

FY 2022 - FY 2026



# CAPITAL IMPROVEMENT PROGRAM

Approved  
June 10, 2021

**CAPITAL IMPROVEMENT PROGRAM  
FISCAL YEARS 2022 - 2026**



**Service Authority**  
Prince William County

*June 10, 2021*

# CAPITAL IMPROVEMENT PROGRAM

## FISCAL YEARS 2022 – 2026



**Service Authority**  
Prince William County

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# CAPITAL IMPROVEMENT PROGRAM

## FISCAL YEARS 2022-2026

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# CAPITAL IMPROVEMENT PROGRAM

## PURPOSE

The Capital Improvement Program (CIP) is presented annually to the Board of Directors as a planning document for the express purpose of identifying future capital projects and schedules of capital project activity as projected by all Divisions within the Service Authority. The CIP Program is not intended to commit funding but sets planning level project budgets, identifies funding sources, approximates funding allocation and estimates the project schedules.

The timing of many projects is heavily dependent on development activity throughout various areas of the county. As often occurs, CIP projects may be postponed due to reprioritization of other projects or low development activity in a specific area. Preliminary engineering design and the purchase of needed land can be initiated as a phased and timely effort in advance of development activity to prevent delays in construction when the associated development occurs. The General Manager may adjust the timing and spending schedule for projects in accordance with the Service Authority's budget transfer policy for CIP projects.

All contracts related to the CIP are approved in accordance with the Service Authority Purchasing Regulations and project funds are encumbered through the Purchase Order process. As projects can span several fiscal years, unspent encumbered funds are rolled over to the next fiscal year at the end of each fiscal year. Note that for accounting purposes, any projects not resulting in a capital asset, or any costs that do not meet the accounting criteria to be capitalized will be reclassified from capital to expense, as a year-end closing adjustment. The CIP is updated on an annual basis to reflect the latest project priorities, cost estimates and spending schedules.

## CIP DOCUMENT FORMAT

The CIP is presented for a five-year cycle for Fiscal Years 2022 through 2026 in three sections: Section A (Program Summary), Section B (Project Data Sheets), and Section C (Project Maps). The following discussion describes the contents of each Section within this report.

### Section A - Program Summary

This section provides a financial summary of each project including the project's expenditures prior to FY22, proposed expenditure schedule and respective funding source. Several projects in this year's CIP will be funded through a bond issue – these are identified with an asterisk in the project name. The first three pages of this section provide overall program summaries including: totals for all projects, totals for debt funded projects, and totals for non-debt funded projects. The projects are organized into categories, which are defined in Table 1, CIP Project Categories.

This section includes all existing and proposed CIP projects that have design or construction activity in the current five-year cycle. Projects constructed by developers and contributed to the Service Authority are not included in the document, unless the project comprises a system improvement in which the Service Authority plans to participate in financially.

## **CIP PROJECT CATEGORIES**

The CIP is organized with respect to project categories. This arrangement facilitates locating project data sheets for comparison or study. The functional categories are listed in Table 1 below.

**Table 1. CIP Project Categories**

<b>Project Category</b>	<b>Description</b>
<b>Water Supply Projects (WSUP)</b>	Booster pumping stations and water supply projects are presented under this category.
<b>Water Storage Tank Projects (WST)</b>	This project category includes tank design, construction, maintenance and rehabilitation programs. Tanks maintain system pressures, provide fire and reserve storage, and provide water during peak demands.
<b>Water Transmission Projects (WAT)</b>	Water main projects are presented under this category. Transmission mains are pipes sized 16-inches and larger to convey large volumes of water to booster pumping stations, storage tanks and regional demand areas. Distribution mains are pipes sized 12-inches and smaller to provide water service and fire protection to localized areas.
<b>Sewage Pumping Stations Projects (SPS)</b>	This category includes replacements, upgrades or modifications to existing sewage pumping stations and associated force mains to meet future capacity needs within the sewer shed, improve safety conditions and to continue meeting DEQ regulations. Sewage pumping stations pump sewage from a low point in one gravity sewer shed to another gravity sewer shed for conveyance to either the Upper Occoquan Service Authority (UOSA) or H.L. Mooney Advanced Water Reclamation Facility (AWRF).
<b>Sewage Collection System Projects (SEW)</b>	New sewer mains and replacement/upgrades to existing sewer mains that convey sewage from commercial and residential customers to sewage pumping stations or water reclamation facilities are presented under this category.
<b>Water Reclamation Facility Projects (WRF)</b>	Construction projects and facility modifications at the H.L. Mooney AWRF are presented in this category.
<b>Miscellaneous Projects (MISC)</b>	Projects that are not directly related to any of the previous six categories are included in this section. Several projects include upgrades or expansions to office complexes and maintenance facilities.
<b>Information Technology (IT)</b>	Projects that involve improvements to Information Technology application, infrastructure, security, support, and data analytics are presented in this category. Examples include: financial systems, work order management, and Supervisory Control and Data Acquisition (SCADA) upgrades and modifications; IT server, database, and communications equipment upgrades; and system integration and business analytics software improvements.
<b>Regional Utility Projects (REG)</b>	Major expansion or upgrades to regional treatment facilities at which the Service Authority has purchased capacity rights, such as UOSA's Water Reclamation Facility and the City of Manassas' and/or Fairfax Water's Water Treatment Plant are presented under this category. This category also includes a new Occoquan River crossing to increase transmission capacity and reliability of the potable water supply to eastern Prince William County.

## **Section B – Project Data Sheets**

This section provides detailed information for each CIP project, which are grouped by project category. Table 2 defines all the information included on the project’s data sheet.

**Table 2. CIP Project Data Sheet Fields**

<b>Data Sheet Field</b>	<b>Description</b>
<b>Project Title</b>	Provides a name for the project.
<b>Project CIP</b>	Identifies the project category and “Engineering” project number(s).
<b>JDE Job Number(s)</b>	The job cost coding to be utilized within JD Edwards tracking system.
<b>Location</b>	A description of where the project will be located in Prince William County.
<b>Pressure Zone</b>	This identifies the Pressure Zone, Sewershed and Magisterial District where the project will occur. If the project is marked as “multiple”, this indicates that the project falls within more than one area of service.
<b>Sewershed</b>	
<b>Magisterial District</b>	
<b>Project Description</b>	The scope and/or justification of the project are identified.
<b>Project Benefit</b>	The benefit of the project is described.
<b>Source Derivation</b>	Details the engineering/planning study, wherein the project need was identified. In some cases, in-house analyses have recommended projects and these are identified by the respective Division.
<b>Estimate By</b>	Identifies the Division within the Service Authority and/or Engineering Consultant that prepared the cost estimate.
<b>Project Estimate</b>	The annual estimated spending amounts and totals shown are in thousands of dollars (\$1,000’s).
	An "Order of Magnitude" estimate is generally used in the early stages of a project when only concepts, maps and historical project data are available, without the benefit of detailed engineering reports or preliminary plans. Order of Magnitude Estimates are also appropriate when anticipated construction is beyond the five-year period of the CIP. As such, “Order of Magnitude” cost estimates are accurate within +50 and -30 percent.
	When available, more accurate cost estimates as a result of a Preliminary Engineering Report (PER), Consultant’s Opinion of Probable Construction Costs (OPCC) or the Contract Award cost are utilized.

**Table 2. CIP Project Data Sheet Fields (cont.)**

<b>Data Sheet Field</b>	<b>Description</b>
<b>Proposed Funding Sources</b>	This section provides the estimated breakdown of funding of the total cost by Fund, e.g. Expansion Fund 02 – from Availability Fees, Commitment Fund 03 – from Availability Fees, Replacement Fund 04 – from User Rates, Other Contributions or Developer Contributions. The allocations may vary from the initial estimates.
<b>Project Total</b>	Total project costs include anticipated land acquisition, design and construction costs, and Service Authority inspection and project management costs. A review of the construction and materials costs over the previous year has indicated increases, and consequently, estimates from the previous year's CIP have been adjusted upward for inflation this year. The conservative nature of the estimates will absorb these minor increases for ensuing years.
<b>Project Map</b>	Maps are produced from the Service Authority's Mapping System. The maps are annotated to detail information about the various projects. Photographs are also used for many countywide type projects.

**Section C – Project Maps**

This section provides overall county maps showing the location of the projects, giving the “big picture” of the Capital Improvement Program. The maps prove useful when correlating the information about pressure zone and sewershed on the project data sheet with the project’s location in Prince William County.

**CIP PROJECT PRIORITIZATION**

The Service Authority’s Strategic Plan plays an ongoing critical role in the management and operations of the Service Authority. All CIP projects must align with the Service Authority’s immediate business needs and remain well aligned with the short and long-term outcomes the Service Authority strives to achieve.

Each CIP project requires a business case that documents its alignment with the Strategic Plan Areas of Excellence, Strategic Objectives, and Strategic Goals. In addition, CIP projects are prioritized according to the CIP Project Prioritization Criteria shown in Table 3 below. The prioritization process involves round table evaluation and scoring of CIP projects by the Service Authority’s Work Coordination Council (WCC), consisting of Service Authority leadership and subject matter experts. The WCC uses the outcomes of this evaluation process in conjunction with consideration of available funding to develop the CIP fiscal year schedule, as reflected in Section A (CIP Program Summary).

**Table 3 - CIP Project Prioritization Criteria**

<b>Criteria</b>	<b>Criteria/Factors</b>	<b>Criteria Description and Objectives</b>
<b>1</b>	<b>Physical Condition of Asset</b> <ul style="list-style-type: none"> <li>• Physical Condition Assessment</li> <li>• Operating/Maintenance History</li> <li>• Probability/Consequence of Failure</li> <li>• Age/Useful Life</li> </ul>	Protect the health, safety and service to customers by replacing assets or information systems that have a high risk of failure due to age, condition or obsolescence.
<b>2</b>	<b>Regulatory/Environmental Requirements</b> <ul style="list-style-type: none"> <li>• Permit/Regulatory Compliance</li> <li>• Water Quality</li> <li>• Health and Safety</li> <li>• Environmental Impact</li> <li>• Compliance Data Accuracy</li> </ul>	Protect public health and the environment by reducing the risk of regulatory non-compliance or negative environmental impact due to the failure of an asset or information system.
<b>3</b>	<b>Service Level/Reliability Requirements</b> <ul style="list-style-type: none"> <li>• Workforce Productivity</li> <li>• Service interruption History</li> <li>• Health and Safety Risks</li> <li>• Water and Air Quality</li> <li>• Water Main Breaks or Sewer Backups</li> <li>• Noise or Odor Complaints</li> </ul>	Increase the reliability and redundancy of service to our customers by replacing and augmenting facilities and/or information systems that do not fully meet Service Authority standards.
<b>4</b>	<b>Capacity/Technical Obsolescence Issues</b> <ul style="list-style-type: none"> <li>• Workforce Productivity</li> <li>• Probability of Failure</li> <li>• Single Point of Failure</li> <li>• Customer Service Needs</li> <li>• Capacity for New Customers</li> <li>• Future Support for Equipment/Systems</li> </ul>	Meet current and future technical, capacity, operational, health, safety, security and level of service requirements.
<b>5</b>	<b>Operations and Maintenance Issues</b> <ul style="list-style-type: none"> <li>• Maintenance Requirements</li> <li>• Breakdowns and Downtime</li> <li>• Reactive Maintenance</li> <li>• Equipment Obsolescence</li> <li>• Manufacturer/Supplier Support</li> <li>• Labor and Operating Cost Savings</li> </ul>	Optimizing operational efficiency and reliability by replacing or enhancing the Service Authority's plant, water and sewer facilities and information systems.

## **FISCAL YEAR 2022 Summary of CIP Projects**

The following is a list of Projects slated for study, design or construction during Fiscal Year 2022.

