140,000		20,000	120,000	20,000	20,000	20,000	20,000	20,000	20,000	

D. Description & Justification

DESCRIPTION

This program provides for comprehensive sewer system rehabilitation in residential areas of sewer mains less than 15-inches in diameter and sewer house connections, addressing infiltration and inflow control, and exposed pipe problems. This program does not include any major capital projects (e.g. CIP size relief or replacement sewers). These are funded separately in the CIP.

*EXPENDITURES FOR SEWER RECONSTRUCTION ARE EXPECTED TO CONTINUE INDEFINITELY.

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees; Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties

JUSTIFICATION

The projected work units and expenditure levels for FY'26 are as follows: 25 miles of main and lateral design & construction - $36.02M; sewer house connection renewals - $9.62M; enhanced grouting - $2.6; emergency repairs - $2.3M. Note: The specific mix and type of sewer reconstruction may vary in any given year depending on identified system defects. Projections are based on historical experience with regards to timing of design and construction work and availability of authorized contractors.

Comprehensive Basin Studies, Sewer System Evaluation Surveys, Line Blockage Assessments, field surveys, closed-circuit TV inspections, and/or other activities investigating specific portions of the collection system. Annual Buried Wastewater Assets System Asset Management Plan. FY'25 Enterprise Asset Management Plan (May 2023).

COST CHANGE

Program costs reflect the latest schedule and expenditure estimates based upon the current plan for the completion of Phase 2 (Priority 2 and Priority 3) Consent Decree work and the recommendations from the Buried Wastewater Assets System Asset Management Plan.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above reflect the terms of the Sanitary Sewer Overflow Consent Decree between WSSC Water, Maryland Department of the Environment (MDE), and the EPA, entered into on December 7, 2005. WSSC Water has applied for low interest loans and grant funding through MDE's Water Infrastructure Financing Administration's Water Quality Revolving Loan Fund Program and grant funding from MDE's Bay Restoration Fund for portions of this program. The sewer reconstruction program was established in 1979. Some expenditures for grouting repairs are included in the Operating Budget. The following work accomplishments through FY'22 summarize the magnitude of this reconstruction effort: sewer main reconstruction, 570 miles; and sewer house connection renewals, 24,088. It is anticipated that sewer reconstruction activity will be a perpetual element of future work programs.

COORDINATION

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$13,275	
Total Cost	$13,275	
Impact on Water and Sewer Rate	$0.03	

F. Approval and Expenditure Data (000's)

Date First in Program	
Date First Approved	
Initial Cost Estimate	
Cost Estimate Last FY	534,990
Present Cost Estimate	379,505
Approved Request Last FY	73,569
Total Expense & Encumbrances	
Approval Request Year 1	51,637

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

Coordinating Agencies: Local Community Civic Associations; Maryland Department of the Environment; Maryland State Highway Administration; Montgomery County Department of Public Works and Transportation; Montgomery County Government; Prince George's County Government; Prince George's County Department of Permitting Inspection and Enforcement; U.S. Environmental Protection Agency, Region III
Coordinating Projects: S - 000001.02 - Hi-Influent Infiltration Basin Rehabilitation; S - 000170.09 - Trunk Sewer Reconstruction Program

High Inflow and Infiltration Basin Rehabilitation

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
S - 000001.02		Add

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	Bi-County 30
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land											
Construction	8,550			8,550	450	900	1,800	1,800	1,800	1,800	
Other	950			950	50	100	200	200	200	200	
Total	**9,500**			**9,500**	**500**	**1,000**	**2,000**	**2,000**	**2,000**	**2,000**	

C. Funding Schedule (000's)

WSSC Bonds	9,500			9,500	500	1,000	2,000	2,000	2,000	2,000	

D. Description & Justification

DESCRIPTION

This program aims to build upon the two existing sewer reconstruction programs (S-1.01 and S-170) by bridging the resources of the Pipeline Design Division, Utility Services, Planning, Production, and Asset Management together to provide an efficient and rapid response directed at addressing and better tracking the replacement and rehabilitation of critically aging and failing sewer system infrastructure posing a significant business risk to the Commission. The program is a focus driven approach employed to target sewer basins experiencing high Inflow/Infiltration (I/I) and alternative options for handling high (I/I) at facilities. The program prioritizes the planning, design, permitting, and construction processes to significantly reduce the extensive delivery times experienced under the two existing programs for mains of all sizes, sewer house connections and manholes, as well as, identifying and implementing alternative options to managing high (I/I).

JUSTIFICATION

Some sewer basins are experiencing high Inflow and Infiltration (I/I) that is putting an strain on treatment facilities during high rain events. Frequency of high flows has increases due to more frequent intense stores in the sewer basin. There is a need implement a wholistic approach to reduction and management of this I/I through the sewer collection and at facilities to reduce the peak flows at the facilities.

COST CHANGE

OTHER

COORDINATION

Coordinating Agencies: Local Community Civic Associations; Maryland Department of the Environment; Maryland State Highway Administration; Montgomery County Department of Public Works and Transportation; Montgomery County Government; Prince George's County Government; Prince George's County Department of Permitting Inspection and Enforcement; U.S. Environmental Protection Agency, Region III
Coordinating Projects: S - 000001.01 - Sewer Reconstruction Program; S - 000170.09 - Trunk Sewer Reconstruction Program

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service		
Total Cost		
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'26
Date First Approved	
Initial Cost Estimate	
Cost Estimate Last FY	
Present Cost Estimate	9,500
Approved Request Last FY	
Total Expense & Encumbrances	
Approval Request Year 1	500

G. Status Information

Land Status	
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

Anacostia Depot Reconfiguration

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
A - 000100.01		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Landover & Vicinity PA 72

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	4,242	1,671	1,500	1,071	685	386					
Land											
Construction	59,787	787	10,000	49,000	22,000	27,000					
Other	3,081		575	2,506	1,137	1,369					
Total	**67,110**	**2,458**	**12,075**	**52,577**	**23,822**	**28,755**					

C. Funding Schedule (000's)

WSSC Bonds	67,110	2,458	12,075	52,577	23,822	28,755					

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a reconfiguration of the Anacostia Depot to improve the efficiency of operations; to update to current building codes, regulations, and Americans with Disabilities Act (ADA) requirements; to improve the energy efficiency of the facilities; to address floodplain vulnerabilities due to climate change; and to replace assets that are at or beyond their useful lives.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Workplace Optimization: This project supports WSSC Water's commitment to provide a productive work environment for its employees and secure its critical infrastructure; Employee Safety: This project includes components that help protect the health and safety of employees

JUSTIFICATION

The Anacostia Depot is the largest of WSSC Water's four depots that support water and sewer field operations. The existing buildings were generally constructed in the 1970s. The depot houses several critical functions for WSSC Water, including the workshop and administrative space for the Facility Maintenance Division, the water meter testing and hydrant shop, the heavy equipment shop, the Fleet Services Division building and one of the fleet garages, and the main warehouse. The depot is constrained by CSX railroad tracks that traverse the site, leading to operational inefficiencies when vehicles and staff must wait for trains to pass. The site also has floodplain vulnerabilities due to the effects of climate change.

A facility-wide condition assessment was undertaken in June 2019 to identify deficiencies in the existing facilities and provide a recommended course of action to remedy the issues. The study identified a significant number of deficiencies, including electrical, mechanical, accessibility, and safety deficiencies. The study examined potential remedies, including renovation and new build scenarios. A facility master plan was subsequently commissioned to provide a more detailed analysis of the potential renovation and new build alternatives, which was finalized in June 2021. Anacostia Depot Facility Condition Assessment, Louis Berger (July 2020); Anacostia Depot Master Plan, Samaha Associates (June 2021).

COST CHANGE

The schedule and expenditure projections have been updated to reflect the revised scope of the project.

OTHER

The project scope has been revised to include mechanical equipment upgrades at the warehouse and the heavy equipment shop and to remove the replacement of the warehouse's roof. The schedule and expenditure projections shown in Block B above are preliminary planning level estimates and are expected to change based upon site conditions and design constraints. Planning work began under ESP A-859.11, Anacostia Depot Reconfiguration.

COORDINATION

Coordinating Agencies: Montgomery County Government; Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$4,044	27
Total Cost	$4,044	27
Impact on Water and Sewer Rate	$0.01	27

F. Approval and Expenditure Data (000's)

Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	42,838
Cost Estimate Last FY	57,668
Present Cost Estimate	67,110
Approved Request Last FY	27,090
Total Expense & Encumbrances	2,458
Approval Request Year 1	23,822

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Design
Percent Complete	30 %
Estimated Completion Date	May 2026

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

Laboratory Division Building Expansion

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
A - 000101.04		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Fairland (MC) PA 34

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	5,703	4,716	818	169	104	65					
Land											
Construction	36,264	28,712	1,436	6,116	1,976	4,140					
Other	854		226	628	208	420					
Total	**42,821**	**33,428**	**2,480**	**6,913**	**2,288**	**4,625**					

C. Funding Schedule (000's)

WSSC Bonds	42,821	33,428	2,480	6,913	2,288	4,625					

D. Description & Justification

DESCRIPTION

This project provides for the planning, design, and construction of a 19,720 square-foot expansion to the Consolidated Laboratory Facility and replacement of equipment in the existing building to accommodate the increased workload, ensure that all data meets requirements set by the regulators, and to improve the safety of employees and customers.

BENEFIT

Regulatory & Other Agreements: This project is required to meet regulatory requirements, multi-jurisdictional agreements, and/or consent decrees; Water Quality: This project supports WSSC Water's mission to provide safe, clean water by improving the quality and/or safety of drinking water; Workplace Optimization: This project supports WSSC Water's commitment to provide a productive work environment for its employees and secure its critical infrastructure

JUSTIFICATION

The Consolidated Laboratory Facility is an MDE-certified lab constructed in 2000 to meet the original workload of a maximum of 500,000 tests/year. Since the lab was built, it has experienced a significant increase in the analytical workload, number of employees, and number of instruments, and also added new functions with the creation of the Water Quality Division. The historical workload of 500,000 tests/year is expected to grow to over 750,000 tests/year. Currently, WSSC Water depends on subcontract laboratories for critical and regulatory analysis that cannot be handled in-house due to space, infrastructure, and instrument constraints. Lack of control and supervision by qualified WSSC Water staff on the regulatory samples tested in subcontract laboratories has resulted in errors in the past that could potentially lead to a citation/violation for WSSC Water. Additionally, increased analytical time involved with subcontract analysis may delay response to critical water contamination events, which could jeopardize the safety of WSSC Water's customers. An MDE Laboratory audit recommended having separate rooms for analyzing wastewater and drinking water microbiological samples. Lab Expansion Business Case Evaluation, CDM Smith (March 2019).