<b><i>WATER SUPPLY PROJECTS</i></b>		
<b>CIP Number</b>	<b>PROJECT NAME</b>	<b>PROJECT LOCATION</b>
WSUP-103	Water Meter Vault Improvements	Commercial Meter Vault Locations
WSUP-105	Montclair/Four Seasons Water System Improvements	17361 Four Seasons Dr., Dumfries
WSUP-111	Bull Run Mountain Well Upgrades	Bull Run Upper & Lower and Evergreen Pressure Zones
WSUP-112	Manassas Southside Booster Pumping Station Upgrades	8170 Blooms Quarry Ln., Manassas
WSUP-114	Capital Meter Program	County Wide
WSUP-116	Unity Reed (F14) Booster Pumping Station and Discharge Main	8814 Rixlew Ln., Manassas
WSUP-117	Eastern Area Pressure Reducing Valves	MS06, MS27 and F06

<b><i>WATER STORAGE PROJECTS</i></b>		
<b>CIP Number</b>	<b>PROJECT NAME</b>	<b>PROJECT LOCATION</b>
WST-110	Water Storage Tank Rehabilitation Program	16751 Interstate Dr., Dumfries
WST-111	Tank Re-Chlorination Program	5895 Antioch Rd., Haymarket

<b><i>WATER TRANSMISSION PROJECTS</i></b>		
<b>CIP Number</b>	<b>PROJECT NAME</b>	<b>PROJECT LOCATION</b>
WAT-104	Potomac Shores Parkway Transmission Main	Rt. 234/Rt. 1 Intersection, Rt. 1 to River Heritage Blvd.
WAT-115	Dawkins Branch Transmission Main	University Boulevard from Sudley Manor Drive to Edmonston Drive
WAT-116	Montclair Pressure Zone Improvements-Rt 234	Brittany to First Mt Zion Baptist Church, Mt. Zion and Fortuna Shopping Center
WAT-129	Route 1 Water Main Reinforcement, North	Route 1, From Featherstone Road to Annapolis Way
WAT-137	Possum Point Road Water Main Replacement - Phase 1	Summer Duck Drive to Town Limits
WAT-143	Sudley Road Water Main Improvements – Phase 2	Sudley Road from Croatia Way to Balls Ford Road
WAT-181	Route 1 Transmission Main – Phase 1	Route 1 from Garfield BPS to Dumfries Road
WAT-182	Route 1 Transmission Main – Phase 2	Route 1 and Old Triangle Rd. from Dumfries Road to Fuller Heights Road
WAT-200	Water Distribution Asset Replacement Program	County Wide

<b><i>SEWAGE PUMPING STATION PROJECTS</i></b>		
<b>CIP Number</b>	<b>PROJECT NAME</b>	<b>PROJECT LOCATION</b>
SPS-100	Generator Replacement Program	County Wide
SPS-107	Replace Occoquan Forest Sewage Pumping Stations, OQL36 and OQL37	Split Rail Dr. and Ramblewood Tr.
SPS-108	Replace Nokesville Sewage Pumping Station, L20	12829 Fitzwater Dr., Nokesville
SPS-112	Replace Graham Park Sewage Pumping Station, L13	3196 Shoreview Rd., Dumfries
SPS-113	Heritage Hunt Sewage Pumping Station, L52 Replacement and Force Main Extension	6588 Alderwood Way, Gainesville
SPS-115	Belmont Sewage Pumping Station, L17 Replacement and Force Main Extension	13760 Dabney Rd., Woodbridge
SPS-118	Koon's Sewage Pumping Station, L28 Replacement	10640 Automotive Dr., Manassas
SPS-123	Spinnaker Court Sewage Pumping Station, L02 and Force Main Replacement	2280 Spinnaker Ct., Woodbridge
SPS-125	Occoquan Creek Sewage Pumping Station, L04 Rehabilitation	13221 Marina Way, Woodbridge
SPS-126	Piney Branch Sewage Pumping Station, L26 Demolition and Gravity Sewer Extension	8151 Piney Branch Ln., Gainesville

<b><i>SEWAGE COLLECTION PROJECTS</i></b>		
<b>CIP Number</b>	<b>PROJECT NAME</b>	<b>PROJECT LOCATION</b>
SEW-106	Dumfries Force Main and Water Main Replacement	Near Route 1, Dumfries
SEW-157	Sudley Road Sewer Main Replacement and Upgrade	Sudley Rd. to Williamson Blvd., South of I-66
SEW-158	I-66 Rest Area Sewer Main Replacement	Crossing at I-66 Rest Area
SEW-200	Sewer Collection Rehabilitation & Replacement Program	County Wide

<b><i>WATER RECLAMATION FACILITY PROJECTS</i></b>		
<b>CIP Number</b>	<b>PROJECT NAME</b>	<b>PROJECT LOCATION</b>
WRF-123	Ongoing Renewal and Replacement	H.L. Mooney AWRF
WRF-126	Dynamic Hydraulic Model and Instrumentation	H.L. Mooney AWRF
WRF-131	FBI and Solids Building Repairs and Modifications	H.L. Mooney AWRF
WRF-134	Bioreactor Basin Improvements	H.L. Mooney AWRF
WRF-138	Facility Wide Improvements – Design-Build Project	H.L. Mooney AWRF
WRF-142	Replace/Upgrade Freight Elevators	H.L. Mooney AWRF

<b>MISCELLANEOUS PROJECTS</b>		
<b>CIP Number</b>	<b>PROJECT NAME</b>	<b>PROJECT LOCATION</b>
MISC-100	Water and Sewer Master Plan Utility Adjustments (MPUA)	County Wide
MISC-101	PWCSA Water and Sewer Facility Security Enhancements	County Wide
MISC-103	PWCSA Facilities Renewals and Upgrades	County Wide
MISC-113	Occoquan Forest WWTP Closure & Site Restoration	5901 Davis Ford Rd., Manassas
MISC-114	System Wide Master Plan	County Wide
MISC-115	County Wide Emergency Capital Work	County Wide
MISC-117	Studies and PER's – Organization Wide	County Wide
MISC-200	Vehicle Replacement Program	County Wide
MISC-201	Mechanical Equipment Replacement Program	County Wide
MISC-202	Computer and Other Replacement Program	County Wide

<b>INFORMATION TECHNOLOGY PROJECTS</b>		
<b>CIP Number</b>	<b>PROJECT NAME</b>	<b>PROJECT LOCATION</b>
IT-105	JD Edwards Upgrade	County Wide
IT-106	Cayenta - CIS	County Wide
IT-107	Computerized Maintenance Management System (CMMS) Implementation	County Wide
IT-110	Document Management System Implementation	County Wide
IT-117	Vertical Asset Data Development	County Wide
IT-118	System Integration	County Wide
IT-121	Asset Management Analytics	County Wide
IT-122	Project Management Information System (PMIS) Implementation	County Wide
IT-125	IT Cybersecurity Program	County Wide
IT-126	SCADA System Upgrade	County Wide
IT-127	Web Content Management System Migration	County Wide

<b>REGIONAL UTILITY PROJECTS</b>		
<b>CIP Number</b>	<b>PROJECT NAME</b>	<b>PROJECT LOCATION</b>
REG-1	Occoquan River Crossing	Occoquan River at Griffith WTP

## **GLOSSARY OF TERMS AND ACRONYMS**

The following is a list of acronyms and abbreviations frequently used by Prince William County Service Authority

<i>Acronym/Abbreviation List</i>	
<b>PWCSA</b>	<b>Prince William County Service Authority</b>
<b>PWC</b>	<b>Prince William County</b>
<b>SA</b>	<b>Service Authority</b>
AWRF	Advanced Water Reclamation Facility
BAKER	Michael Baker International, Inc. (Engineers)
BI	Business Intelligence
BNR	Biological Nitrogen Removal
BOCS	Board of County Supervisors
BOD	PWCSA Board of Directors
BPS	Booster Pumping Station
CBA	Chesapeake Bay Agreement
CIP	Capital Improvement Program
CIP	Cast Iron Pipe
CIPP	Cured In-Place Pipe
CMMS	Computerized Maintenance Management System
COM	City of Manassas
COMP	City of Manassas Park
CSX	Chesapeake-Seaboard Corporation (Railroad)
Ct.	Court
DIP	Ductile Iron Pipe
Dr.	Drive
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FM	Force Main
FUND 02	Expansion Fund
FUND 03	Commitment Fund
FUND 04	Replacement Fund
FW	Fairfax Water
FY	Fiscal Year
GIS	Geographic Information System

*Acronym/Abbreviation List (Cont.)*

GPM	Gallons Per Minute
GPS	Global Positioning System
H&S	Hazen and Sawyer Environmental Engineers and Scientists
HDPE	High Density Polyethylene Pipe
HOA	Homeowner Association
HP	Horsepower
HVAC	Heating Ventilation Air Conditioning
I&I	Inflow and Infiltration
IT	Information Technology
LFC	Local Facilities Charge
Ln.	Lane
MCB	Marine Corps Base
MCBQ	Marine Corps Base, Quantico
MG	Million Gallons
MGD	Million Gallons Per Day
MHI	Multiple Hearth Incinerator
MISC	Miscellaneous
MPUA	Master Plan Utility Adjustment
N-S RWY	Norfolk-Southern Railway Company
NPDES	National Pollution Discharge Elimination System
O&M	Operations and Maintenance Division
OPCC	Opinion of Probable Construction Cost
PER	Preliminary Engineering Report
PES	Potomac Embayment Standards
PFR	Public Facilities Review
PH	Phase
PO	Purchase Order
PRV	Pressure Reducing Valve
PS	Pumping Station
PVC	Polyvinyl Chloride (Plastic Pipe)
PWP	Prince William Pipeline, Corp.

*Acronym/Abbreviation List (Cont.)*

PZ	Pressure Zone
RCP	Reinforced Concrete Pipe
RCS	Residual Control System
Rd.	Road
RDA	Rinker Design Associates (Engineers)
RF&P	Richmond, Fredericksburg and Petersburg Railroad
RK&K	Rummel, Klepper and Kahl Consulting Engineers
RPM	Revolutions Per Minute
SA	Service Authority
SCADA	Supervisory Control and Data Acquisition
SEW	Sewer (Collection Mains)
SPS	Sewage Pumping Station
SS	Sanitary Sewer
SSES	Sanitary Sewer Evaluation Study
SSO	Sanitary Sewer Overflow
TDH	Total Dynamic Head
Tr.	Terrace/Trail
UOSA	Upper Occoquan Service Authority
UV	Ultraviolet
VDEQ	Virginia Department of Environmental Quality
VDOT	Virginia Department of Transportation
WAT	Water (Transmission and Distribution)
WL	Water Line
WRA	Whitman, Requardt and Associates, LLP (Engineers)
WRF	Water Reclamation Facility (Now AWRF)
WST	Water Storage Tank
WSUP	Water Supply
WWTP	Wastewater Treatment Plant

***Water Pressure Zones***

BH	Bull Run Mountain High
BW	Bull Run Mountain Low
DT	Dumfries
EG	Evergreen
FW	Fairfax Water
GM	Greater Manassas
GW	Gainesville
HM	Haymarket
HO	Hoadly
LR	Lake Ridge
MO	Montclair
MS	Manassas Southside
OR	Oak Ridge
WL	Woodbridge

***Water Pressure Sub-Zones (Primary Zone)***

DV	Dominion Valley Boosted (Haymarket)
OF	Occoquan Forest Reduced (Hoadly)
PC	Powell's Creek Reduced (Dumfries)

*Sewersheds*

BM	Belmont
BR	Broad Run
BU	Bull Run
CB	Cabin Branch
CC	Catharpin Creek
DE	Deweys Branch
DM	Dumfries
FB	Flat Branch
FS	Featherstone
GD	Godwin Drive
HB	Holkums Branch
HR	Hoes Run
HS	Harbor Station
LB	Little Bull Run
LC	Little Creek
MR	Melrose
NB	North Branch
NE	Neabsco
NK	Nokesville
OC	Occoquan Creek
OQ	Occoquan Forest
OS	Occoquan Plant
OT	Occoquan Town
PB	Piney Branch
PC	Powells Creek
PU	Purcell Branch
RU	Russia Branch
WA	Airport
YS	Yorkshire

*Magisterial Districts*

BR	Brentsville
CO	Coles
GN	Gainesville
NE	Neabsco
OC	Occoquan
PO	Potomac
WB	Woodbridge

**CAPITAL IMPROVEMENT PROGRAM  
FISCAL YEARS 2022 - 2026**



**Service Authority**  
Prince William County

**SECTION A**

**PROGRAM SUMMARY**

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022-2026**

**FUNDING SOURCE SUMMARY - ALL PROJECTS**

	TOTAL EXPENDITURES (\$1,000's)	SPENDING SCHEDULE (\$1,000's)							BEYOND FY-26
		PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26		
<b>WATER SUPPLY PROJECTS (WSUP)</b>									
Exp Fund 002	12812	340	1148	3570	3480	919	355	3000	
Fund 003	5187	455	1453	2450	829	0	0	0	
Rep Fund 004	34067	1640	5650	10940	9233	2084	1520	3000	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>52065</b>	<b>2435</b>	<b>8250</b>	<b>16960</b>	<b>13542</b>	<b>3003</b>	<b>1875</b>	<b>6000</b>	
<b>WATER STORAGE PROJECTS (WST)</b>									
Exp Fund 002	10964	688	0	0	0	5138	5138	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	11764	2114	1650	2050	1950	2050	1950	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>22728</b>	<b>2802</b>	<b>1650</b>	<b>2050</b>	<b>1950</b>	<b>7188</b>	<b>7088</b>	<b>0</b>	
<b>WATER TRANSMISSION PROJECTS (WAT)</b>									
Exp Fund 002	12025	4091	863	1418	1365	878	1050	2361	
Fund 003	13682	1406	5500	6250	527	0	0	0	
Rep Fund 004	48174	8958	8413	9831	5912	8588	4900	1574	
Other	506	80	0	115	250	61	0	0	
<b>TOTAL</b>	<b>74387</b>	<b>14534</b>	<b>14775</b>	<b>17613</b>	<b>8053</b>	<b>9527</b>	<b>5950</b>	<b>3935</b>	
<b>SEWAGE PUMPING STATION PROJECTS (SPS)</b>									
Exp Fund 002	25345	1774	1790	7460	8855	3216	2250	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	65809	4701	6773	16348	24505	10833	2650	0	
Other	915	0	218	231	231	235	0	0	
<b>TOTAL</b>	<b>92069</b>	<b>6475</b>	<b>8780</b>	<b>24039</b>	<b>33591</b>	<b>14284</b>	<b>4900</b>	<b>0</b>	
<b>SEWER COLLECTION PROJECTS (SEW)</b>									
Exp Fund 002	4258	791	2867	600	0	0	0	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	13697	1179	3100	4669	1750	1500	1500	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>17955</b>	<b>1969</b>	<b>5967</b>	<b>5269</b>	<b>1750</b>	<b>1500</b>	<b>1500</b>	<b>0</b>	
<b>WATER RECLAMATION FACILITY PROJECTS (WRF)</b>									
Exp Fund 002	3452	636	415	465	555	690	690	0	
Fund 003	36436	136	2100	7200	10500	9900	6600	0	
Rep Fund 004	107372	3003	8369	20310	28520	27435	19735	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>147259</b>	<b>3775</b>	<b>10884</b>	<b>27975</b>	<b>39575</b>	<b>38025</b>	<b>27025</b>	<b>0</b>	
<b>MISCELLANEOUS PROJECTS (MISC)</b>									
Exp Fund 002	16212	964	1610	1485	4944	5539	1670	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	42410	3015	6373	7045	9927	10522	5528	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>58621</b>	<b>3979</b>	<b>7983</b>	<b>8530</b>	<b>14871</b>	<b>16061</b>	<b>7197</b>	<b>0</b>	
<b>INFORMATION TECHNOLOGY (IT)</b>									
Exp Fund 002	747	0	309	231	207	0	0	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	41227	6748	9788	7682	6955	4869	5185	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>41974</b>	<b>6748</b>	<b>10097</b>	<b>7913</b>	<b>7162</b>	<b>4869</b>	<b>5185</b>	<b>0</b>	
<b>REGIONAL UTILITY PROJECTS (REG)</b>									
Exp Fund 002	0	0	0	0	0	0	0	0	
Fund 003	4836	0	2100	2250	486	0	0	0	
Rep Fund 004	11283	0	4900	5250	1133	0	0	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>16119</b>	<b>0</b>	<b>7000</b>	<b>7500</b>	<b>1619</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>TOTAL EXPANSION FUND 002</b>	<b>85814</b>	<b>9284</b>	<b>9001</b>	<b>15229</b>	<b>19406</b>	<b>16381</b>	<b>11153</b>	<b>5361</b>	
<b>TOTAL COMMITMENT FUND 003</b>	<b>60140</b>	<b>1996</b>	<b>11153</b>	<b>18150</b>	<b>12341</b>	<b>9900</b>	<b>6600</b>	<b>0</b>	
<b>TOTAL REPLACEMENT FUND 004</b>	<b>375802</b>	<b>31357</b>	<b>55015</b>	<b>84124</b>	<b>89884</b>	<b>67880</b>	<b>42968</b>	<b>4574</b>	
<b>TOTAL DEVELOPER/OTHER FUND</b>	<b>1421</b>	<b>80</b>	<b>218</b>	<b>346</b>	<b>481</b>	<b>296</b>	<b>0</b>	<b>0</b>	
<b>GRAND TOTAL - ALL CIP PROJECTS</b>	<b>523177</b>	<b>42717</b>	<b>75386</b>	<b>117849</b>	<b>122113</b>	<b>94457</b>	<b>60720</b>	<b>9935</b>	

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022-2026**

**FUNDING SOURCE SUMMARY - DEBT FUNDED PROJECTS**

	TOTAL EXPENDITURES (\$1,000's)	SPENDING SCHEDULE (\$1,000's)						
		PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26	BEYOND FY-26
<b>WATER SUPPLY PROJECTS (WSUP)</b>								
Exp Fund 002	0	0	0	0	0	0	0	0
Fund 003	5187	455	1453	2450	829	0	0	0
Rep Fund 004	9632	845	2698	4550	1540	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>14819</b>	<b>1300</b>	<b>4150</b>	<b>7000</b>	<b>2369</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>WATER STORAGE PROJECTS (WST)</b>								
Exp Fund 002	0	0	0	0	0	0	0	0
Fund 003	0	0	0	0	0	0	0	0
Rep Fund 004	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>WATER TRANSMISSION PROJECTS (WAT)</b>								
Exp Fund 002	0	0	0	0	0	0	0	0
Fund 003	13682	1406	5500	6250	527	0	0	0
Rep Fund 004	13682	1406	5500	6250	527	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>27364</b>	<b>2811</b>	<b>11000</b>	<b>12500</b>	<b>1053</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SEWAGE PUMPING STATION PROJECTS (SPS)</b>								
Exp Fund 002	0	0	0	0	0	0	0	0
Fund 003	0	0	0	0	0	0	0	0
Rep Fund 004	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SEWER COLLECTION PROJECTS (SEW)</b>								
Exp Fund 002	0	0	0	0	0	0	0	0
Fund 003	0	0	0	0	0	0	0	0
Rep Fund 004	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>WATER RECLAMATION FACILITY PROJECTS (WRF)</b>								
Exp Fund 002	0	0	0	0	0	0	0	0
Fund 003	36436	136	2100	7200	10500	9900	6600	0
Rep Fund 004	85017	317	4900	16800	24500	23100	15400	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>121453</b>	<b>453</b>	<b>7000</b>	<b>24000</b>	<b>35000</b>	<b>33000</b>	<b>22000</b>	<b>0</b>
<b>MISCELLANEOUS PROJECTS (MISC)</b>								
Exp Fund 002	0	0	0	0	0	0	0	0
Fund 003	0	0	0	0	0	0	0	0
Rep Fund 004	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>INFORMATION TECHNOLOGY (IT)</b>								
Exp Fund 002	0	0	0	0	0	0	0	0
Fund 003	0	0	0	0	0	0	0	0
Rep Fund 004	21501	642	4685	3727	4435	3577	4435	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>21501</b>	<b>642</b>	<b>4685</b>	<b>3727</b>	<b>4435</b>	<b>3577</b>	<b>4435</b>	<b>0</b>
<b>REGIONAL UTILITY PROJECTS (REG)</b>								
Exp Fund 002	0	0	0	0	0	0	0	0
Fund 003	4836	0	2100	2250	486	0	0	0
Rep Fund 004	11283	0	4900	5250	1133	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>16119</b>	<b>0</b>	<b>7000</b>	<b>7500</b>	<b>1619</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL EXPANSION FUND 002</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL COMMITMENT FUND 003</b>	<b>60140</b>	<b>1996</b>	<b>11153</b>	<b>18150</b>	<b>12341</b>	<b>9900</b>	<b>6600</b>	<b>0</b>
<b>TOTAL REPLACEMENT FUND 004</b>	<b>141116</b>	<b>3210</b>	<b>22683</b>	<b>36577</b>	<b>32135</b>	<b>26677</b>	<b>19835</b>	<b>0</b>
<b>TOTAL DEVELOPER/OTHER FUND</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL - DEBT FUNDED PROJECTS</b>	<b>201256</b>	<b>5206</b>	<b>33835</b>	<b>54727</b>	<b>44476</b>	<b>36577</b>	<b>26435</b>	<b>0</b>

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022-2026  
FUNDING SOURCE SUMMARY - NON DEBT FUNDED PROJECTS**

	TOTAL EXPENDITURES (\$1,000's)	SPENDING SCHEDULE (\$1,000's)							BEYOND FY-26
		PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26		
<b>WATER SUPPLY PROJECTS (WSUP)</b>									
Exp Fund 002	12812	340	1148	3570	3480	919	355	3000	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	24435	795	2953	6390	7693	2084	1520	3000	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>37246</b>	<b>1135</b>	<b>4100</b>	<b>9960</b>	<b>11173</b>	<b>3003</b>	<b>1875</b>	<b>6000</b>	
<b>WATER STORAGE PROJECTS (WST)</b>									
Exp Fund 002	10964	688	0	0	0	5138	5138	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	11764	2114	1650	2050	1950	2050	1950	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>22728</b>	<b>2802</b>	<b>1650</b>	<b>2050</b>	<b>1950</b>	<b>7188</b>	<b>7088</b>	<b>0</b>	
<b>WATER TRANSMISSION PROJECTS (WAT)</b>									
Exp Fund 002	12025	4091	863	1418	1365	878	1050	2361	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	34492	7552	2913	3581	5385	8588	4900	1574	
Other	506	80	0	115	250	61	0	0	
<b>TOTAL</b>	<b>47023</b>	<b>11723</b>	<b>3775</b>	<b>5113</b>	<b>7000</b>	<b>9527</b>	<b>5950</b>	<b>3935</b>	
<b>SEWAGE PUMPING STATION PROJECTS (SPS)</b>									
Exp Fund 002	25345	1774	1790	7460	8855	3216	2250	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	65809	4701	6773	16348	24505	10833	2650	0	
Other	915	0	218	231	231	235	0	0	
<b>TOTAL</b>	<b>92069</b>	<b>6475</b>	<b>8780</b>	<b>24039</b>	<b>33591</b>	<b>14284</b>	<b>4900</b>	<b>0</b>	
<b>SEWER COLLECTION PROJECTS (SEW)</b>									
Exp Fund 002	4258	791	2867	600	0	0	0	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	13697	1179	3100	4669	1750	1500	1500	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>17955</b>	<b>1969</b>	<b>5967</b>	<b>5269</b>	<b>1750</b>	<b>1500</b>	<b>1500</b>	<b>0</b>	
<b>WATER RECLAMATION FACILITY PROJECTS (WRF)</b>									
Exp Fund 002	3452	636	415	465	555	690	690	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	22355	2686	3469	3510	4020	4335	4335	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>25806</b>	<b>3322</b>	<b>3884</b>	<b>3975</b>	<b>4575</b>	<b>5025</b>	<b>5025</b>	<b>0</b>	
<b>MISCELLANEOUS PROJECTS (MISC)</b>									
Exp Fund 002	16212	964	1610	1485	4944	5539	1670	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	42410	3015	6373	7045	9927	10522	5528	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>58621</b>	<b>3979</b>	<b>7983</b>	<b>8530</b>	<b>14871</b>	<b>16061</b>	<b>7197</b>	<b>0</b>	
<b>INFORMATION TECHNOLOGY (IT)</b>									
Exp Fund 002	747	0	309	231	207	0	0	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	19726	6106	5103	3955	2520	1292	750	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>20473</b>	<b>6106</b>	<b>5412</b>	<b>4186</b>	<b>2727</b>	<b>1292</b>	<b>750</b>	<b>0</b>	
<b>REGIONAL UTILITY PROJECTS (REG)</b>									
Exp Fund 002	0	0	0	0	0	0	0	0	
Fund 003	0	0	0	0	0	0	0	0	
Rep Fund 004	0	0	0	0	0	0	0	0	
Other	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>TOTAL EXPANSION FUND 002</b>	<b>85814</b>	<b>9284</b>	<b>9001</b>	<b>15229</b>	<b>19406</b>	<b>16381</b>	<b>11153</b>	<b>5361</b>	
<b>TOTAL COMMITMENT FUND 003</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>TOTAL REPLACEMENT FUND 004</b>	<b>234686</b>	<b>28147</b>	<b>32332</b>	<b>47547</b>	<b>57750</b>	<b>41203</b>	<b>23133</b>	<b>4574</b>	
<b>TOTAL DEVELOPER/OTHER FUND</b>	<b>1421</b>	<b>80</b>	<b>218</b>	<b>346</b>	<b>481</b>	<b>296</b>	<b>0</b>	<b>0</b>	
<b>GRAND TOTAL NON-DEBT FUNDED PROJECTS</b>	<b>321921</b>	<b>37511</b>	<b>41551</b>	<b>63122</b>	<b>77637</b>	<b>57880</b>	<b>34285</b>	<b>9935</b>	