COST CHANGE

There is an increase of 14.3% ($5,356,000) in the total budget of FY2026-2031 as compared to FY2025-2030. This increase is primarily due to the adjustment made in the cost estimate of the work associated with the replacement/rehabilitation of the HVAC system in the existing laboratory. Budget Division added $3.26M for this work in FY2024 budget. The existing HVAC system was not inspected to determine the extent of the replacement/rehabilitation work at that time. A task order for investigative work was issued to an engineering firm. Based on their report, the total cost of this work is increased to $7.62M.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are a mix of actual bids and preliminary planning level estimates and are expected to change based upon site conditions and design constraints. The project is being implemented in two phases, with the first phase encompassing the expansion and the second phase comprising the replacement of equipment in the existing building. The Water Quality Division is implementing a Water Quality Surveillance and Response System to continuously monitor and respond to drinking water contamination events on a real-time basis from a centralized Water Quality Control Center. The Water Quality Division also manages the Contamination Rapid Response Team (CRRT) and the response to all water quality related customer complaints.

COORDINATION

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$432	28
Total Cost	$432	28
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'21
Date First Approved	FY'21
Initial Cost Estimate	21,844
Cost Estimate Last FY	37,585
Present Cost Estimate	42,821
Approved Request Last FY	229
Total Expense & Encumbrances	33,428
Approval Request Year 1	2,288

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Construction
Percent Complete	74 %
Estimated Completion Date	March 2027

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	750,000 tests annually

H. Map

MAP NOT APPLICABLE

Coordinating Agencies: Maryland Department of the Environment; Montgomery County Government; Prince George's County Government; U.S. Environmental Protection Agency, Region III
Coordinating Projects: Not Applicable

Support Center Upgrades

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
A - 000101.06	1	Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Northwestern Area PA 60

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	6,599	1,799	350	4,450	980	784	884	684	834	284	
Land											
Construction	33,031	31	7,000	26,000	7,700	3,660	3,660	3,660	3,660	3,660	
Other	3,780		735	3,045	868	446	455	434	447	395	
Total	**43,410**	**1,830**	**8,085**	**33,495**	**9,548**	**4,890**	**4,999**	**4,778**	**4,941**	**4,339**	

C. Funding Schedule (000's)

WSSC Bonds	43,410	1,830	8,085	33,495	9,548	4,890	4,999	4,778	4,941	4,339	

D. Description & Justification

DESCRIPTION

This program provides for the planning, design, and construction of projects to replace and upgrade assets at the Support Center Upgrades that have reached the end of their useful lives. The program will maintain or enhance existing operating conditions and reliability of the building systems. The work includes the following:

1.Replacement of the primary 13.2 kV switchgear and associated equipment that supply power to the building; and replacement of the emergency generators and fuel tanks.
2. Restacking - Renovation Lobby Level
3. Restacking - Renovation 2nd Floor Level
4. Restacking - Renovation 8th Floor Level
5. Restacking - Renovation 10th Floor Level
6. Restacking - Renovation 12th Floor Level
7. Blazer Unit Replacement @ 2nd, Lobby and Lower Levels
8. Facade and Screen Wall Rehabilitations
9. Replacement of existing Green Roof with new.

JUSTIFICATION

Most of the electrical equipment at the Support Center was installed during the initial building construction in 1990 and has reached the end of its useful life. Parts are not readily available in most cases and are increasingly more difficult to find. There is an increasing risk of critical system failure and prolonged outage recovery. The emergency generators are needed for building life safety systems, the Systems Control Center, and backup power to the Data Center systems in the event primary power is lost.

This work was recommended as part of WSSC Water's Asset Management Program (CNPV #149 and CNPV #178).

COST CHANGE

Cost changes are due to the transfer of ESP to CIP projects related directly to the Support Center.

OTHER

The project scope has changed to include the new projects transferred from ESP. The schedule and expenditure projections shown in Block B above are preliminary design level estimates and are expected to change based upon site conditions and design constraints. Planning work began under ESP A-890.63, Support Center Switchgear and Generator Replacement, A-890.62 for Support Center Building Restack Project, A-890.70 for Facade and Screen Wall and Green Roof Replacement of 2nd Floor Blazer units started under ESP A-890.58

COORDINATION

Coordinating Agencies: Montgomery County Government; Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$2,047	27
Total Cost	$2,047	27
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

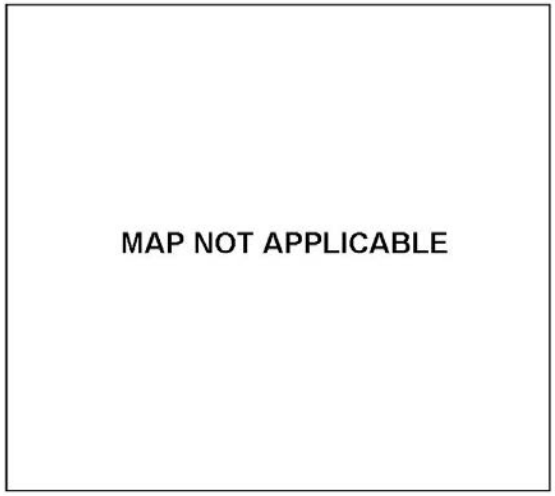
Date First in Program	FY'23
Date First Approved	FY'23
Initial Cost Estimate	13,750
Cost Estimate Last FY	14,877
Present Cost Estimate	43,410
Approved Request Last FY	7,458
Total Expense & Encumbrances	1,830
Approval Request Year 1	9,548

G. Status Information

Land Status	Public/Agency owned land
Project Phase	Design
Percent Complete	99 %
Estimated Completion Date	TBD

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map



Engineering Support Program

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
A - 000102.00		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Bi-County
Drainage Basins	Bi-County 30
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land											
Construction	247,056	20,000	27,000	200,056	22,556	35,500	35,500	35,500	35,500	35,500	
Other	27,944		3,000	24,944	2,444	4,500	4,500	4,500	4,500	4,500	
Total	**275,000**	**20,000**	**30,000**	**225,000**	**25,000**	**40,000**	**40,000**	**40,000**	**40,000**	**40,000**	

C. Funding Schedule (000's)

WSSC Bonds	275,000	20,000	30,000	225,000	25,000	40,000	40,000	40,000	40,000	40,000	

D. Description & Justification

DESCRIPTION

The Engineering Support Program (ESP) represents a consolidation of a diverse group of projects whose unified purpose is to support the extensive water and sewer infrastructure and numerous support facilities that are owned, operated, and maintained by WSSC Water.

*EXPENDITURES FOR ENGINEERING SUPPORT ARE EXPECTED TO CONTINUE INDEFINITELY.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Workplace Optimization: This project supports WSSC Water's commitment to provide a productive work environment for its employees and secure its critical infrastructure; Employee Safety: This project includes components that help protect the health and safety of employees

JUSTIFICATION

ESP projects are identified primarily through WSSC Water's Asset Management Program. Engineering services are provided for planning, design, and construction to meet a wide range of needs. As such, ESP projects are diverse in scope and typically include work needed to upgrade operating efficiency, modify existing processes, satisfy regulatory requirements, improve safety and security, or rehabilitate aging facilities. The ESP does not include proposed "major projects" which, by law, must be programmed in WSSC Water's Six-Year Capital Improvements Program or projects to serve new development.

Asset Management Implementation Plan, Stearns & Wheler (April 2008); FY'25 Enterprise Asset Management Plan (May 2023).

COST CHANGE

The ESP process provides a stable funding level for projects that require engineering support. Each year, the requested projects will be prioritized and then initiated subject to the available funding for the fiscal year.

OTHER

The ESP process provides a stable funding level for projects that require engineering support. Each year, the requested projects will be prioritized and then initiated subject to the available funding for the fiscal year.

COORDINATION

Coordinating Agencies: Not Applicable
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$11,050	
Total Cost	$11,050	
Impact on Water and Sewer Rate	$0.02	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'87
Date First Approved	FY'87
Initial Cost Estimate	
Cost Estimate Last FY	200,000
Present Cost Estimate	275,000
Approved Request Last FY	30,000
Total Expense & Encumbrances	20,000
Approval Request Year 1	25,000

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

Energy Performance Program

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
A - 000103.00		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	18,571		2,545	16,026	1,659	3,168	3,353	2,880	1,370	3,596	
Land											
Construction	58,940		2,600	56,340	3,493	10,022	9,499	11,602	12,717	9,007	
Other	8,569		417	8,152	366	1,810	2,148	518	913	2,397	
Total	**86,080**		**5,562**	**80,518**	**5,518**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	

C. Funding Schedule (000's)

WSSC Bonds	85,080		4,562	80,518	5,518	15,000	15,000	15,000	15,000	15,000	
State Aid	1,000		1,000								

D. Description & Justification

DESCRIPTION

This program provides for the planning, design, and construction of projects to replace and upgrade energy consuming equipment and systems to reduce energy consumption (electricity, fuel oil, natural gas, or other fuel), energy costs, and greenhouse gas production at all WSSC Water facilities. The program will maintain or enhance existing operating conditions and reliability while continuing to meet all permit requirements and ensuring a continued commitment to environmental stewardship, including greenhouse gas reduction. Projects may include, but are not limited to, the replacement or upgrade of water and wastewater process equipment, water and wastewater pumps, peak shaving and backup power generation systems, variable speed drives, HVAC equipment/systems, and lighting. Current projects include: Piscataway WRRF blower system upgrades; Piscataway WRRF mixer replacement/upgrade, Western Branch and Seneca WRRF dewatering upgrades, and Potomac WFP microgrid.

BENEFIT

Environmental Sustainability: This project supports WSSC Water's commitment to protect the natural environment of Prince George's and Montgomery Counties; Financial Efficiency: This project is expected to increase revenues, decrease expenses, or both; Innovation: This project utilizes new ideas, methods, and/or research to streamline processes, enhance services, and reduce costs

JUSTIFICATION

Previous projects under this program were implemented through various energy service companies (ESCOs) and power purchase agreement (PPA) procurements. The current projects are moving forward as standalone projects implemented by WSSC Water. WSSC Water will continue to identify energy savings efforts and greenhouse gas reduction opportunities through the implementation of energy audit calculations and methods developed as part of the program. Future projects will be validated by WSSC Water's Asset Management Program.