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022-2026**

**WATER SUPPLY PROJECTS**

CIP Number	PROJECT NAME	ESTIMATED PROJECT COST	FUNDING SOURCES				SPENDING SCHEDULE						
		(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26	BEYOND FY-26
WSUP-103	Water Meter Vault Improvements	525	0	0	525	0	0	125	100	100	100	100	0
WSUP-105	Montclair/Four Seasons Water System Improvements *	14819	0	5187	9632	0	1300	4150	7000	2369	0	0	0
WSUP-111	Bull Run Mountain Well Upgrades	4744	0	0	4744	0	455	390	1155	2744	0	0	0
WSUP-112	Manassas Southside Booster Pumping Station Upgrades	1700	850	0	850	0	550	750	400	0	0	0	0
WSUP-114	Capital Meter Program	8875	1775	0	7100	0	0	1775	1775	1775	1775	1775	0
WSUP-116	Unity Reed (F14) Booster Pumping Station and Discharge Main	14123	7062	0	7062	0	130	835	6030	6000	1128	0	0
WSUP-117	Eastern Area Pressure Reducing Valves	1029	0	0	1029	0	0	225	500	304	0	0	0
WSUP-118	New Service Authority Water Supply Plant - Land Acquisition Requirements	6250	3125	0	3125	0	0	0	0	250	0	0	6000
<b>TOTAL: WATER SUPPLY PROJECTS</b>		<b>52065</b>	<b>12812</b>	<b>5187</b>	<b>34067</b>	<b>0</b>	<b>2435</b>	<b>8250</b>	<b>16960</b>	<b>13542</b>	<b>3003</b>	<b>1875</b>	<b>6000</b>

\* Debt Funded Project

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022-2026**

**WATER STORAGE PROJECTS**

CIP Number	PROJECT NAME	ESTIMATED PROJECT COST	FUNDING SOURCES				SPENDING SCHEDULE						
		(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-22	FY-22	FY23	FY-24	FY-25	FY-26	BEYOND FY-26
WST-104	Potomac Shores Water Storage Tank	10964	10964	0	0	0	688	0	0	0	5138	5138	0
WST-110	Water Storage Tank Rehabilitation Program	8684	0	0	8684	0	1484	1200	1500	1500	1500	1500	0
WST-111	Tank Re-Chlorination Program	3080	0	0	3080	0	630	450	550	450	550	450	0
<b>TOTAL: WATER STORAGE PROJECTS</b>		<b>22728</b>	<b>10964</b>	<b>0</b>	<b>11764</b>	<b>0</b>	<b>2802</b>	<b>1650</b>	<b>2050</b>	<b>1950</b>	<b>7188</b>	<b>7088</b>	<b>0</b>

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022-2026**

**WATER TRANSMISSION PROJECTS**

CIP Number	PROJECT NAME	ESTIMATED PROJECT COST	FUNDING SOURCES				SPENDING SCHEDULE						
		(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26	BEYOND FY-26
WAT-104	Potomac Shores Parkway Transmission Main	2731	683	0	2048	0	162	150	0	0	2419	0	0
WAT-115	Dawkins Branch Transmission Main	9335	5601	0	3734	0	500	1250	1500	400	0	1750	3935
WAT-116	Montclair Pressure Zone Improvements - Route 234	1850	0	0	1850	0	1575	275	0	0	0	0	0
WAT-122	Gainesville to Manassas South Connector	5058	2276	0	2276	506	800	0	1150	2500	608	0	0
WAT-129	Route 1 Water Main Reinforcement, North	6931	3466	0	3466	0	6781	150	0	0	0	0	0
WAT-137	Possum Point Road Water Main Replacement - Phase 1	2205	0	0	2205	0	1905	300	0	0	0	0	0
WAT-138	Possum Point Road Water Main Replacement - Phase 2	4680	0	0	4680	0	0	0	510	2170	2000	0	0
WAT-143	Sudley Road Water Main Improvements - Phase 2	6733	0	0	6733	0	0	150	453	430	3000	2700	0
WAT-181	Route 1 Transmission Main - Phase 1 *	13628	0	6814	6814	0	1311	5500	6250	567	0	0	0
WAT-182	Route 1 Transmission Main - Phase 2 *	13736	0	6868	6868	0	1500	5500	6250	486	0	0	0
WAT-200	Water Distribution Asset Replacement Program	7500	0	0	7500	0	0	1500	1500	1500	1500	1500	0
<b>TOTAL: WATER TRANSMISSION PROJECTS</b>		<b>74387</b>	<b>12025</b>	<b>13682</b>	<b>48174</b>	<b>506</b>	<b>14534</b>	<b>14775</b>	<b>17613</b>	<b>8053</b>	<b>9527</b>	<b>5950</b>	<b>3935</b>

\* Debt Funded Project

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022-2026**

**SEWAGE PUMPING STATION PROJECTS**

CIP Number	PROJECT NAME	ESTIMATED PROJECT COST	FUNDING SOURCES				SPENDING SCHEDULE						
		(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26	BEYOND FY-26
SPS-100	Generator Replacement Program	3483	0	0	3483	0	0	475	936	786	886	400	0
SPS-107	Replace Occoquan Forest Sewage Pumping Stations, OQL36 & OQL37	7458	0	0	7458	0	1400	2000	2058	2000	0	0	0
SPS-108	Replace Nokesville Sewage Pumping Station, L20	2742	0	0	2742	0	450	500	1500	292	0	0	0
SPS-112	Replace Graham Park Sewage Pumping Station, L13	3864	0	0	3864	0	850	750	1500	764	0	0	0
SPS-113	Heritage Hunt Sewage Pumping Station, L52 Replacement and Force Main Extension	38038	19019	0	19019	0	3500	2200	13000	13000	1838	4500	0
SPS-115	Belmont Sewage Pumping Station, L17 Replacement and Force Main Extension	13768	4130	0	9638	0	80	560	1350	6000	5778	0	0
SPS-118	Koon's Sewage Pumping Station, L28 Replacement	3727	0	0	3727	0	60	375	710	2582	0	0	0
SPS-123	Spinnaker Court Sewage Pumping Station, L02 and Force Main Replacement	3392	0	0	3392	0	50	350	750	2242	0	0	0
SPS-125	Occoquan Creek Sewage Pumping Station, L04 Rehabilitation	11937	0	0	11937	0	85	700	1310	5000	4842	0	0
SPS-126	Piney Branch Sewage Pumping Station, L26 Demolition and Gravity Sewer Extension	3660	2196	0	549	915	0	870	925	925	940	0	0
<b>TOTAL: SEWAGE PUMPING STATION PROJECTS</b>		<b>92069</b>	<b>25345</b>	<b>0</b>	<b>65809</b>	<b>915</b>	<b>6475</b>	<b>8780</b>	<b>24039</b>	<b>33591</b>	<b>14284</b>	<b>4900</b>	<b>0</b>

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022-2026**

**SEWER COLLECTION PROJECTS**

CIP Number	PROJECT NAME	ESTIMATED PROJECT COST	FUNDING SOURCES				SPENDING SCHEDULE						
		(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26	BEYOND FY-26
SEW-106	Dumfries Force Main and Water Main Replacement	4404	0	0	4404	0	915	750	2489	250	0	0	0
SEW-157	Sudley Road Sewer Main Replacement and Upgrade	5677	4258	0	1419	0	1054	3823	800	0	0	0	0
SEW-158	I-66 Rest Area Sewer Main Replacement	774	0	0	774	0	0	294	480	0	0	0	0
SEW-200	Sewer Collection Rehabilitation & Replacement Program	7100	0	0	7100	0	0	1100	1500	1500	1500	1500	0
<b>TOTAL: SEWER COLLECTION PROJECTS</b>		<b>17955</b>	<b>4258</b>	<b>0</b>	<b>13697</b>	<b>0</b>	<b>1969</b>	<b>5967</b>	<b>5269</b>	<b>1750</b>	<b>1500</b>	<b>1500</b>	<b>0</b>

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022 - 2026**

**WATER RECLAMATION FACILITY PROJECTS**

CIP Number	PROJECT NAME	ESTIMATED PROJECT COST	FUNDING SOURCES				SPENDING SCHEDULE						
		(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26	BEYOND FY-26
WRF-123	Ongoing Renewal and Replacement	12971	0	0	12971	0	971	1600	2225	2725	2725	2725	0
WRF-126	Dynamic Hydraulic Model and Instrumentation	1551	465	0	1086	0	651	100	100	100	300	300	0
WRF-131	FBI and Solids Building Repairs and Modifications	5652	1696	0	3956	0	468	984	950	1250	1000	1000	0
WRF-134	Bioreactor Basin Improvements	4302	1291	0	3011	0	1002	300	500	500	1000	1000	0
WRF-138	Facility Wide Improvements - Design-Build Project *	121453	0	36436	85017	0	453	7000	24000	35000	33000	22000	0
WRF-142	Replace/Upgrade Freight Elevators	1330	0	0	1330	0	230	900	200	0	0	0	0
<b>TOTAL: WATER RECLAMATION FACILITY PROJECTS</b>		<b>147259</b>	<b>3452</b>	<b>36436</b>	<b>107372</b>	<b>0</b>	<b>3775</b>	<b>10884</b>	<b>27975</b>	<b>39575</b>	<b>38025</b>	<b>27025</b>	<b>0</b>

\* Debt Funded Project

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022 - 2026**

**MISCELLANEOUS PROJECTS**

CIP Number	PROJECT NAME	ESTIMATED PROJECT COST	FUNDING SOURCES				SPENDING SCHEDULE					
		(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26

MISC-100	Water and Sewer Master Plan Utility Adjustments (MPUA)	10000	5000	0	5000	0	0	2000	2000	2000	2000	2000	0
MISC-101	PWCSA Water & Sewer Facility Security Enhancements	2100	0	0	2100	0	0	100	500	500	500	500	0
MISC-102	Wellington Road Operations Center Expansion	1753	877	0	877	0	69	0	0	328	678	678	0
MISC-103	PWCSA Facility Renewals and Upgrades	3148	0	0	3148	0	948	200	500	500	500	500	0
MISC-112	Spittle Office Building Addition	16850	8425	0	8425	0	1189	0	400	7000	8000	261	0
MISC-113	Occoquan Forest WWTP Closure & Site Restoration	1616	0	0	1616	0	1403	213	0	0	0	0	0
MISC-114	System Wide Master Plan	600	600	0	0	0	300	300	0	0	0	0	0
MISC-115	County Wide Emergency Capital Work	5650	0	0	5650	0	0	450	1300	1300	1300	1300	0
MISC-116	English Gardens Property Building Addition & Improvements	400	200	0	200	0	70	0	170	160	0	0	0
MISC-117	Studies and PER's - Organization Wide	2220	1110	0	1110	0	0	620	400	400	400	400	0
MISC-200	Vehicle Replacement Program	5058	0	0	5058	0	0	1100	1170	1130	1158	500	0
MISC-201	Mechanical Equipment Replacement Program	6016	0	0	6016	0	0	2200	1180	1053	1025	558	0
MISC-202	Computer and Other Replacement Program	3210	0	0	3210	0	0	800	910	500	500	500	0

**TOTAL: MISCELLANEOUS PROJECTS      58621      16212      0      42410      0      3979      7983      8530      14871      16061      7197      0**

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022 - 2026**

**INFORMATION TECHNOLOGY PROJECTS**

CIP Number	PROJECT NAME	ESTIMATED PROJECT COST	FUNDING SOURCES				SPENDING SCHEDULE						
		(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26	BEYOND FY-26
IT-105	JD Edwards Upgrade	948	0	0	948	0	573	375	0	0	0	0	0
IT-106	Cayenta - CIS	865	0	0	865	0	50	330	350	135	0	0	0
IT-107	Computerized Maintenance Management System (CMMS) Implementation	11287	0	0	11287	0	4748	1917	1650	1380	1092	500	0
IT-110	Document Management System Implementation	1083	0	0	1083	0	75	525	483	0	0	0	0
IT-117	Vertical Asset Data Development	800	0	0	800	0	350	175	200	75	0	0	0
IT-118	System Integration	1090	0	0	1090	0	310	585	98	97	0	0	0
IT-121	Asset Management Analytics	405	0	0	405	0	0	75	180	150	0	0	0
IT-122	Project Management Information System (PMIS) Implementation	2490	747	0	1743	0	0	1030	770	690	0	0	0
IT-125	IT Cybersecurity Program	1150	0	0	1150	0	0	250	250	200	200	250	0
IT-126	SCADA System Upgrade *	21501	0	0	21501	0	642	4685	3727	4435	3577	4435	0
IT-127	Web Content Management System Migration	355	0	0	355	0	0	150	205	0	0	0	0
<b>TOTAL: INFORMATION AND TECHNOLOGY PROJECTS</b>		<b>41974</b>	<b>747</b>	<b>0</b>	<b>41227</b>	<b>0</b>	<b>6748</b>	<b>10097</b>	<b>7913</b>	<b>7162</b>	<b>4869</b>	<b>5185</b>	<b>0</b>