COST CHANGE

Not Applicable

OTHER

The project scope has expanded to include greenhouse gas reductions and clean energy initiatives. The schedule and expenditure projections shown in Block B above are a mix of preliminary planning, design, and construction level estimates and are expected to change based upon site conditions and design constraints. Costs for monitoring and verification are included in the Operating Budget. Portions of the program have been financed by low-interest loans through MDE's Water Infrastructure Financing Administration's Revolving Loan Fund Programs, as well as through MDE's Energy Water Infrastructure Program (EWIP). Various state and federal grant applications have been submitted for WSSC Water's projects including for the Potomac WFP Microgrid, Piscataway Blower Replacement, Advanced Aeration Control and Asset Health Monitoring / Pump Optimization.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Montgomery County Government; Prince George's County Government
Coordinating Projects: S - 000096.14 - Piscataway WRRF Facility Upgrades

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$7,595	
Total Cost	$7,595	
Impact on Water and Sewer Rate	$0.02	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'03
Date First Approved	FY'03
Initial Cost Estimate	
Cost Estimate Last FY	166,228
Present Cost Estimate	86,080
Approved Request Last FY	12,956
Total Expense & Encumbrances	
Approval Request Year 1	5,518

G. Status Information

Land Status	Public/Agency owned land
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

Water Storage Facility Rehabilitation Program

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000105.00		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	Bi-County
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	11,213		4,686	6,527	2,767	2,180	1,580				
Land											
Construction	57,064		18,395	38,369	18,219	12,300	6,950	300	300	300	300
Other	6,790		2,310	4,450	2,058	1,448	854	30	30	30	30
Total	**75,067**		**25,391**	**49,346**	**23,044**	**15,928**	**9,384**	**330**	**330**	**330**	**330**

C. Funding Schedule (000's)

WSSC Bonds	75,067		25,391	49,346	23,044	15,928	9,384	330	330	330	330

D. Description & Justification

DESCRIPTION

The Water Storage Facility Rehabilitation Program provides for the comprehensive rehabilitation of WSSC Water's more than 60 water storage facilities located throughout the WSSC Water service area, holding over 200 million gallons of finished drinking water. The program provides for structural metal and concrete foundation repairs, equipment upgrades to meet current OSHA standards, lead paint removal, security upgrades, advanced mixing systems to improve water quality, and altitude valve vault and supply pipe replacements.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; Water Quality: This project supports WSSC Water's mission to provide safe, clean water by improving the quality and/or safety of drinking water; Employee Safety: This project includes components that help protect the health and safety of employees

JUSTIFICATION

Currently, there are more than 20 steel tanks whose last painting contract was finished 10 or more years ago. Many older tanks have accumulated significant layers of paint which have lost their bonding strength to the steel. Old coatings will be completely removed and costly lead abatement techniques will be required in many cases. The recommended practice is to do this extra work every third re-coating to extend the service life of the structure. Modern coating systems should extend the length of service between coatings from the current 10 years to somewhere between 15 to 20 years.

COST CHANGE

Program costs reflect the latest schedule and expenditure projections based on the plan for the water storage facilities currently included in the program.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are a mix of planning, design, and construction level estimates and are expected to change based upon site conditions and design constraints. Tanks are prioritized based on the condition of the existing coating and structural integrity issues. The program plan for FY'26 will include the following water storage facilities: North Woodside Standpipe, Pointer Ridge Elevated Tank, Greenbelt Standpipe, Andrews Elevated Tank, Wall Lane Standpipe, Brink Elevated Tank, Bradley Hills 1 and 2, and Cedar Heights Reservoir.

COORDINATION

Coordinating Agencies: Maryland Department of the Environment; Montgomery County Government; Prince George's County Government
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$3,284	
Total Cost	$3,284	
Impact on Water and Sewer Rate	$0.01	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'09
Date First Approved	FY'09
Initial Cost Estimate	
Cost Estimate Last FY	82,888
Present Cost Estimate	75,067
Approved Request Last FY	20,207
Total Expense & Encumbrances	
Approval Request Year 1	23,044

G. Status Information

Land Status	Public/Agency owned land
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

Specialty Valve Vault Rehabilitation Program

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
W - 000107.00		Change

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	2,012		580	1,420	366	592	144	114	108	96	12
Land											
Construction	26,571		8,136	17,821	9,218	6,830	303	228	360	882	614
Other	4,248		1,308	2,846	1,394	1,114	68	52	71	147	94
Total	**32,831**		**10,024**	**22,087**	**10,978**	**8,536**	**515**	**394**	**539**	**1,125**	**720**

C. Funding Schedule (000's)

WSSC Bonds	32,831		10,024	22,087	10,978	8,536	515	394	539	1,125	720

D. Description & Justification

DESCRIPTION

This program provides for the planning, design, and construction of improvements and replacement of specialty valves and their associated vaults throughout the water distribution system, including pressure reducing valves, pressure relief valves, and altitude and metering valves. The program includes valves ranging in size from 8-inches to 60-inches in diameter. The program will systematically evaluate the condition of individual installations, some of which were constructed as early as the 1930s, and upgrade or relocate the structures and equipment as necessary. This program will improve reliability and increase the efficiency of system operations.

BENEFIT

Infrastructure Reinvestment: This project replaces existing infrastructure that has exceeded its useful life; System Reliability: This project will improve service reliability through fewer and shorter service interruptions

JUSTIFICATION

The facilities included in this program are in need of rehabilitation due to factors such as: location within heavily traveled roadways, age deterioration, obsolescence, and operational improvements. Candidate PRVs were originally identified in an October 26, 2005 memo from Jeff Asner to Karen Wright and a subsequent May 7, 2007 memo from Karen Wright to Thomas Heikkinen. Originally, there were 23 candidate vaults within this program, as identified by the Systems Control Group; PRV Vault Rehabilitation Evaluation Study, EBA Engineering, Inc. (September 2010). Additional valves and vaults were recommended as part of WSSC Water's Asset Management Program; 290B Business Case Report (January 2016); CNPV #244 Central Avenue Water Pumping Station Valve Vaults Replacement (June 2022).

COST CHANGE

Program costs reflect the latest schedule and expenditure projections based on the plan for the valves and vaults currently included in the program.

OTHER

The project scope has remained the same. The schedule and expenditure projections shown in Block B above are a mix of planning, design, and construction level estimates and are expected to change based upon site conditions and design constraints. Additional vaults may be added to or removed from the program based upon recommendations from WSSC Water's Asset Management Program. Future land and rights-of-way costs are included in project W-202.00.

COORDINATION

Coordinating Agencies: Maryland State Highway Administration; Maryland Water Management Administration; Montgomery County Department of Public Works and Transportation; Montgomery County Government; Prince George's County Government; Prince George's County Department of Permitting Inspection and Enforcement
Coordinating Projects: W - 000161.01 - Large Diameter Water Pipe & Large Valve Rehabilitation Program

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$1,475	
Total Cost	$1,475	
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'11
Date First Approved	FY'11
Initial Cost Estimate	17,560
Cost Estimate Last FY	22,561
Present Cost Estimate	32,831
Approved Request Last FY	4,186
Total Expense & Encumbrances	
Approval Request Year 1	10,978

G. Status Information

Land Status	Land and R/W to be acquired
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

Lead Reduction Program

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
A - 000109.02		Add

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	30,240			30,240	30,240						
Land											
Construction	62,991			62,991		25,803	18,711	14,076	4,401		
Other	10,359			10,359	3,360	2,867	2,079	1,564	489		
Total	**103,590**			**103,590**	**33,600**	**28,670**	**20,790**	**15,640**	**4,890**		

C. Funding Schedule (000's)

WSSC Bonds	103,590			103,590	33,600	28,670	20,790	15,640	4,890		

D. Description & Justification

DESCRIPTION

This program provides for the implementation and execution of risk mitigation actions against lead in drinking water, with particular emphasis on the removal of all lead service lines (both public and private) as required by Federal and State regulations. Specifically, the program will include but not be limited to (1) material verification for all services with an unknown material type involving field investigations, customer surveys, and other methods approved by the State, (2) proactive replacement of all lead service lines and galvanized services requiring replacement, (3) measures to protect vulnerable population in schools and childcare facilities, and (4) development and execution of a comprehensive public outreach and education program. The program will prioritize all replacement work efforts while incorporating Environmental Justice in all aspects of its activities, including income-based and vulnerability-based prioritization of inventory and replacement, and financial assistance programs. In the later phase of the program, the work will also identify, and implement as determined, voluntary measures beyond Lead and Copper Rule compliance, including but not limited to (1) continuing support for schools and childcare facilities beyond the mandated 5-year monitoring period, (2) replacement of lead connectors, and initiatives to identify and (3) support replacement of lead premise plumbing. These voluntary measures will lay groundwork for potential future revisions to to the regulations and will align with Commission's role as a leader in public health stewardship.

BENEFIT

JUSTIFICATION

The Lead and Copper Rule, originally promulgated in 1991 and subsequently revised in 2021 required the replacement of public and private lead service lines if certain action levels of lead in the water were exceeded in the home tap water. Subsequently in 2024, proposed improvements to the 2021 ruling stipulate a mandatory requirement for 100% replacement regardless of lead levels.
Cost Change: Customers having lead service lines have the potential risk of lead exposure. Lead can be released when water comes in contact with pipes that contain lead. If present, elevated lead levels can cause health concerns, especially for pregnant women and young children. Reducing all lead service lines eliminates this potential exposure pathway and risks associated with lead consumption.

COST CHANGE

Program costs reflect the latest schedule and expenditure projections based on information available for the program.

OTHER

COORDINATION

Coordinating Agencies: Montgomery County Department of Environmental Protection; Montgomery County Government; Prince George's County Government
Coordinating Projects: W - 000001.00 - Water Reconstruction Program

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service		
Total Cost		
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	
Date First Approved	
Initial Cost Estimate	
Cost Estimate Last FY	
Present Cost Estimate	103,590
Approved Request Last FY	
Total Expense & Encumbrances	
Approval Request Year 1	33,600

G. Status Information

Land Status	
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	

Growth	
System Improvement	
Environmental Regulation	100%
Population Served	
Capacity	

H. Map

Other Capital Programs

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
A - 000110.00		Change

PDF Date	October 1, 2024
Date Revised	March 1, 2025

Pressure Zones	
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	70,728		9,240	61,488	7,733	10,751	10,751	10,751	10,751	10,751	
Land											
Construction	426,521		47,302	379,219	21,231	67,603	68,613	73,913	73,924	73,935	
Other	84,160		12,585	71,575	27,398	8,856	8,846	8,836	8,825	8,814	
Total	**581,409**		**69,127**	**512,282**	**56,362**	**87,210**	**88,210**	**93,500**	**93,500**	**93,500**	

C. Funding Schedule (000's)

WSSC Bonds	581,409		69,127	512,282	56,362	87,210	88,210	93,500	93,500	93,500	

D. Description & Justification

DESCRIPTION

Other Capital Programs (OCP) includes miscellaneous capital projects, programs, and expenditures for common, non-CIP, enterprise-wide activities such as relocations, new water and sewer house connections, purchase and installation of water meters, purchase of generators, PFAs Pilot, Facility Planning Study, paving, and general construction of local lines.

*EXPENDITURES FOR OTHER CAPITAL PROGRAMS ARE EXPECTED TO CONTINUE INDEFINITELY.

JUSTIFICATION

The OCP does not include proposed "major projects" which, by law, must be programmed in WSSC Water's Six-Year Capital Improvements Program (CIP) or projects to serve new development.

COST CHANGE

Not applicable.

OTHER

The OCP summarizes capital expenditures and allocated costs that are not already included in the CIP or in other Information Only projects. Expenditures for the budget year are estimated during the annual CIP update cycle each summer for the Proposed CIP document. The estimates will be revised and updated during the annual budget update cycle each fall for the Proposed Operating & Capital Budget document. Future years are Order of Magnitude estimates and are expected to change with each update cycle.