\* Debt Funded Project

**PRINCE WILLIAM COUNTY SERVICE AUTHORITY  
CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2022-2026**

**REGIONAL UTILITY PROJECTS**

CIP Number	PROJECT NAME	ESTIMATED PROJECT COST	FUNDING SOURCES				SPENDING SCHEDULE					
		(\$1,000's)	E 002	003	R 004	OTHER	PRE FY-22	FY-22	FY-23	FY-24	FY-25	FY-26

REG-1	Occoquan River Crossing *	16119	0	4836	11283	0	0	7000	7500	1619	0	0	0
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**TOTAL: REGIONAL UTILITY PROJECTS**      **16119**      **0**      **4836**      **11283**      **0**      **0**      **7000**      **7500**      **1619**      **0**      **0**      **0**

\* Debt Funded Project

**CAPITAL IMPROVEMENT PROGRAM  
FISCAL YEARS 2022 - 2026**



**Service Authority**  
Prince William County

**SECTION B**

**PROJECT DATA SHEETS**



# Service Authority

Prince William County



**Water Supply Projects**

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Water Meter Vault Improvements  
**CIP Number:** WSUP-103  
**JDE Number(s):** 24WCWV0001, 24WWLZ0001  
**Location:** Commercial Meter Vault Locations  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Finance - Field Services

**PROJECT DESCRIPTION**

**Project Description:** Repair and replacement of commercial meter vaults county wide as needed.  
**Project Benefit:** Aging meter vaults pose a safety issue for Field Services personnel servicing the respective meters. Maintenance of these facilities will provide a safe environment for the repair, replacement, and necessary customer service.  
**Source Derivation:** Operations and Maintenance Division; Finance – Field Services; Managed by Finance – Field Services

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	125	100	100	100	100	0	525

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Montclair / Four Seasons Water System Improvements  
**CIP Number:** WSUP-105  
**JDE Number(s):** 22WMOF2201, 24WMOF2201  
**Location:** 17361 Four Seasons Dr., Dumfries  
**Pressure Zone:** MO – Montclair  
**Sewershed:** DM – Dumfries  
**Magisterial District:** PO – Potomac  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

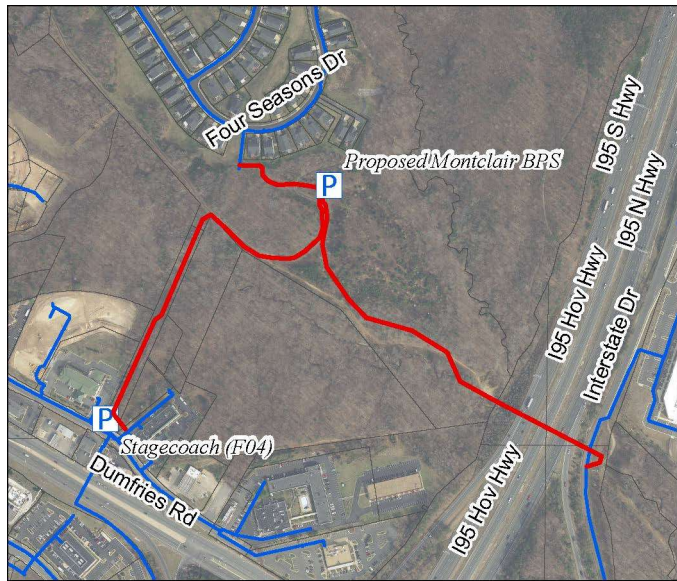
**PROJECT DESCRIPTION**

**Project Description:** Design and construction of a new booster pumping station with associated power and control accessories, including an emergency generator. This project also includes a new supply line which shall cross Dewey’s Creek and I-95, and a new 16-inch discharge main from the new booster pumping station to Old Stage Road.

**Project Benefit:** This project will provide auxiliary pumping capacity to the Cow Branch Booster Pumping Station, improve system reliability, as well as accommodate the anticipated build-out demands in the Montclair and Oak Ridge pressure zones. This project will also enable the Old Stage Booster Pumping Station, which is outdated with limited capacity, to be removed from service.

**Source Derivation:** WRA East End Water System Technical Memorandum, 2001; Hazen and Sawyer PER, 2016; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1300	4150	7000	2369	0	0	0	14819

Proposed Funding Sources	
Exp. Fund (02) – Availability Rates	-
Commit. Fund (03) – Availability Rates	35%
Repl. Fund (04) – User Rates	65%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Bull Run Mountain Well Upgrades  
**CIP Number:** WSUP-111  
**JDE Number(s):** 24WBHW0101  
**Location:** Bull Run Mountain / Evergreen Well Systems  
**Pressure Zone:** BH – Bull Run Mountain High, BW – Bull Run Mountain Low  
**Sewershed:** N/A  
**Magisterial District:** GN – Gainesville  
**Project Estimate:** PER  
**Estimate By:** Engineering and Planning Division, Operations and Maintenance Division

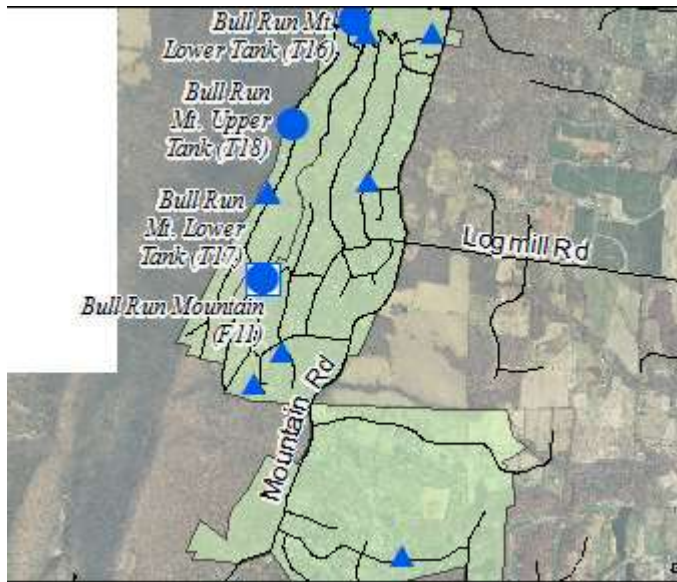
**PROJECT DESCRIPTION**

**Project Description:** The evaluation, design, and construction of improvements in the Bull Run Mountain Well Systems to meet future demands. The project scope consists of: structural modifications for updated chemical feed equipment and the installation of disinfection facilities at various well sites; design of a replacement PRV vault to control flows and pressures between service zones; the investigation, design, and construction of new well sites, piping, and a booster pump to increase capacity in the system.

**Project Benefit:** These modifications and improvements will increase reliability and enhance system operations and ensure there is adequate capacity to meet future demands.

**Source Derivation:** Operations and Maintenance Division; Engineering and Planning Division; Bull Run Service Area Well Improvements PER – Dewberry (June 2020); Managed by Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
455	390	1155	2744	0	0	0	4744

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Manassas Southside Booster Pumping Station Upgrades  
**CIP Number:** WSUP-112  
**JDE Number(s):** 22WMSF1851, 24WMSF1851  
**Location:** Blooms Quarry Ln., Manassas  
**Pressure Zone:** MS – Manassas Southside  
**Sewershed:** YS – Yorkshire  
**Magisterial District:** CO – Coles  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

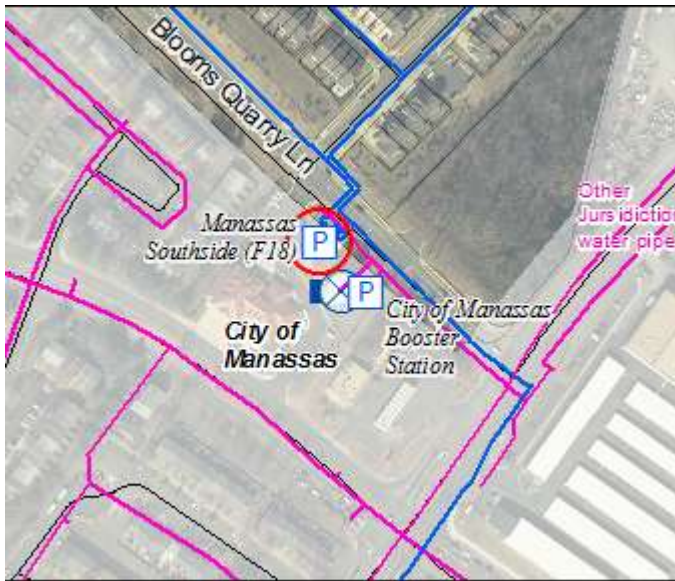
**PROJECT DESCRIPTION**

**Project Description:** Design and construction of upgrades to the Manassas Southside Booster Pumping Station to increase pumping capacity from 2 MGD to 4 MGD, which includes the replacement of the two existing pumps and the installation of a new third pump, pump control valves, and variable frequency drives. A standby generator shall be selected, the HVAC system shall be modified for easier maintenance, and the SCADA and electrical systems shall be updated to current standards.

**Project Benefit:** The increased pumping capacity at the booster pumping station shall improve pumping efficiencies and provide better service and reliability to existing and future customers within the Manassas Southside pressure zone.

**Source Derivation:** Engineering and Planning Division; Operations and Maintenance Division; Manassas Southside Booster Pumping Station PER – Hazen and Sawyer (January 2018, Revision July 27, 2018); Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
550	750	400	0	0	0	0	1700

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	50%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Capital Meter Program  
**CIP Number:** WSUP-114  
**JDE Number(s):** 22WCWZ0001, 24WCWZ0001  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Finance – Field Services

**PROJECT DESCRIPTION**

**Project Description:** The SA installs meters for two primary reasons: new installation as a result of growth and to replace or rebuild existing meters. Owners/developers pay a fee to cover new meter installation costs, which are recorded to the Expansion Fund. The SA has over 90,000 meters to maintain, approximately 93% of which are residential that have a 15 year or 1.5 million gallon lifespan. Larger meter lifespan is more variable and can be repaired or rebuilt as needed. Estimates for meter replacement account for age and consumption of active meters, and are made for the following year. On average, 5,500 meters require repair or replacement annually.

**Project Benefit:** The goal of this project is to account for all new meter expenditures related to growth, approximately \$400,000 annually. Proper maintenance and timely replacement of meters reduces water loss and maximizes revenue by accurately capturing consumption. Based on recent trends, the annual cost of replacing failing meters is approximately \$1.375 million (equivalent of 5,500 meters are \$250 per meter).

**Source Derivation:** Finance – Customer Service Department; Managed by Finance – Field Services

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	1775	1775	1775	1775	1775	0	8875

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	20%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	80%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Unity Reed (F14) Booster Pumping Station and Discharge Main  
**CIP Number:** WSUP-116  
**JDE Number(s):** 22WGWM0901, 24WGWM0901  
**Location:** 8814 Rixlew Ln., Manassas  
**Pressure Zone:** GW - Gainesville  
**Sewershed:** FB – Flat Branch  
**Magisterial District:** BR - Brentsville  
**Project Estimate:** PER  
**Estimate By:** Engineering and Planning Division

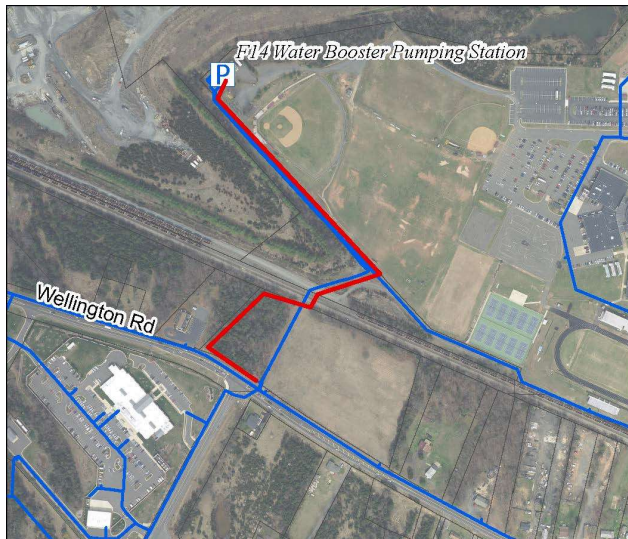
**PROJECT DESCRIPTION**

**Project Description:** This project includes the design and construction of new and upgraded pumps and associated appurtenances, site work, electrical upgrades, new generator, new SCADA systems, and a control building to expand the capacity of the booster pumping station. The project also includes the design and construction of approximately 2,100 feet of 36-inch transmission main from the booster pumping station to Wellington Road and associated easement acquisition.