COORDINATION

Coordinating Agencies: Not Applicable
Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service	$20,950	
Total Cost	$20,950	
Impact on Water and Sewer Rate	$0.04	

F. Approval and Expenditure Data (000's)

Date First in Program	FY'21
Date First Approved	FY'21
Initial Cost Estimate	
Cost Estimate Last FY	495,540
Present Cost Estimate	581,409
Approved Request Last FY	61,712
Total Expense & Encumbrances	
Approval Request Year 1	56,362

G. Status Information

Land Status	Not Applicable
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	On-Going

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

MAP NOT APPLICABLE

PFAS Management Strategy

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
A - 000112.00		Add

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	Bi-County

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision											
Land											
Construction	230,850			230,850		18,900	19,800	63,000	65,250	63,900	
Other	25,650			25,650		2,100	2,200	7,000	7,250	7,100	
Total	**256,500**			**256,500**		**21,000**	**22,000**	**70,000**	**72,500**	**71,000**	

C. Funding Schedule (000's)

WSSC Bonds	256,500			256,500		21,000	22,000	70,000	72,500	71,000	

D. Description & Justification

DESCRIPTION

The US EPA finalized a National Primary Drinking Water Regulation for six per- and polyfluoroalkyl substances (PFAS) compounds in April 2024, effective June 2024. Public water systems have five years (2029) to comply with the new maximum contaminant levels (MCLs). Future limits are also expected for treated wastewater and biosolids. WSSC Water's approach to PFAS drinking water compliance is to pursue parallel efforts of source water protection to identify and advocate for reduction of watershed sources of PFAS, and drinking water treatment to remove PFAS that is present.

This program funds the planning, design, and construction of treatment for the removal of PFAS in drinking water. Regular monitoring of PFAS levels in Patuxent and Potomac treated drinking water have continued since 2020. Less PFAS has been detected in the Patuxent source water than the Potomac source water. For both source waters, levels are below PFAS MCLs and would be in compliance with the new regulation. However, future compliance is not guaranteed, due to factors such as vast number of potential and unknown sources of PFAS in the watershed, potential variability of PFAS levels in the source water, and the changing nature of water quality due to climate change.

The selection of PFAS treatment technology will consider: ability to improve reliability of compliance for PFAS and other regulated contaminants, treatment performance for aesthetic and emerging contaminants, space requirements, scalability for future expansion, ability to increase resilience to climate change and emergencies, operation and maintenance, safety, environmental sustainability, and affordability. Based on high treatment cost and current levels below the PFAS limits, the project will start by sizing a PFAS treatment system for a portion of the Potomac Water Filtration Plant's capacity, with the view to scale up treatment capacity if needed.

JUSTIFICATION

PFAS treatment is planned in order to maintain compliance into the future, which is challenged by factors such as incomplete understanding of watershed sources of PFAS, potential variability of PFAS levels in the Potomac River and Patuxent Reservoirs, the changing nature of water quality due to climate change, the potential for future regulation of other emerging contaminants. This project prepares WSSC Water to maintain a wider margin of compliance with drinking water regulations for PFAS and other existing contaminant limits. The treatment system will increase resilience to the potential impacts of climate change such as warming temperatures, increased algae blooms, and increased severity of drought and flood events. It will also better position WSSC Water to address modernization of the current water treatment facilities.

COST CHANGE

OTHER

COORDINATION

Coordinating Projects: Not Applicable

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service		
Total Cost		
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'26
Date First Approved	FY'26
Initial Cost Estimate	
Cost Estimate Last FY	
Present Cost Estimate	256,500
Approved Request Last FY	
Total Expense & Encumbrances	
Approval Request Year 1	

G. Status Information

Land Status	
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	

Growth	
System Improvement	
Environmental Regulation	100%
Population Served	
Capacity	

H. Map

Master Planning and Facilities Planning and Investment

A. Identification and Coding Information		
Agency Number	Project Number	Update Code
A - 000113.00		Add

PDF Date	October 1, 2024
Date Revised	

Pressure Zones	
Drainage Basins	
Planning Areas	

B. Expenditure Schedule (000's)

Cost Elements	Total	Thru FY'24	Estimate FY'25	Total 6 Years	Year 1 FY'26	Year 2 FY'27	Year 3 FY'28	Year 4 FY'29	Year 5 FY'30	Year 6 FY'31	Beyond 6 Years
Planning, Design & Supervision	31,500			31,500	31,500						
Land											
Construction	261,000			261,000		49,500	49,500	54,000	54,000	54,000	
Other	32,500			32,500	3,500	5,500	5,500	6,000	6,000	6,000	
Total	**325,000**			**325,000**	**35,000**	**55,000**	**55,000**	**60,000**	**60,000**	**60,000**	

C. Funding Schedule (000's)

WSSC Bonds	325,000			325,000	35,000	55,000	55,000	60,000	60,000	60,000	

D. Description & Justification

DESCRIPTION

This program provides for the development of Master Planning and Facility Planning and Investment.
A 20-year system-wide Master Plan for the entire water system will be developed incorporating and expanding upon past and on-going work efforts within WSSC Water involving source water supply, storage, pumping, transmission and distribution, and water treatment needs. Additionally, a 20-year system-wide Master Plan for the entire wastewater system incorporating and expanding upon the past and on-going work efforts within WSSC Water involving pipe network and conveyance system, pumping facilities, wet weather storage, water resource recovery facilities and management of biosolids.

Subsequently, 10-year Facility Plans for each element of the water and wastewater systems will be developed as dynamic documents guided by the 20- year Water and Sewer Master Plans.

The goal of all Plans is to provide an infrastructure roadmap based on analyses of future capital investment needs necessary to meet service and regulatory mandates; protect the health and safety of customers, employees, and the environment; reduce business risk exposures; provide exceptional level of service while sustaining operational efficiency; enhance reliability, and resilience; maintain state of good repair of WSSC Water's assets and systems; implement WSSC Water's initiatives, plans and policies; and advance Prince George's and Montgomery counties' priorities. Diversity, equity, inclusion, and environmental justice are core elements of WSSC Water's infrastructure planning to ensure underprivileged communities' benefit from equitable infrastructure access and economic opportunities. Facilities Plans will proactively address contaminants of emerging concerns and increasingly stringent water quality and environmental regulations necessary to protect public health and promote stewardship of Potomac, Patuxent, and Chesapeake Bay Watersheds. Facilities Plans shall include approaches and investment needs essential to implement WSSC Water's Strategic Plan as well as support its vision of One Water and Smart Water. Facilities Plans shall result in prioritized list of new and aging infrastructure replacement, upgrade, and repair projects for inclusion in a 10- year Capital Improvement Program (CIP) to meet future needs while improving capital budget, cost predictability and affordability and maintaining a high level of customer satisfaction. The Facilities Plans would serve as a guide to establish future rates and charges and pursue available funds and grants to implement the required projects. Facilities Plans will outline strategies to implement asset lifecycle management of new and existing assets including integration of new assets with operations and maintenance and decommissioning of existing end-of-life and replaced assets.

This program includes the execution of the recommendations from these plans for the necessary infrastructure investments.

BENEFIT

JUSTIFICATION

Master and Facility Plans are required to take a holistic approach at both the system and facility level in a logical, systematic, and financially responsible manner in order to sustain the long-term reliability of our infrastructure.

Development of the Master and Facility Plans will provide a systematic and methodical approach for planning, scheduling and executing the investments needed to sustain a reliable and resilient water and wastewater system to meet the needs of our customers today and well into the future.

COST CHANGE

E. Annual Operating Budget Impact (000's)		FY of Impact
Staff & Other		
Maintenance		
Debt Service		
Total Cost		
Impact on Water and Sewer Rate		

F. Approval and Expenditure Data (000's)

Date First in Program	FY'26
Date First Approved	FY'26
Initial Cost Estimate	
Cost Estimate Last FY	
Present Cost Estimate	325,000
Approved Request Last FY	
Total Expense & Encumbrances	
Approval Request Year 1	35,000

G. Status Information

Land Status	
Project Phase	On-Going
Percent Complete	0 %
Estimated Completion Date	

Growth	
System Improvement	100%
Environmental Regulation	
Population Served	
Capacity	

H. Map

OTHER

COORDINATION

Coordinating Projects: Not Applicable

APPENDIX A

RESOLUTION NO. 2025-2391
Adopted: June [18], 2025
Effective Date: July 1, 2025

WASHINGTON SUBURBAN SANITARY COMMISSION

SUBJECT: A RESOLUTION modifying the System Development Charge (SDC) to help finance the capital costs of expanding and augmenting water and sewerage systems to accommodate service to subscribers in the Washington Suburban Sanitary District (WSSD) and to provide a financing mechanism to aid the Washington Suburban Sanitary Commission (Commission) in paying for the capital projects thereof by providing methods and procedures by which the SDC is to be implemented and/or collected.

WHEREAS, the Maryland Annotated Code, Public Utilities Article (PUA) §§ 25-401, *et. seq.* authorizes the Montgomery and Prince George's County Councils to establish a System Development Charge which will be paid by applicants for new water and sewer service; and

WHEREAS, PUA §§ 25-402 and 25-403 govern the schedule for the payment of the System Development Charge to the Commission for certain properties and establishes a maximum System Development Charge that may be charged; and

WHEREAS, the Commission owns and operates various water treatment and sewage treatment disposal plants and facilities within the WSSD and has an equity share in sewage treatment plants operated by other jurisdictions to treat sewage generated in portions of the WSSD; and

WHEREAS, it is necessary that the Commission, with the advice and consent of the local governing bodies within the WSSD, develop alternative funding to cover the costs of providing quality water and sewer service in the WSSD and to similarly accommodate new growth therein as authorized by the County Governments; and

WHEREAS, the System Development Charge is a component of the Commission's Fiscal Year 2026 capital and operating budgets prepared pursuant to PUA §17-202; and

WHEREAS, the Commission last modified the System Development Charge effective July 1, 2024 by Commission Resolution No. 2024-2364; and

WHEREAS, for all of the foregoing reasons it is necessary or desirable to continue the imposition of a System Development Charge fee; and

RESOLUTION NO. 2025-2391
Adopted: June [18], 2025
Effective Date: July 1, 2025

WHEREAS, PUA § 25-403(a) provides that the Montgomery and Prince George's County Councils may adopt and the Commission may implement a System Development Charge not to exceed certain maximum amounts as set forth in PUA §§ 25-403(a)(2)(ii) and (a)(2)(iii); and

WHEREAS, PUA § 25-403(c) provides that the maximum charge as set forth in PUA §§ 25-403(a)(2)(ii) and (a)(2)(iii) may be changed by an amount equal to the prior calendar year's change in the consumer price index published by the Bureau of Labor Statistics of the United States Department of Labor for urban wage earners and clerical workers for all items for the Washington, D.C. metropolitan area; and

WHEREAS, the consumer price index published by the Bureau of Labor Statistics of the United States Department of Labor for urban wage earners and clerical workers for all items for the Washington, D.C. metropolitan area increased 2.5% from November 2023 to November 2024; and

WHEREAS, The Commission recommends increasing the System Development Charge by 2.5 percent for FY 2026, and recommends increasing the maximum allowable charge by 2.5% from FY 2025 limits in order to maintain future rate flexibility to address future potential growth funding gaps; and

WHEREAS, the County Councils of Prince George's County and Montgomery County met and approved the modifications to the System Development Charge set forth below on May 8, 2025; and

NOW, THEREFORE, BE IT RESOLVED This 18th day of June, 2025, that the Commission hereby adopts the approved System Development Charge fee schedule as set forth herein. For the purposes of this Resolution, the following definitions apply:

Definitions:

1) Apartment Unit means one of several single family residential units within one building that is not a "multi-unit dwelling." An "apartment unit" must contain at least one full bath and kitchen, but not more than two toilets. An "apartment unit" typically includes, but is not limited to, an individual dwelling unit in a garden, medium or high-rise type residential building.