**Project Benefit:** The increased pumping capacity at the booster pumping station shall improve pumping efficiencies and provide better service and reliability to existing and future customers in the Gainesville pressure zone. The project shall also provide an additional supply from the discharge at the booster pumping station to improve reliability in the Gainesville pressure zone should there be a break in the single existing 42-inch discharge main at the railroad crossing.

**Source Derivation:** Engineering and Planning Division; Gainesville Discharge Main PER - Michael Baker, July 2019; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
130	835	6030	6000	1128	0	0	14123

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	50%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Eastern Area Pressure Reducing Valves  
**CIP Number:** WSUP-117  
**JDE Number(s):** Not Assigned  
**Location:** Multiple Meter Stations, Garfield BPS  
**Pressure Zone:** WL – Woodbridge  
**Sewershed:** BM – Belmont  
**Magisterial District:** WB – Woodbridge  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

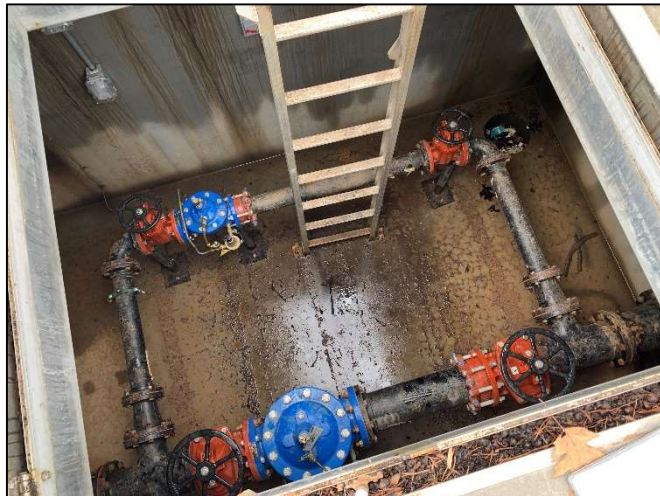
**PROJECT DESCRIPTION**

**Project Description:** Design and construction of three pressure control valve vaults and associated piping in the Woodbridge and Dumfries pressure zones. These control valves are required to regulate pressures during various pumping operations at Fairfax Water, and enable the bypass of the Garfield Booster Pumping Station during normal operations.

**Project Benefit:** Pressure control in the Woodbridge and Dumfries pressure zones is required when Fairfax Water increases the delivery pressure in the existing 36-inch transmission main as part of the Occoquan River Crossing project (REG-1). These control valves will avoid over-pressurization in both pressure zones and allow the bypass of the Garfield Booster Pumping Station during normal operations to reduce pumping costs.

**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	225	500	304	0	0	0	1029

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** New Service Authority Water Supply Plant – Land Acquisition Requirements  
**CIP Number:** WSUP-118  
**JDE Number(s):** Not Assigned  
**Location:** TBD  
**Pressure Zone:** TBD  
**Sewershed:** TBD  
**Magisterial District:** TBD  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Feasibility study and identification of property acquisition requirements for a new SA water supply plant and associated infrastructure. These costs represent conceptual estimates for the study and property acquisition and do not include construction costs for the water treatment plant and associated infrastructure.  
**Project Benefit:** To provide reliability and redundancy in the water supply for SA customers.  
**Source Derivation:** Engineering and Planning Division; Brown & Caldwell Draft Alternative Analysis Report for Water Supply, January 2021; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	0	0	250	0	0	6000	6250

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	50%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>



# Service Authority

Prince William County



## Water Storage Projects

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Potomac Shores Water Storage Tank  
**CIP Number:** WST-104  
**JDE Number(s):** 22WDTT3501, 24WDTT3501  
**Location:** 2300 River Heritage Blvd.  
**Pressure Zone:** DT – Dumfries  
**Sewershed:** DM – Dumfries  
**Magisterial District:** PO – Potomac  
**Project Estimate:** OPCC  
**Estimate By:** Engineering and Planning Division

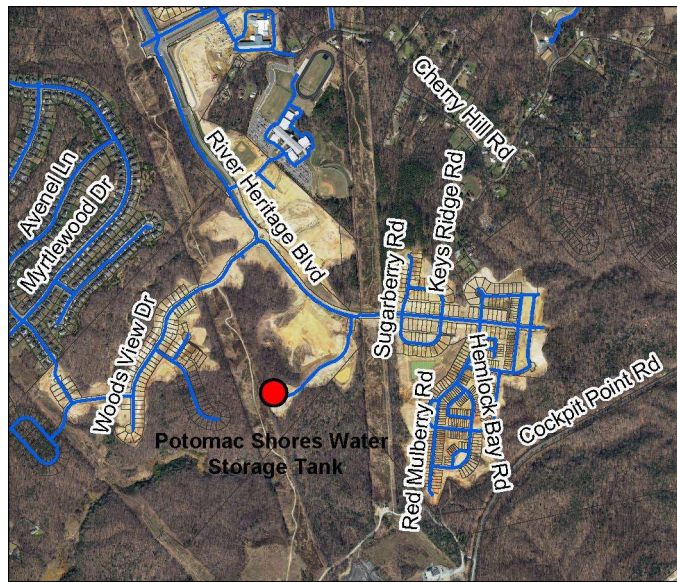
**PROJECT DESCRIPTION**

**Project Description:** Design and construction of a 2 MG elevated steel water storage tank in the Potomac Shores community of the Dumfries pressure zone. An easement for the tank site, access road, and water main was proffered with the new middle school in Potomac Shores. The final PER evaluated several options and concluded this site to be the optimal location.

**Project Benefit:** This tank will help maintain system pressures, improve reliability and increase fire flows to the area by providing additional equalization, emergency and fire protection storage.

**Source Derivation:** Engineering and Planning Division, Cherry Hill Elevated Water Storage Tank PER, Hazen and Sawyer, October 2016; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
688	0	0	0	5138	5138	0	10964

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	100%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	-
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Water Storage Tank Rehabilitation Program  
**CIP Number:** WST-110  
**JDE Number(s):** Not Assigned  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Operations and Management Division

**PROJECT DESCRIPTION**

**Project Description:** Repair and rehabilitation of water storage tanks from defects including peeling paint, rust, pitting, and delaminating of the surface coat from the primer coat. In addition, the project will install mixing systems as required while tanks undergo refurbishment. Other components that are upgraded as needed include lighting, fencing, control valves, and SCADA systems. The storage tanks scheduled for rehabilitation during this 5-year CIP period include Interstate (T-22), Dominion Valley (T-30), Nottoway (T-28), Locust Shade (T-29) and Forest Park (T-25). The timing and execution are subject to change based on operational needs and priorities.

**Project Benefit:** Preserve and extend the economic life of each water tank. In addition, the project will prevent stagnation of water within the tank with the installation of mixing systems.

**Source Derivation:** Operations and Maintenance Division; Managed by Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1484	1200	1500	1500	1500	1500	0	8684

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

## PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET

### PROJECT INFORMATION

**Project Name:** Tank Re-Chlorination Program  
**CIP Number:** WST-111  
**JDE Number(s):** Not Assigned  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Operations and Management Division

### PROJECT DESCRIPTION

**Project Description:** Residual Control System (RCS) is a management system that provides an intelligent, automated disinfectant boosting system that provides the ability to set, control, and maintain cost-effective chlorine residual levels in our water storage tanks. In addition, the project will install the management system, controls, and ancillary equipment. Other Components that are upgraded as needed are electrical equipment, tank mixing system, and thermal probes to monitor mixing. The storage tanks scheduled for an RCS during this 5-year CIP period include Dominion Valley (T-30), Manassas South (T-24) and Haymarket (T-20). The timing and execution are subject to change based on operational needs and priorities.

**Project Benefit:** This project provides an important safeguard against the risk of subsequent contamination after treatment, a unique and significant benefit for public health.

**Source Derivation:** Operations and Maintenance Division; Managed by Operations and Maintenance Division

### PROJECT PICTURE



### PROJECT FUNDING

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
630	450	550	450	550	450	0	3080

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>



**Service Authority**  
Prince William County



**Water Transmission Projects**

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Potomac Shores Parkway Transmission Main  
**CIP Number:** WAT-104  
**JDE Number(s):** 22WDTM8602, 24WDTM8602  
**Location:** Future Potomac Shores Pkwy.  
**Pressure Zone:** DT – Dumfries  
**Sewershed:** DM – Dumfries  
**Magisterial District:** PO – Potomac  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

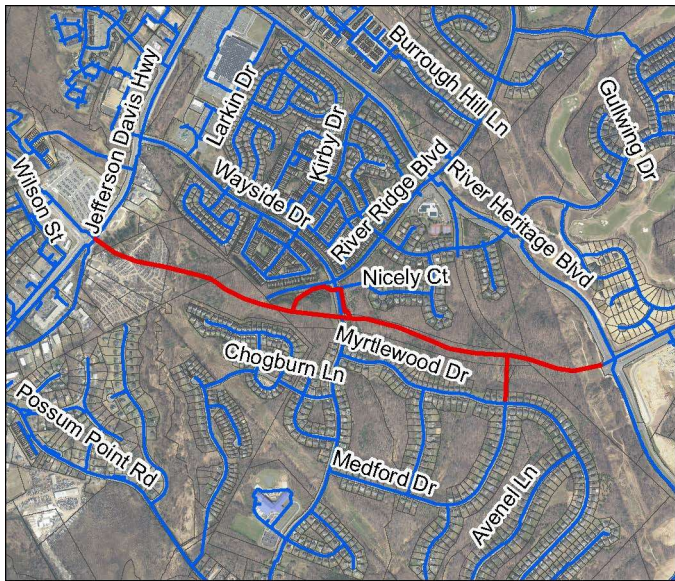
**PROJECT DESCRIPTION**

**Project Description:** Design and construction of approximately 7,450 feet of 16-inch and 1,140 feet of 12-inch water main along the future Potomac Shores Parkway from Route 1 to River Heritage Boulevard.

**Project Benefit:** This project shall increase the transmission capacity and reinforce the existing network grid within the Dumfries pressure zone as well as serve new development in Potomac Shores. Coordinating the construction of water main with the proposed road projects shall save in pavement restoration costs and minimize traffic disruptions.

**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
162	150	0	0	2419	0	0	2731

Proposed Funding Sources	
Exp. Fund (02) – Availability Funds	25%
Commit. Fund (03) – Availability Funds	-
Repl. Fund (04) – User Rates	75%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Dawkins Branch Transmission Main  
**CIP Number:** WAT-115  
**JDE Number(s):** 22WBRM0101, 24WBRM0101, 22WGWM1301, 24WGWM1301  
**Location:** University Blvd. between Sudley Manor Dr. and Devlin Rd.  
**Pressure Zone:** GW – Gainesville  
**Sewershed:** BR – Broad Run  
**Magisterial District:** PO – Potomac  
**Project Estimate:** OPCC  
**Estimate By:** Engineering and Planning Division

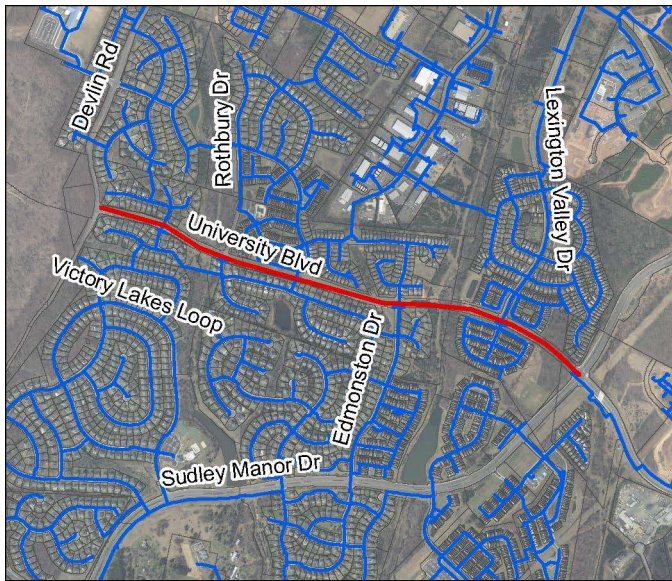
**PROJECT DESCRIPTION**

**Project Description:** Design and construction of approximately 6,650 feet of 30-inch water main along University Boulevard from Sudley Manor Drive to the west side of Devlin Road. 4,300 feet of the water main is to be designed and constructed by the Service Authority from Edmonston Drive to Devlin Road, and 2,350 feet is to be designed and constructed with the PWC University Boulevard roadway expansion between Sudley Manor Drive and Edmonston Drive.