2) Drainage Charge is the portion of the System Development Charge applicable to drainage fixture units for apartments and residential properties having five or fewer toilets.

3) Drainage Fixture Unit Value is a measure of the probable discharge into the drainage system by a particular plumbing fixture in terms of volume rate of discharge and duration of a single drainage operation and the time between successive operations.

4) Dwelling Unit means a single-family housing unit used as a residence, including trailers and mobile homes.

5) Hookup means the joining of the on-site water and/or sewer line(s) to the Commission's service connection or the installation of plumbing fixtures in a building served by the Commission's water and/or sewer facilities.

6) Multi-Unit Dwelling means a building that will accommodate several housing units on a lateral basis; namely, semi-attached houses, row houses, or townhouses used as residences.

7) New Service means:

   a) the first-time hook-up of a property to the Commission's water and/or sewer system, including

      1) a direct connection of an improvement or building; or
      2) a connection of the improvement or building through an existing on-site system; or

   b) a new connection or increased water meter size for a property previously or currently served by the Commission if the new connection or increased meter size is needed because of a change in the use of the property or an increase in demand for service at the property.

8) Non-Residential Unit is a structure not otherwise defined as a Residential Unit, generally commercial or industrial in nature. Examples may include shopping malls, non-residential townhouses, warehouses, industrial buildings, restaurants, schools, dormitories, hospitals, hotels, motels, nursing homes, office buildings, churches, theaters, and similar commercial or industrial buildings.

9) Residential Unit means any housing unit defined in Paragraphs 1, 4, and 6, above and used as a residence.

10) System Development Charge means that charge imposed by the Commission pursuant to the provisions of §25-403, Division II of the Public Utilities Article, Annotated Code of Maryland. (Maximum allowable System Development Charge is the maximum charge authorized by law, but not necessarily imposed in a given year.)

11) Toilet is a water closet as set forth in the WSSC Code of Regulations, Chapter 14.25—the Plumbing and Fuel Gas Code; and

12) Water Supply Charge is the portion of the System Development Charge applicable to water supply fixture units for apartments and residential properties having five or fewer toilets; and

13) Water Supply Fixture Unit Value is a measure of the probable hydraulic demand on the water supply by a particular plumbing fixture in terms of volume rate of supply and duration of a single supply operation and the time between successive operations; and

BE IT FURTHER RESOLVED, that the System Development Charge rates for FY'26 shall be as follows:

Property Type	FY'26 Charge	Maximum Allowable Charge
Apartment Unit		
Water	$918	$1,611
Sewer	1,169	2,049
1-2 Toilets / Residential		
Water	1,378	2,417
Sewer	1,753	3,071
3-4 Toilets / Residential		
Water	2,296	4,028
Sewer	2,921	5,125
5 Toilets / Residential		
Water	3,213	5,636
Sewer	4,091	7,175
6 or More Toilets / Residential*		
Water	90	160
Sewer	118	209
Non-Residential*		
Water	90	160
Sewer	118	209

*Per Fixture Unit

(The System Development Charge for non-residential properties and dwelling units or multi-unit dwellings with more than five toilets shall be based on the number of plumbing fixtures and the assigned values for those fixtures as set forth in the WSSC Code of Regulations, Chapter 14.25—the Plumbing and Fuel Gas Code.); and

BE IT FURTHER RESOLVED, that the System Development Charge, as established herein, shall be paid by an Applicant for New Service to the Commission at the time of application for a plumbing permit to install fixtures or hookup(s) to the Commission's water and/or sewage system(s) except that an applicant for a plumbing permit for a residential unit may pay the System Development Charge in two payments as follows:

1) One-half at the time of Plumbing Permit Application;
2) The remaining one-half within 12 months after the first payment or prior to the transfer of title to the property, whichever occurs first.

At the time of the first payment, the applicant for the plumbing permit for a residential unit shall deposit with the Commission security for the second payment in an amount and form established and approved by the Commission; and

BE IT FURTHER RESOLVED, that the fees established herein shall be in addition to, and not a substitution for, any other fees, rates, charges, or assessments allowed by law; and

BE IT FURTHER RESOLVED, that the Commission recognizes that the County Councils for Prince George's and Montgomery Counties have the authority to grant full or partial exemptions from the System Development Charge, as set forth in PUA §25-403(b); and

BE IT FURTHER RESOLVED, that nothing herein shall be construed as creating a contract between the Commission and the applicant for New Service, and that the providing of water and/or sewer service to an applicant's property shall be subject to intervention of other governmental authority; the duly adopted policies of Montgomery and Prince George's Counties, and the Commission's ability to otherwise provide such service; and

RESOLUTION NO. 2025-2391
Adopted: June [18], 2025
Effective Date: July 1, 2025

BE IT FURTHER RESOLVED, that Commission Resolution No. 2024-2364 adopted June 21, 2024 on the same subject matter be, and the same is hereby superseded by this Commission Resolution No. ~~20XX-23XX;~~ 2025-2391

BE IT FURTHER RESOLVED, that the System Development Charge established herein shall take effect on July 1, 2025.

A True Copy

Attest:

Julianne M. Montes De Oca, Esq., Corporate Secretary

Chapter 5.90
SYSTEM DEVELOPMENT CHARGE LEVY AND COLLECTION

Sections:

5.90.010 Purpose.

(a) To document the levy, collection and deposit of the system development charge (SDC) in accordance with the Public Utilities Article, § 25-401 et seq., Annotated Code of Maryland and WSSC's Resolution No. 98-1555.

(b) Define terms and phrases referencing SDC as commonly used in the issuance of plumbing permits. (Amended during 2019 codification; CUS 98-01 § 1)

5.90.020 Definitions.

(a) "Apartment unit" means one of several single-family housing units within one building and not specifically classified as a multi-unit dwelling; e.g., individual dwelling units in garden, medium and high-rise type residential buildings.

(b) "Base SDC fee" means the WSSC approved dollar charge for a plumbing fixture having a drainage fixture unit value and/or a water supply fixture unit value of one for nonresidential properties or residential units with more than five toilets. The base SDC fee for residential units with five or fewer toilets is the WSSC approved dollar charge based upon the unit's number of toilets.

(c) "Drainage fixture unit value" means a measure of the probable discharge into the drainage system by a particular plumbing fixture in terms of volume rate of discharge and duration of a single drainage operation and the time period between successive operations.

(d) "Dwelling unit" means a single-family housing unit used as a residence, including trailers and mobile homes.

(e) "Hookup" means the joining of a property's on-site water and/or sewer line(s) to the Commission's service connection or the installation of plumbing fixtures in a building served by the Commission's water and/or sewer facilities.

(f) "Multi-unit dwelling" means a building that will accommodate several housing units on a lateral basis; namely, semi-attached houses, row houses or townhouses used as residences.

(g) "New service" means:

(1) The first-time hookup of a property to the Commission's water and/or sewer system; or

(2) A new connection or increased water meter size for a property, previously or currently served by the Commission, if the new connection or increased meter size is needed because of a change in the use of the property or an increase in demand for service at the property.

(h) "Nonresidential unit" means a structure not otherwise defined as a residential unit, generally commercial or industrial in nature. Examples may include shopping malls, nonresidential townhouses, warehouses, industrial buildings, restaurants, schools, dormitories, hospitals, hotels, motels, nursing homes, office buildings, churches, theaters and similar commercial or industrial buildings.

(i) "Plumbing permit" means the approved instrument, resulting from an application filed by a registered master plumber, which allows for hookup of fixtures or on-site piping to the Commission's water and/or sewer systems.

(j) "Property" means an improvement(s) or building(s) on a lot or parcel of land containing plumbing fixtures described in terms of drainage fixture unit values or water supply fixture unit values.

(k) "Public sponsored and affordable housing" means:

(1) Any dwelling unit built or financed under a government program, regulation, or binding agreement that limits for at least 10 years the price or rent charged for the unit in order to make the unit affordable to households earning less than 80 percent of the area median income, adjusted for family size;

(2) Any moderately priced dwelling unit built under Chapter 25A of the Montgomery County Code or Subtitles 13 and 27 of the Prince George's County Code;

(3) Any productivity housing unit, as defined in Section 25B-17(m) of the Montgomery County Code;

(4) Any unit in an opportunity housing project built under Sections 56-28 through 56-32 of the Montgomery County Code or Subtitle 13, Division 8, of the Prince George's County Code, which is reserved for occupancy only by persons with low or moderate incomes (as defined in applicable provisions of state and county law);

(5) Any dwelling unit constructed pursuant to the Capturing Housing Opportunities in Communities Everywhere (CHOICE) program in Prince George's County which is reserved for occupancy only by persons with low or moderate incomes (as defined in applicable provisions of state and county law).

(l) "Residential applicant" means a builder on whose behalf a registered master plumber applies for and receives from the Commission plumbing permits for construction of new residential units.

(m) "Residential unit" means any apartment unit, dwelling unit or multi-unit dwelling, as defined in this section, used as a residence.

(n) "SDC sewer charge" means the product of a fixture's drainage fixture unit value and its associated base SDC fee for nonresidential properties or dwelling and multi-unit housing units with more than five toilets. For residential properties with five or fewer toilets, the SDC sewer charge is the Commission approved drainage portion of the base SDC fee.

(o) "SDC water charge" means the product of a fixture's water supply fixture unit value and its associated base SDC fee for nonresidential properties or dwelling and multi-unit housing units with more than five toilets. For residential properties with five or fewer toilets, the SDC water charge is the Commission approved water supply portion of the base SDC fee.

(p) "Sub-district charge" means that charge established by the Commission pursuant to the provisions of the Public Utilities Article, § 25-101(b), Annotated Code of Maryland.

(q) "Toilet" means a water closet, as set forth in WSSC Chapter 14.25.

(r) "Water supply fixture unit value" means a measure of the probable hydraulic demand on the water supply by a particular plumbing fixture in terms of volume rate of supply and duration of a single supply operation and the time period between successive operations.
(Amended during 2019 codification; CUS 98-01 § 2)

5.90.030 General.

(a) SDC is a fee established pursuant to provisions of the Public Utilities Article, § 25-403(b), Annotated Code of Maryland, to help finance the capital cost of upgrading existing plants and facilities as well as the construction of new capital projects attributable to the addition of new service.

(b) The base SDC fee level is established by Commission resolution representing a formal adoption of the fee level mutually agreed upon by the Montgomery and Prince George County Councils.

(c) The SDC fee for a nonresidential property or a dwelling unit or housing unit within multi-unit dwelling with more than five toilets is determined by the type and number of fixtures, existing and/or proposed, for which hookup to the WSSC's water and/or sewerage system(s) is proposed. The SDC levy is the sum of SDC water charges and SDC sewer charges, prevailing at the time of application for hookup, which are associated with the individual fixtures proposed for hookup.

(d) The SDC fee for a residential unit with five or fewer toilets is determined by the number of toilets, existing and/or proposed, for which hookup to the WSSC's water and/or sewerage system(s) is proposed. The SDC levy is the sum of SDC water charges and SDC sewer charges, prevailing at the time of application for hookup, which are associated with the number of toilets proposed for hookup.

(e) Except as provided by subsection (i) of this section, a property's calculated SDC fee is payable in full and shall accompany the application for plumbing permit for hookup of a

property's fixtures to the WSSC system. Any credit pursuant to the Development Services Code, WSSC Chapter 11.155, may be substituted as payment, on a dollar for dollar basis, as therein described. Collected SDC fees shall be deposited in established revenue accounts and reconciled through the Service Applications and Records Section's remittance-processing system.

(f) When a request is made to add a fixture(s) to a plumbing permit which has been issued under a previous SDC rate structure and which has not received final inspection approval, the additional SDC shall be calculated and collected based upon the fixture unit rate in effect at the time of request, except that the total SDC for a residential unit permit with five or less toilets shall not exceed the current base SDC fee for such a unit.

(g) When an application is made to add a toilet(s) to an existing dwelling or housing unit within an existing multi-unit dwelling, the resulting permit may be subject to a SDC fee only if the unit was previously assessed a SDC fee or an increase is required in the size of the unit's connection or meter. In either situation, a SDC fee will be actually assessed only if the number of toilets is being increased from one toilet based rate category to the next. For housing units with five or fewer toilets, the SDC fee assessed will be equal to the difference in the SDC base charge currently applicable to the number of existing toilets and that applicable to the total number of existing and proposed toilets. The SDC fee assessed for existing housing units with more than five toilets is the sum of the SDC base fees at the current SDC rate structure for all added fixtures.

(h) When an application is made to add fixtures to a nonresidential unit, the resulting permit may be subject to a SDC fee only if the unit was previously assessed a SDC fee or an increase is required in the size of the unit's connection or meter. In either situation, the SDC fee assessed is the sum of the SDC base fees at the current SDC rate structure for all added fixtures.

(i) A residential applicant who elects to delay paying a portion of the system development charge shall pay one-half the charge at the time of filing application for plumbing permit. The remaining one-half of the system development charge for each residential unit shall be paid to the Commission within 12 months after the first payment or prior to the transfer of title to the property, whichever occurs first. A residential applicant must provide security for the remaining one-half of the system development charge at the time of filing the plumbing permit application in one of the following forms:

(1) An irrevocable letter of credit that is automatically renewed from a bank that is rated "C" or better by Thomson Bankwatch.

(2) A financial guaranty bond in a form substantially similar to the form attached here as Appendix A. The bond shall be executed by the applicant and a corporate bonding company licensed to transact such business in the State of Maryland and named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. The expense of this bond shall be paid by the applicant. If at any time the surety on any such bond is declared bankrupt or loses its right to do business in the State of Maryland or is removed from the list of surety companies accepted on federal bonds, the applicant shall, within 10 days after notice from the Commission to do so, substitute an acceptable bond in such forms and sum and signed by such other surety or sureties as may be satisfactory to the Commission.

(3) For the resident applicant who certifies that he or she applies for four or fewer permits for the construction of residential units within the same calendar year, the General Counsel is hereby authorized to accept other forms of security proposed by the applicant and that in the judgment of the General Counsel will protect the Commission's interests in the same manner as the letter of credit and financial guaranty bond described above.

(j) Fixtures verified by WSSC inspection prior to removal may result in credits toward SDC in a replacement structure. Following written application by a registered master plumber, postcard permit inspections to confirm fixtures prior to removal will be the basis for calculating any SDC credit. No credit will be afforded for rough-in piping or fixtures removed prior to inspection. SDC credit under this subsection may only be obtained by submitting the original master plumber's copy of the approved postcard permit document at the time of application for hookup of the replacement or remodeled structure. Credit obtained under this provision may only be used toward the remodeling of the existing structure or the redevelopment of a property from which the original fixtures were removed. (Amended during 2019 codification; CUS 98-01 § 3)

5.90.040 Exemptions.

(a) Additional fixtures installed in a structure or building are exempt from the levy of an SDC fee only if inspection of the initial hookup of the building or structure's plumbing to the WSSC's

system(s) was approved under a permit issued as a result of an application filed before July 19, 1993, and the change in fixtures does not require an increase in the property's connection(s) or meter size.

(b) The hookup of a residential unit which is certified by Montgomery or Prince George's County as being a public sponsored or affordable housing unit, as defined by Commission Resolution No. 98-1555, shall be exempted from any SDC fee.

(c) The initial hookup of a residential unit to the Commission's water and/or sewerage system will be exempted from the levy of any SDC fee if the unit existed and was served by a private well and/or septic system on or before July 16, 1993, and the applicable WSSC water or sewer main was in service or its construction was the subject of "formal notice to proceed" (to the WSSC contractor) on or before the same July 16, 1993. (Amended during 2019 codification; CUS 98-01 § 4)

5.90.050 Refunds.

(a) In the event a permit to install plumbing fixtures expires or is canceled pursuant to provisions of Section 206.2 of the Plumbing and Gasfitting Regulations, all SDC fees paid in association with the application for plumbing permit to hook up may be refunded, provided Code Enforcement Section's inspection records confirm that no work covered by the permit has been accomplished. Such refunds will be made to the original SDC payer at the time of application.

(b) SDC payments for fixtures represented on an application, but not installed, may be refunded to the original payer provided a written request for refund is filed with the Service Applications and Records Section prior to a request for final inspection. Upon confirmation by the Code Enforcement Section that the fixtures or related rough-in work referenced in the written request have not been installed, the fixtures will be deleted from the permit database record and SDC refund action will be initiated.

(c) The reimbursement of SDC payments to comply with credit requirements set forth in the Public Utilities Article, § 25-405, Annotated Code of Maryland, shall be accomplished as specified by the Development Services Code, WSSC Chapter 11.155.

(d) A request for full or partial refund of previously remitted SDC which has been denied may be appealed under provisions of the Public Utilities Article, § 25-106, Annotated Code of Maryland. (Amended during 2019 codification; CUS 98-01 § 5)

5.90.060 Authority clause.

The General Counsel certifies that the statutory authority for adoption of the standard procedure codified in this chapter is the Public Utilities Article, § 17-403 and § 25-401 et seq., Annotated Code of Maryland. (Amended during 2019 codification; CUS 98-01)

APPENDIX "A"

FINANCIAL GUARANTY BOND

Plumbing Permit Number _____

Bond Number _____

Date Bond Executed _____

KNOW ALL MEN BY THESE PRESENTS:

That _____,
(here insert the legal name of the Applicant)

_____,
(here insert the address of the Applicant)

as Principal, hereinafter called "Applicant", and

_____,
(here insert the legal name of the Surety)

_____,
(here insert the address of the Surety)

as Surety, hereinafter called "Surety", are held and firmly bound unto the WASHINGTON SUBURBAN SANITARY COMMISSION, Laurel, Maryland, a public and governmental corporate agency of the State of Maryland, as Obligee, hereinafter called the "Commission", in the amount of

_____

_____ dollars ($_____), being 50 percent of the System Development Charge of the herein-mentioned application, for the payment whereof Applicant and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

WHEREAS, the Applicant has applied for a plumbing permit to install fixtures or hookup a residential property to the Commission's water and/or sewerage system(s) under Plumbing Permit No. _____ and has promised to pay the full system development charge within 12

months of the date of the application or prior to the transfer of title to the property, whichever occurs first.

NOW, THEREFORE, the condition of this obligation is such that if the Applicant shall promptly and faithfully pay the system development charge in a timely manner, then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Commission.

Whenever Applicant shall be, and declared by Commission to be, in default in payment of the system development charge, the Commission having performed Commission's obligations thereunder, the Surety shall promptly pay the amount owed by the Applicant to the Commission.

Any suit under this bond must be instituted before the expiration of eighteen (18) months from the date payment is due. No right of action shall accrue on this bond to or for the use of any person or corporation other than the Commission or its successors and assigns.

The bond is executed in two (2) counterparts, each of which shall, without proof or accounting for the other counterpart, be deemed an original thereof.

Signed and sealed this _____ day of _____,
_____.

_____
Applicant Name

ATTEST:

_____ By: _____
(Title)

_____
(Surety Name)

_____ By: _____
(Title)

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed, or caused to be executed by their duly authorized officials, this performance bond in (_____) copies each of which shall be deemed an original on the date first above written. (The following is applicable if applicant is corporation or incorporated joint venture.)

A Corporation _____

By: _____ Date: _____
(Title)

Attest: _____
Secretary of Corporation

Certificate as to Corporation (Corporate Seal)

I, _____, certify that I am Secretary of the Corporation named as Applicant herein, that _____ who signed this Performance Bond on behalf of the Applicant was then _____ of said Corporation; that I know his signature thereto is genuine; that the Bond was duly signed and sealed in behalf of said Corporation by authority of its governing body, and is within the scope of its corporate powers.

_____
Secretary of Corporation

(The following is applicable if Applicant is individual, partnership or unincorporated joint venture.)

Signed and Sealed in the full names of all partners and all members of Joint Ventures.

_____
(Print) Name (Signature)

_____
Address

_____
(Print) Name (Signature)

_____ _____
Address (Seal)

_____ _____
(Print) Name (Signature) (Seal)

_____
Address

_____
(Print) Name (Signature)

_____
Address

Chapter 11.10
PROCEDURE FOR DETERMINING PERCENT GROWTH FOR CIP PROJECTS

Sections:

11.10.010 Purpose and applicability.

The purpose of this chapter is to establish a method for determining what proportion of certain WSSC CIP projects is for growth. This chapter applies after June 30, 1993: (A) to projects which are added to the CIP; and (B) to any revisions of projects already programmed which change the amount of system capacity added by the projects. (PD 93-01 § I)

11.10.020 Procedure and methodology.

(a) The Water Resources Planning Section will determine the percent growth for all applicable CIP projects using the following methodology.

The method involves the following three steps:

(1) *Step 1 – Test for 100 Percent Growth.* If flows/demands remained at June 1993 levels, would a project still be required?

(i) No: Growth = 100 percent.

(ii) Yes: Continue to Step 2.

(2) *Step 2 – Test for Zero Percent Growth.* Does the project improve or replace components of an existing facility without increasing the capacity of any of the components?

(i) Yes: Growth = zero percent.

(ii) No: Continue to Step 3.

(3) *Step 3 – Determine Percent Growth.*

(i) Identify system capacity added by the project.

(ii) Identify and subtract June 30, 1993, capacity deficit, if any.