**Project Benefit:** This project will extend a major transmission main through the center of the Gainesville pressure zone to convey additional pump discharge from the F14 Booster Pumping Station. This project shall increase the transmission capacity throughout the pressure zone and strengthen the supply to the Haymarket pressure zone.

**Source Derivation:** Gannett Fleming Western Zone Water Transmission Main Study, 1992; Managed by Engineering and Planning Division and Prince William County

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
500	1250	1500	400	0	1750	3935	9335

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	60%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	40%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Montclair Pressure Zone Improvements – Route 234  
**CIP Number:** WAT-116  
**JDE Number(s):** 24WMOM0203  
**Location:** Near First Mount Zion Baptist Church and Four Seasons Dr. along Rt. 234  
**Pressure Zone:** MO – Montclair  
**Sewershed:** DE – Deweys Branch  
**Magisterial District:** PO – Potomac  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

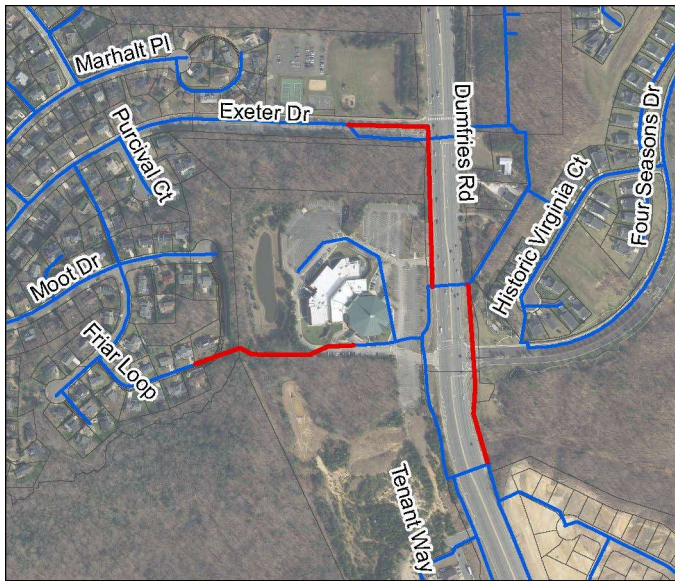
**PROJECT DESCRIPTION**

**Project Description:** The design and construction of approximately 760 feet of 8-inch water main and approximately 1,450 feet of 12-inch water main along the Dumfries Road corridor to reinforce the distribution system in the area of Mount Zion Church and Fortuna Shopping Center. Work on each segment of the project also includes interconnections with existing water mains and restoration of pavement, sidewalk, curb, and turf areas.

**Project Benefit:** Increase transmission capacity to provide better service to existing customers as well as redundancy along the Dumfries Road corridor. This shall benefit the Mount Zion Church, the Fortuna Shopping Center, and Brittany Subdivision, as well as eliminate dead-end mains for improved circulation and water quality.

**Source Derivation:** Engineering and Planning Division; Operations and Maintenance Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1575	275	0	0	0	0	0	1850

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contribution	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Gainesville to Manassas South Connector  
**CIP Number:** WAT-122  
**JDE Number(s):** 22WMSM0101, 24WMSM0101  
**Location:** Harry J Parish Blvd. to Pennsylvania Ave.  
**Pressure Zone:** MS – Manassas Southside, GW – Gainesville  
**Sewershed:** GD – Godwin Drive  
**Magisterial District:** BR – Brentsville, CO – Coles  
**Project Estimate:** OPCC  
**Estimate By:** Engineering and Planning Division, CH2M

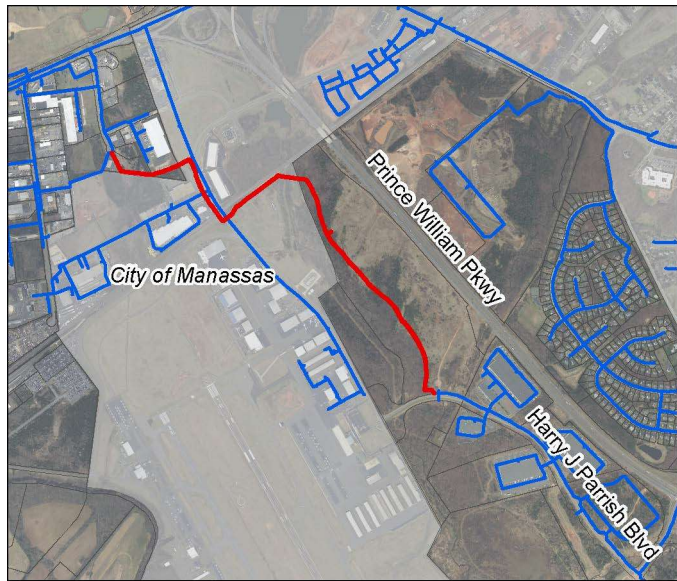
**PROJECT DESCRIPTION**

**Project Description:** Construction of approximately 6,500 feet of 16-inch water main to interconnect the Manassas Southside and Gainesville pressure zones. This project also includes the construction of a pressure control valve vault to regulate the flows and pressures between zones.

**Project Benefit:** Provides the capability to convey water between pressure zones at the same hydraulic gradient for increased reliability and redundancy. Additionally, this project shall provide a secondary route for the transmission of water from Fairfax Water to all areas surrounding the City of Manassas served by the SA.

**Source Derivation:** Engineering and Planning Division; WRA Water Supply and Distribution System Optimization Study, 2002; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
800	0	1150	2500	608	0	0	5058

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	45%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	45%
Other Contrib. – Development Contributions	10%
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Route 1 Water Main Reinforcement, North  
**CIP Number:** WAT- 129  
**JDE Number(s):** 22WWLM8101, 24WWLM8101  
**Location:** Rt. 1, from Featherstone Rd. to Annapolis Way  
**Pressure Zone:** WL – Woodbridge  
**Sewershed:** BM – Belmont  
**Magisterial District:** WB – Woodbridge  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

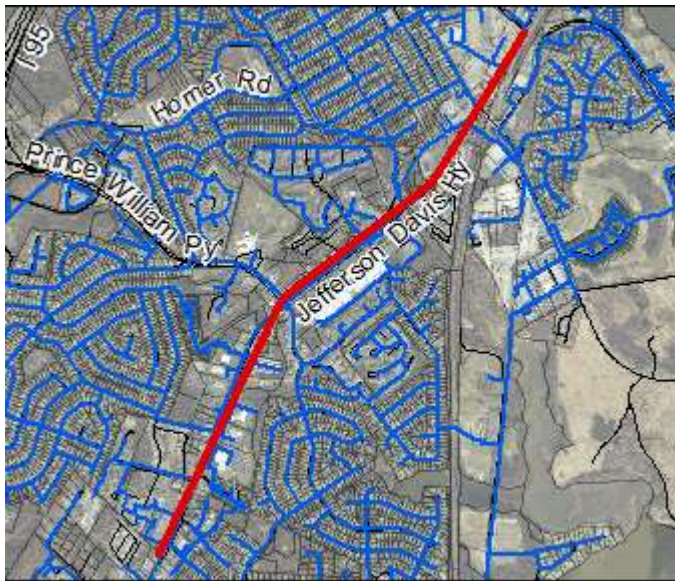
**PROJECT DESCRIPTION**

**Project Description:** Construction of approximately 15,000 feet of 16-inch, 12-inch and 8-inch water main along the Route 1 corridor from Featherstone Road north to Annapolis Way. This phase is from Mary’s Way to Annapolis Way with the remainder to be constructed in a future phase. The project shall connect to the 16-inch main constructed with a prior CIP Project. This project shall be constructed in conjunction with VDOT Route 1 improvements.

**Project Benefit:** Reinforce the Woodbridge pressure zone with a new, stronger transmission main backbone, which is currently served by an old 10-inch cast iron water main. The project shall improve service and fire flows, and provides capacity consistent with the PWC Comprehensive Plan goals for Route 1 redevelopment.

**Source Derivation:** WRA East End Water System Technical Memorandum, 2001; Managed by Engineering and Planning Division - Development Department

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
6781	150	0	0	0	0	0	6931

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	50%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

## PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET

### PROJECT INFORMATION

**Project Name:** Possum Point Road Water Main Replacement – Phase 1

**CIP Number:** WAT-137

**JDE Number(s):** 24WDTM8501

**Location:** Summer Duck Dr. to Town Limits

**Pressure Zone:** DT – Dumfries

**Sewershed:** DM – Dumfries

**Magisterial District:** PO – Potomac

**Project Estimate:** Contract Award

**Estimate By:** Engineering and Planning Division

### PROJECT DESCRIPTION

**Project Description:** The design and construction of approximately 4,950 feet of 12-inch water main to replace the existing, aged 12-inch water main which has experienced numerous breaks.

**Project Benefit:** Replacement of the existing water main that has corroded over time due to acidic soils shall improve system reliability and lower maintenance costs.

**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning

### PROJECT PICTURE



### PROJECT FUNDING

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1905	300	0	0	0	0	0	2205

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Possum Point Road Water Main Replacement – Phase 2  
**CIP Number:** WAT-138  
**JDE Number(s):** Not Assigned  
**Location:** Howard St. to Summer Duck Dr., Town Limits to Possum Point Rd. terminus  
**Pressure Zone:** DT – Dumfries  
**Sewershed:** DM – Dumfries  
**Magisterial District:** PO – Potomac  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Replacement of approximately 11,800 feet of existing, aged 12-inch water main with new 12-inch water main along Possum Point Road from Howard Street to Summer Duck Drive, and then from the Town of Dumfries limits to the terminus of Possum Point Road.  
**Project Benefit:** Replacement of the existing water main that has corroded over time due to acidic soils shall improve system reliability and lower maintenance costs.  
**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	0	510	2170	2000	0	0	4680

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Sudley Road Water Main Improvements – Phase 2  
**CIP Number:** WAT-143  
**JDE Number(s):** Not Assigned  
**Location:** Balls Ford Rd. to Sudley Manor Dr.  
**Pressure Zone:** GM – Greater Manassas  
**Sewershed:** BU – Bull Run, FB – Flat Branch  
**Magisterial District:** GN – Gainesville, BR – Brentsville, CO - Coles  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Design and construction of approximately 15,390 feet of 12-inch water main to close several loops between the existing 10-inch and 12-inch water mains on both sides of Sudley Road from Balls Ford Road to Williamson Boulevard and Sudley Manor Drive. The project includes several interconnections with existing mains in the vicinity.

**Project Benefit:** This project shall improve transmission, distribution, fire flows, and service to a densely developed corridor of the County. This project shall also enable the abandonment of the over 40-year-old cast iron water main in the median and turn lanes of Sudley Road.

**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	150	453	430	3000	2700	0	6733

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Route 1 Transmission Main – Phase 1  
**CIP Number:** WAT-181  
**JDE Number(s):** 22WDMM0001, 24WDMM0001  
**Location:** Rt. 1 from Garfield BPS to Rt. 234  
**Pressure Zone:** DM – Dumfries  
**Sewershed:** Multiple  
**Magisterial District:** PO – Potomac and WB – Woodbridge  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

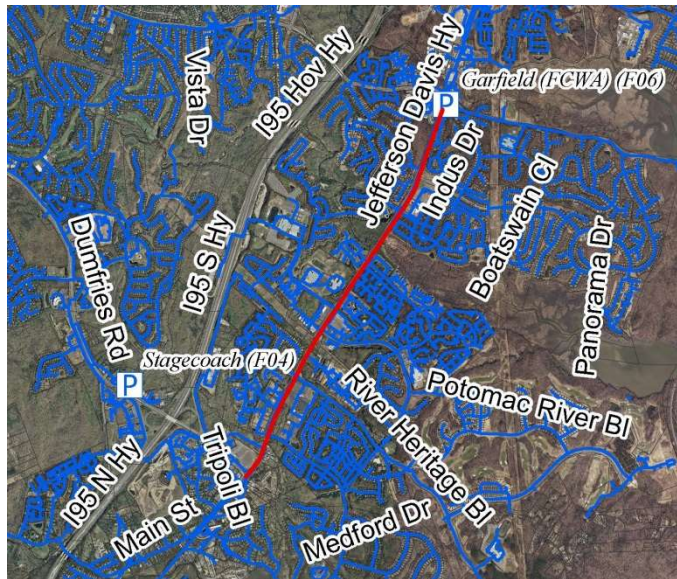
**PROJECT DESCRIPTION**

**Project Description:** Design and construction of approximately 13,500 feet of 30-inch water main along Route 1 from the Garfield Booster Pumping Station to Route 234.