(iii) Divide result by total project design capacity.

(b) *Notes.*

(1) For most water and wastewater facilities, there is a straightforward relationship between demand, capacity requirements, and facility size. For water transmission mains, however, the relationship is more complicated. There are many factors other than size which must be considered to determine capacity. These factors include length, the size and number of interconnections and the allowable energy differential between the points connected by the transmission system. Capacity analysis of a transmission network normally requires computer modeling. Previous water system analyses will be used to the extent they are applicable; however, where no previous analysis exists, computer modeling will be required.

(2) If an existing facility with available system capacity is being replaced by a new project which increases total system capacity, the available capacity in the existing facility is lost or wasted. In such cases, existing available capacity will be treated as a negative deficit in subsection (a)(3)(ii) of this section.

(c) *Examples.*

(1) An existing sewer has a safe capacity of 20 mgd. The June 30, 1993, peak flow is 17 mgd. A proposed parallel sewer will add 10 mgd of capacity for growth. Since the existing sewer can handle the June 30, 1993, flows the project is 100 percent for growth (subsection (a)(1) of this section).

(2) An existing sewer has a safe capacity of 20 mgd; its maximum capacity before overflow is 27 mgd. The June 30, 1993, peak flow is 21 mgd. A proposed parallel sewer will add 10 mgd of capacity for growth. Since the existing sewer can handle the June 30, 1993, flows, the project is 100 percent for growth (subsection (a)(1) of this section).

(3) An existing pumping station has 1 mgd of capacity. The June 30, 1993, flow is 0.8 mgd. A proposed replacement pumping station will have a total capacity of 1.5 mgd. The existing pumping station is old, and a rehab project would be needed if the new pumping station were not built. Therefore, the station is not 100 percent for growth (subsection (a)(1) of this section). It adds capacity, so it is not zero percent growth (subsection (a)(2) of this section). The percent for growth is calculated as follows: 0.5 mgd (the capacity added by the new pumping station) plus 0.2 mgd (the amount of lost available capacity) divided by 1.5 mgd (the total capacity of the new pumping station) = 47 percent (subsection (a)(3) of this section).

(4) An existing pumping station in good condition has 1 mgd of capacity. The June 30, 1993, flow is 0.8 mgd. A proposed replacement pumping station, located downstream to increase the service area, will have a total capacity of 1.5 mgd. The proposed pumping station is 100 percent for growth (subsection (a)(1) of this section).

(5) A pressure zone has a 1 mg storage deficit based on June 30, 1993, demands. When we finally get agreement to build a 3 mg tank in the zone, the deficit has risen to 2 mg. The tank is 66.7 percent for growth (3 mg added – 1 mg deficit)/3 mg total capacity = 67.7 percent (subsection (a)(3) of this section). (PD 93-01 § II)

WSSC WATER PROPOSED FYs 2026 - 2031 CIP

SDC ELIGIBLE PROJECTS

(In Thousands)

PROGRAM NAME	TOTAL	THRU	ESTIMATE	TOTAL	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	BEYOND
		FY 2024	FY 2025	6 YEARS	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	
MONTGOMERY COUNTY WATER PROJECTS											
Total Project Costs*	$ 21,145	$ 1214	$ 13110	$ 6,821	$ 5,483	$ 617	$ 309	$ 206	$ 104	$ 102	$ 0
SDC Eligible Costs†	$ 21,145	$ 1214	$ 13110	$ 6,821	$ 5,483	$ 617	$ 309	$ 206	$ 104	$ 102	$ 0
BI-COUNTY WATER PROJECTS											
Total Project Costs	115,030	819	895	113,316	2,085	2,174	19,236	35,836	35,836	18,149	0
SDC Eligible Costs	69,376	1,178	1289	66,909	1,283	1,283	11,349	21,143	21,143	10,708	0
PRINCE GEORGE'S COUNTY WATER PROJECTS											
Total Project Costs	142,484	38,943	28,945	74,596	16,519	14,841	11,371	10,707	10605	10553	0
SDC Eligible Costs	104,531	37,101	28,841	38,589	15,994	7,391	4,337	3,673	3606	3588	0
TOTAL WATER PROJECT COSTS	**278,659**	**40,976**	**42,950**	**194,733**	**24,087**	**17,632**	**30,916**	**46,749**	**46,545**	**28,804**	**0**
TOTAL WATER SDC ELIGIBLE COSTS	**195,052**	**39,493**	**43,240**	**112,319**	**22,760**	**9,291**	**15,995**	**25,022**	**24,853**	**14,398**	**0**
MONTGOMERY COUNTY SEWER PROJECTS											
Total Project Costs	46,973	2,952	7,737	36,284	12,007	5,981	5,784	5,690	5,386	1,436	0
SDC Eligible Costs	8,158	1,750	6,152	256	8,008	4,935	4,855	4,377	4,073	1,222	0
BI-COUNTY SEWER PROJECTS											
Total Project Costs	86,309	8,371	4,380	73,558	31,367	33,902	7,704	195	195	195	0
SDC Eligible Costs	7,406	2355	811	4,240	2,507	1,733	0	0	0	0	0
PRINCE GEORGE'S COUNTY SEWER PROJECTS											
Total Project Costs	66,109	14,473	10,465	41,171	13,138	8,588	10,331	8,989	63	62	0
SDC Eligible Costs	60,975	13,532	9,458	37,985	12,585	8,025	9,294	7,956	63	62	0
TOTAL SEWER PROJECT COSTS	**199,391**	**25,796**	**22,582**	**151,013**	**56,512**	**48,471**	**23,819**	**14,874**	**5,644**	**1,693**	**0**
TOTAL SEWER SDC ELIGIBLE COSTS	**76,539**	**17,637**	**16,421**	**42,481**	**23,100**	**14,693**	**14,149**	**12,333**	**4,136**	**1,284**	**0**
INFORMATION ONLY PROJECTS											
Total Project Costs	0	0	0	0	0	0	0	0	0	0	0
SDC Eligible Costs	0	0	0	0	0	0	0	0	0	0	0
TOTAL PROJECT COSTS	**$ 478,050**	**$ 66,772**	**$ 65,532**	**$ 345,746**	**$ 80,599**	**$ 66,103**	**$ 54,735**	**$ 61,623**	**$ 52,189**	**$ 30,497**	**$ 0**
TOTAL SDC ELIGIBLE COSTS	**$ 271,591**	**$ 57,130**	**$ 59,661**	**$ 154,800**	**$ 45,860**	**$ 23,984**	**$ 30,144**	**$ 37,355**	**$ 28,989**	**$ 15,682**	**$ 0**

*Total Project Costs - This is the total cost for all projects needed to support growth.

†SDC Eligible Costs - That portion of the total project costs that is specifically for growth (i.e., if a project supports 50% growth and 50% system improvements, the SDC eligible costs refer only to the 50% growth

WSSC WATER PROPOSED FYs 2026 - 2031 CIP
SDC ELIGIBLE PROJECTS
(In Thousands)

PROJECT NUMBER	PROJECT NAME	TOTAL COST	THRU FY 2024	ESTIMATE FY 2025	TOTAL 6 YEARS	YEAR 1 FY 2026	YEAR 2 FY 2027	YEAR 3 FY 2028	YEAR 4 FY 2029	YEAR 5 FY 2030	YEAR 6 FY 2031	BEYOND 6 YEARS
MONTGOMERY COUNTY WATER PROJECTS												
W - 00003.04	Fraley Farm West Water Main	$ 917	$ 0	$ 0	$ 917	$ 917	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0
	TOTAL GROWTH COSTS	$ 917	$ 0	$ 0	$ 917	$ 917	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0
W - 000113.20	White Oak Water Mains Augmentation	10,965	607	6512	3,846	3,744	102	0	0	0	0	0
	TOTAL GROWTH COSTS	10,965	607	6512	3,846	3,744	102	0	0	0	0	0
W - 000113.21	Viva White Oak Water Main	9,263	607	6598	2,058	822	515	309	206	104	102	0
	TOTAL GROWTH COSTS	9,263	607	6598	2,058	822	515	309	206	104	102	0
SUBTOTAL MONTGOMERY COUNTY WATER PROJECTS		**$ 21,145**	**$ 1214**	**$ 13,110**	**$ 6,821**	**$ 5,483**	**$ 617**	**$ 309**	**$ 206**	**$ 104**	**$ 102**	**$ 0**
SUBTOTAL MONTGOMERY COUNTY WATER SDC ELIGIBLE		**$ 21,145**	**$ 1214**	**$ 13,110**	**$ 6,821**	**$ 5,483**	**$ 617**	**$ 309**	**$ 206**	**$ 104**	**$ 102**	**$ 0**

WSSC WATER PROPOSED FYs 2026 - 2031 CIP
SDC ELIGIBLE PROJECTS
(In Thousands)

PROJECT NUMBER	PROJECT NAME	TOTAL COST	THRU FY 2024	ESTIMATE FY 2025	TOTAL 6 YEARS	YEAR 1 FY 2026	YEAR 2 FY 2027	YEAR 3 FY 2028	YEAR 4 FY 2029	YEAR 5 FY 2030	YEAR 6 FY 2031	BEYOND 6 YEARS
BI-COUNTY WATER PROJECTS												
W - 000073.32	Potomac WFP Main Zone Pipeline	$ 115,030	$ 819	$ 895	$ 113,316	$ 2,085	$ 2,174	$ 19,236	$ 35,836	$ 35,836	$ 18,149	$ 0
	TOTAL GROWTH COSTS	$ 69,376	$ 1,178	$ 1289	$ 66,909	$ 1,283	$ 1,283	$ 11,349	$ 21,143	$ 21,143	$ 10,708	$ 0
SUBTOTAL BI-COUNTY WATER PROJECTS		**$ 115,030**	**$ 819**	**$ 895**	**$ 113,316**	**$ 2,085**	**$ 2,174**	**$ 19,236**	**$ 35,836**	**$ 35,836**	**$ 18,149**	**$ 0**
SUBTOTAL BI-COUNTY WATER SDC ELIGIBLE COSTS		**$ 69,376**	**$ 1,178**	**$ 1289**	**$ 66,909**	**$ 1,283**	**$ 1,283**	**$ 11,349**	**$ 21,143**	**$ 21,143**	**$ 10,708**	**$ 0**

WSSC WATER PROPOSED FYs 2026 - 2031 CIP
SDC ELIGIBLE PROJECTS
(In Thousands)

PROJECT NUMBER	PROJECT NAME	TOTAL COST	THRU FY 2024	ESTIMATE FY 2025	TOTAL 6 YEARS	YEAR 1 FY 2026	YEAR 2 FY 2027	YEAR 3 FY 2028	YEAR 4 FY 2029	YEAR 5 FY 2030	YEAR 6 FY 2031	BEYOND 6 YEARS
PRINCE GEORGE'S COUNTY WATER PROJECTS												
W - 000034.02	Old Branch Avenue Water Main	$ 17,338	$ 12,078	$ 5,250	$ 10	$ 10	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0
	TOTAL GROWTH COSTS	$ 17,333	$ 12,078	$ 5,250	$ 5	$ 5	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0
W - 000034.04	Branch Avenue Water Transmission Improvements	59,690	22,778	21,079	15,833	13,706	2,121	6	0	0	0	0
	TOTAL GROWTH COSTS	59,690	22,778	21,079	15,833	13,706	2,121	6	0	0	0	0
W - 000084.03	Smith Home Farms Water Main	2,461	640	454	1,367	454	455	458	0	0	0	0
	TOTAL GROWTH COSTS	2,461	640	454	1,367	454	455	458	0	0	0	0
W - 000084.04	Westphalia Town Center Water Main	2,474	223	1,168	1,083	495	290	249	49	0	0	0
	TOTAL GROWTH COSTS	2,474	223	1,168	1,083	495	290	249	49	0	0	0
W - 000093.01	Konterra Town Center East Water Main	3,022	433	836	1,753	1,066	687	0	0	0	0	0
	TOTAL GROWTH COSTS	3,022	433	836	1,753	1,066	687	0	0	0	0	
W - 000137.03	South Potomac Supply Improvement, Phase 2	57,499	2,791	158	54,550	788	11,288	10,658	10,658	10,605	10,553	0
	TOTAL GROWTH COSTS	19,551	949	54	18,548	268	3,838	3,624	3,624	3,606	3,588	0
SUBTOTAL PRINCE GEORGE'S COUNTY WATER PROJECTS		**$ 142,484**	**$ 38,943**	**$ 28,945**	**$ 74,596**	**$ 16,519**	**$ 14,841**	**$ 11,371**	**$ 10,707**	**$ 10605**	**$ 10553**	**$ 0**
SUBTOTAL PRINCE GEORGE'S COUNTY WATER SDC ELIGIBLE		**$ 104,531**	**$ 37,101**	**$ 28,841**	**$ 38,589**	**$ 15,994**	**$ 7,391**	**$ 4,337**	**$ 3,673**	**$ 3606**	**$ 3588**	**$ 0**

WSSC WATER PROPOSED FYs 2026 - 2031 CIP
SDC ELIGIBLE PROJECTS
(In Thousands)

PROJECT NUMBER	PROJECT NAME	TOTAL COST	THRU FY 2024	ESTIMATE FY 2025	TOTAL 6 YEARS	YEAR 1 FY 2026	YEAR 2 FY 2027	YEAR 3 FY 2028	YEAR 4 FY 2029	YEAR 5 FY 2030	YEAR 6 FY 2031	BEYOND 6 YEARS
MONTGOMERY COUNTY SEWER PROJECTS												
S - 000063.08	Sam Rice Manor WWPS & FM	$ 7,470	$ 167	$ 152	$ 7,151	$ 308	$ 259	$ 259	$ 2530	$ 2,530	$ 1,265	$ 0
	TOTAL GROWTH COSTS	$ 6,206	$ 139	$ 126	$ 5,941	$ 256	$ 215	$ 215	$ 2,102	$ 2,102	$ 1,051	$ 0
S - 000083.07	Ashford Woods WWPS & FM	3814	282	1396	2136	1257	879	0	0	0	0	0
	TOTAL GROWTH COSTS	3814	282	1396	2136	1257	879	0	0	0	0	0
S - 000085.22	Shady Grove Neighborhood Center	1702	0	0	1702	681	426	255	170	85	85	0
	TOTAL GROWTH COSTS	1702	0	0	1702	681	426	255	170	85	85	0
S - 000085.23	Johns Hopkins Medical Research Park Sewer Main	6713	0	2607	4106	851	1377	1878	0	0	0	0
	TOTAL GROWTH COSTS	6713	0	2607	4106	851	1377	1878	0	0	0	0
S - 000094.13	Damascus Town Center WWPS Replacement	10133	1181	1977	6975	5725	1250	0	0	0	0	0
	TOTAL GROWTH COSTS	3217	354	587	2276	1903	373	0	0	0	0	0
S - 000094.14	Spring Gardens WWPS Replacement	10357	1047	510	8800	375	375	2683	2683	2684	0	0
	TOTAL GROWTH COSTS	6936	700	341	5895	250	250	1798	1798	1799	0	0
S - 000103.17	Rose Village Sewer Main	1885	0	63	1822	943	565	181	133	0	0	0
	TOTAL GROWTH COSTS	1885	0	63	1822	943	565	181	133	0	0	0
S - 000118.09	Viva White Oak Sewer Main	1738	0	0	1738	696	434	261	174	87	86	0
	TOTAL GROWTH COSTS	1738	0	0	1738	696	434	261	174	87	86	0
S - 000151.02	Erickson Bethesda Sewer Main	3161	275	1032	1854	1171	416	267	0	0	0	0
	TOTAL GROWTH COSTS	3161	275	1032	1854	1171	416	267	0	0	0	0
SUBTOTAL MONTGOMERY COUNTY SEWER PROJECTS		**$ 46,973**	**$ 2,952**	**$ 7,737**	**$ 36,284**	**$ 12,007**	**$ 5,981**	**$ 5,784**	**$ 5,690**	**$ 5,386**	**$ 1,436**	**$ 0**
SUBTOTAL MONTGOMERY COUNTY SEWER SDC ELIGIBLE		**$ 8,158**	**$ 1,750**	**$ 6,152**	**$ 256**	**$ 8,008**	**$ 4,935**	**$ 4,855**	**$ 4,377**	**$ 4,073**	**$ 1,222**	**$ 0**

WSSC WATER PROPOSED FYs 2026 - 2031 CIP

SDC ELIGIBLE PROJECTS

(In Thousands)

PROJECT NUMBER	PROJECT NAME	TOTAL COST	THRU FY 2024	ESTIMATE FY 2025	TOTAL 6 YEARS	YEAR 1 FY 2026	YEAR 2 FY 2027	YEAR 3 FY 2028	YEAR 4 FY 2029	YEAR 5 FY 2030	YEAR 6 FY 2031	BEYOND 6 YEARS
BI-COUNTY SEWER PROJECTS												
S - 000089.24	Anacostia #2 WWPS Upgrades	$ 84,636	$ 8,371	$ 3,980	$ 72,285	$ 31,069	$ 33,707	$ 7,509	$ 0	$ 0	$ 0	$ 0
	TOTAL GROWTH COSTS	$ 7,346	$ 2,355	$ 811	$ 4,180	$ 2,447	$ 1,733	$ 0	$ 0	$ 0	$ 0	$ 0
S - 000203.00	Land & Rights-of-Way Acquisition - Bi-County Sewer	1673	0	400	1273	298	195	195	195	195	195	0
	TOTAL GROWTH COSTS	60	0	0	60	60	0	0	0	0	0	0
SUBTOTAL BI-COUNTY SEWER PROJECTS		**$ 86,309**	**$ 8,371**	**$ 4,380**	**$ 73,558**	**$ 31,367**	**$ 33,902**	**$ 7,704**	**$ 195**	**$ 195**	**$ 195**	**$ 0**
SUBTOTAL BI-COUNTY SEWER SDC ELIGIBLE COSTS		**$ 7,406**	**$ 2355**	**$ 811**	**$ 4,240**	**$ 2507**	**$ 1733**	**$ 0**	**$ 0**	**$ 0**	**$ 0**	**$ 0**

WSSC WATER PROPOSED FYs 2026 - 2031 CIP
SDC ELIGIBLE PROJECTS
(In Thousands)

PROJECT NUMBER	PROJECT NAME	TOTAL COST	THRU FY 2024	ESTIMATE FY 2025	TOTAL 6 YEARS	YEAR 1 FY 2026	YEAR 2 FY 2027	YEAR 3 FY 2028	YEAR 4 FY 2029	YEAR 5 FY 2030	YEAR 6 FY 2031	BEYOND 6 YEARS
PRINCE GEORGE'S COUNTY SEWER PROJECTS												
S - 000027.08	Westphalia Town Center Sewer Main	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0
	TOTAL GROWTH COSTS	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0
S - 000028.18	Konterra Town Center East Sewer	9,063	4,853	0	4,210	4,210	0	0	0	0	0	0
	TOTAL GROWTH COSTS	9,063	4,853	0	4,210	4,210	0	0	0	0	0	0
S - 000075.23	Brandywine Woods WWPS & FM	3,859	0	320	3,539	1,369	1,271	735	164	0	0	0
	TOTAL GROWTH COSTS	3,859	0	320	3,539	1,369	1,271	735	164	0	0	0
S - 000087.19	Horsepen WWPS & FM	32,620	7,942	5,699	18,979	1,594	4,763	6,328	6,294	0	0	0
	TOTAL GROWTH COSTS	29,358	7,148	5,130	17,080	1,434	4,286	5,695	5,665	0	0	0
S - 000087.20	Freeway Airport WWPS & FM	3,876	2	320	3,554	1,377	1,280	737	160	0	0	0
	TOTAL GROWTH COSTS	3,876	2	320	3,554	1,377	1,280	737	160	0	0	0
S - 000113.13	Forest Heights WWPS & FM	10,405	816	2,438	7,151	2,183	477	2,245	2,246	0	0	0
	TOTAL GROWTH COSTS	8,533	669	2,000	5,864	1,790	391	1,841	1,842	0	0	0
S - 000118.10	Viva White Oak Sewer Augmentation	1,253	0	0	1,253	501	313	189	125	63	62	0
	TOTAL GROWTH COSTS	1,253	0	0	1,253	501	313	189	125	63	62	0
S - 000131.05	Pleasant Valley Sewer Main, Part 2	1,059	0	254	805	501	207	97	0	0	0	0
	TOTAL GROWTH COSTS	1,059	0	254	805	501	207	97	0	0	0	0
S - 000131.07	Pleasant Valley Sewer Main, Part 1	2,095	0	590	1,505	1,228	277	0	0	0	0	0
	TOTAL GROWTH COSTS	2,095	0	590	1,505	1,228	277	0	0	0	0	0
S - 000131.11	Calm Retreat Sewer Main	1,011	860	151	0	0	0	0	0	0	0	0
	TOTAL GROWTH COSTS	1,011	860	151	0	0	0	0	0	0	0	0
S - 000131.14	National View Sewer Main	868	0	693	175	175	0	0	0	0	0	0
	TOTAL GROWTH COSTS	868	0	693	175	175	0	0	0	0	0	0
SUBTOTAL PRINCE GEORGE'S COUNTY SEWER PROJECTS		**$ 66,109**	**$ 14,473**	**$ 10,465**	**$ 41,171**	**$ 13,138**	**$ 8,588**	**$ 10,331**	**$ 8,989**	**$ 63**	**$ 62**	**$ 0**
SUBTOTAL PRINCE GEORGE'S COUNTY SEWER SDC ELIGIBLE COSTS		**$ 60,975**	**$ 13,532**	**$ 9,458**	**$ 37,985**	**$ 12,585**	**$ 8,025**	**$ 9,294**	**$ 7,956**	**$ 63**	**$ 62**	**$ 0**


WSSCWATER
DELIVERING THE ESSENTIAL