**Project Benefit:** This project shall increase transmission capacity and reliability within the Dumfries pressure zone, increase pumping efficiency at the Garfield Booster Pumping Station, and enhance the transfer of water into the Montclair pressure zone and Potomac Shores area. This project shall also enable several existing, older concrete and cast iron mains that have experienced numerous breaks to be removed from service.

**Source Derivation:** Engineering and Planning Division; WRA East End Water System Technical Memo, 2001; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1311	5500	6250	567	0	0	0	13628

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	50%
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Route 1 Transmission Main – Phase 2  
**CIP Number:** WAT-182  
**JDE Number(s):** 22WDMM0002, 24WDMM0002  
**Location:** Rt. 1 from Rt. 234 to Fuller Heights Rd.  
**Pressure Zone:** DM – Dumfries  
**Sewershed:** DM – Dumfries and LC – Little Creek  
**Magisterial District:** PO – Potomac  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

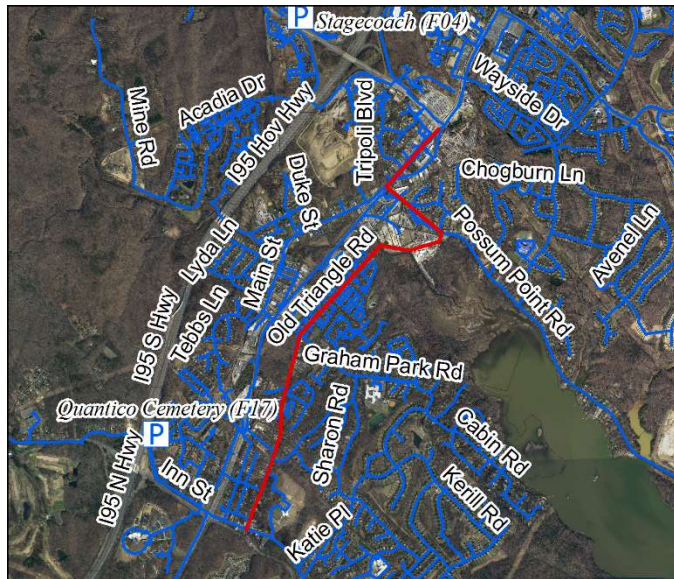
**PROJECT DESCRIPTION**

**Project Description:** Design and construction of approximately 8,750 feet of 24-inch water main along Route 1 from Route 234 to Graham Park Road, and 5,500 feet of 16-inch water main along Old Triangle Road from Graham Park Road to Fuller Heights Road.

**Project Benefit:** This project shall increase transmission capacity, reliability, and redundancy within the Dumfries pressure zone south of Route 234 and enable several existing older cast iron water mains that have experienced numerous breaks to be removed from service.

**Source Derivation:** Engineering and Planning Division; WRA East End Water System Technical Memo, 2001; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1500	5500	6250	486	0	0	0	13736

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	50%
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Water Distribution Asset Replacement Program  
**CIP Number:** WAT-200  
**JDE Number(s):** Not Assigned  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Replacement of water distribution assets including water main, hydrants, service lines, meter crocks, and isolation valves. The assets scheduled for replacement during this 5-year CIP period include: water mains in Paxton Street, King George street, and Willow Lane, and the replacement of hydrants and valves throughout the system. The timing and execution of these projects are subject to change based on operational needs and priorities.

**Project Benefit:** The replacement of water distribution assets will improve reliability, increase fire protection, reduce maintenance costs, and improve overall customer service.

**Source Derivation:** Operations and Maintenance Division; Managed by Engineering and Planning Division and Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	1500	1500	1500	1500	1500	0	7500

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>



# Service Authority

Prince William County



## Sewage Pumping Station Projects

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Generator Replacement Program  
**CIP Number:** SPS-100  
**JDE Number(s):** Not Assigned  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Operations and Maintenance Division

**PROJECT DESCRIPTION**

**Project Description:** This program upgrades or replaces aging diesel generators, transfer switches, and appurtenances at SA facilities.  
**Project Benefit:** This program improves and maintains a reliable, resilient, and operational system by replacing aging generators and appurtenances. It eliminates the difficulty in obtaining replacement parts for old and outdated generators.  
**Source Derivation:** Operations and Maintenance Division, Managed by Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	475	936	786	886	400	0	3483

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Replace Occoquan Forest Sewage Pumping Stations, OQL36 & OQL37  
**CIP Number:** SPS-107  
**JDE Number(s):** 24SOQL7501 (L36), 24SOQL3701 (L37)  
**Location:** 10820 Split Rail Dr. and 6204 Ramblewood Tr., Manassas  
**Pressure Zone:** HO – Hoadly  
**Sewershed:** OQ – Occoquan Forest  
**Magisterial District:** OC – Occoquan  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

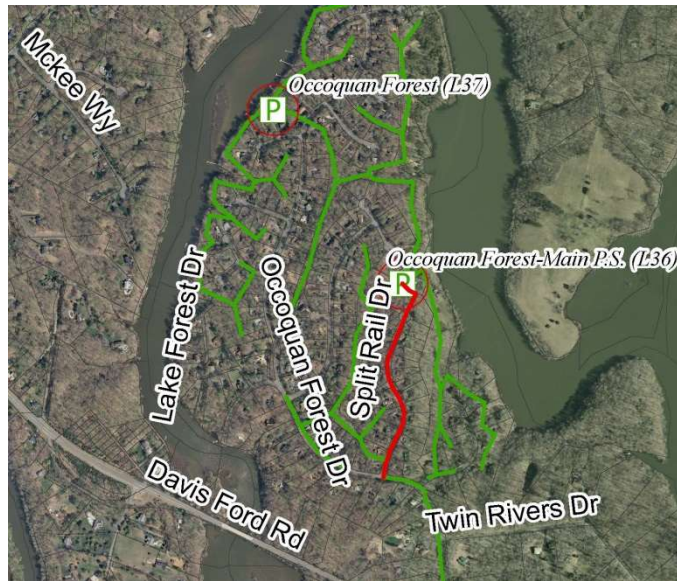
**PROJECT DESCRIPTION**

**Project Description:** The design and construction of the replacement of the antiquated Occoquan Forest Sewage Pumping Station OQL36, associated force main, and the rehabilitation of Sewage Pumping Station OQL37. This project also includes the installation of emergency generators and by-pass connections on the force mains.

**Project Benefit:** This project will provide improved reliable service to the Occoquan Forest sewershed in compliance with the PWC Comprehensive Plan and VDEQ regulations. In addition, it shall reduce maintenance costs, provide new emergency backup power supplies, and improve safety conditions at both sewage pumping stations.

**Source Derivation:** Engineering and Planning Division; Operations and Maintenance Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1400	2000	2058	2000	0	0	0	7458

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Replace Nokesville Sewage Pumping Station, L20  
**CIP Number:** SPS-108  
**JDE Number(s):** 24SNKL7701  
**Location:** 12829 Fitzwater Dr., Nokesville  
**Pressure Zone:** N/A  
**Sewershed:** NK – Nokesville  
**Magisterial District:** BR - Brentsville  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** The design and construction of the replacement of the antiquated Nokesville Sewage Pumping Station and associated force main. The new sewage pumping station shall be equipped with an emergency generator, a by-pass connection on the new force main, and new flow monitoring equipment.

**Project Benefit:** This project shall provide improved, reliable service to the Nokesville sewershed in compliance with the PWC Comprehensive Plan and VDEQ regulations. The project shall reduce maintenance expenses, improve reliability, provide emergency backup power supply, and improve safety conditions at the sewage pumping station.

**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
450	500	1500	292	0	0	0	2742

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Replace Graham Park Sewage Pumping Station, L13  
**CIP Number:** SPS-112  
**JDE Number(s):** 24SMRL7601  
**Location:** 3196 Shoreview Rd., Dumfries  
**Pressure Zone:** DT – Dumfries  
**Sewershed:** MR – Melrose  
**Magisterial District:** PO – Potomac  
**Project Estimate:** PER  
**Estimate By:** Engineering and Planning Division

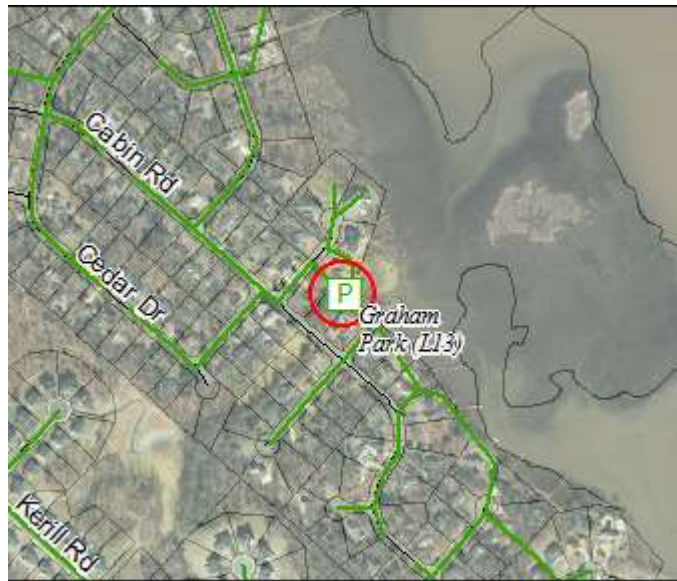
**PROJECT DESCRIPTION**

**Project Description:** Replacement of the existing antiquated Graham Park Sewage Pumping Station. The project shall include the installation of new submersible pumps with new controls, motors, emergency generator, by-pass connection on force main, new flow metering, and SCADA equipment. The site layout shall also be improved to protect the facilities from storm surge flooding and new fencing around the premises shall be installed. Also included is the complete replacement of approximately 550 feet of existing 4-inch force main.

**Project Benefit:** Improve service to existing customers in the Melrose sewershed in compliance with the PWC Comprehensive Plan. This project shall reduce maintenance costs, provide emergency backup power supply, and improve safety conditions at the sewage pumping station.

**Source Derivation:** Operations and Maintenance Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
850	750	1500	764	0	0	0	3864

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Heritage Hunt Sewage Pumping Station, L52 Replacement and Force Main Extension  
**CIP Number:** SPS-113  
**JDE Number(s):** 22SLBL5202, 24SLBL5202, 22SLBM9001, 24SLBM9001  
**Location:** 6588 Alderwood Way, Gainesville  
**Pressure Zone:** HM – Haymarket  
**Sewershed:** LB – Little Bull Run  
**Magisterial District:** GN – Gainesville  
**Project Estimate:** PER  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Replacement of the Heritage Hunt Sewage Pumping Station to increase pumping capacity from 5 MGD to approximately 8 MGD. The project will include the installation of a manual screen, dual channel grinders, dry-pit submersible pumps and associated piping and valves, bioxide odor control system, sump pumps, new flowmeters, and a monorail crane system. This project also includes the design and construction of approximately 5,950 feet of 24-inch force main from the station to the existing 24-inch force main south of I-66, parallel to the existing 10-inch and 16-inch force mains already in service.

**Project Benefit:** Continued access to public sewer service to residential and commercial developments occurring in the Little Bull Run and Catharpin Creek sewersheds in conformance with the PWC Comprehensive Plan. Ultimate development of the service area will exceed the capacity of the current station. Discharge capacity of the station will be increased to meet current and future development needs.

**Source Derivation:** Engineering and Planning Division; Patton Harris Rust & Assoc.: Study of Alternative Routings of Wastewater from the Immediate Area of Haymarket, 1994; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
3500	2200	13000	13000	1838	4500	0	38038

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	50%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Belmont Sewage Pumping Station, L17 Replacement and Force Main Extension  
**CIP Number:** SPS-115  
**JDE Number(s):** 22SBML0201, 24SBML0201  
**Location:** 13760 Dabney Rd., Woodbridge  
**Pressure Zone:** WL – Woodbridge  
**Sewershed:** BM – Belmont  
**Magisterial District:** WB – Woodbridge  
**Project Estimate:** PER  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Replacement of the Belmont Sewage Pumping Station to increase pumping capacity from 8 MGD to 12 MGD. This project will include a new influent channel, channel grinder, wet well, flow meters, odor control, SCADA, mechanical and electrical equipment, and a standby generator. This project also includes a parallel force main analysis to investigate the constraints, alignment and easement acquisition requirements of constructing a new 24-inch force main to improve overall pumping operations in the collection system.

**Project Benefit:** This project will provide adequate pumping capacity to serve future development within the sewer shed in conformance with the PWC Comprehensive Plan. This project will also relieve capacity in the existing 30-inch force main coming from the Occoquan Creek Sewage Pumping Station by conveying the Belmont Sewage Pumping Station flows directly into the Colchester interceptor.

**Source Derivation:** GHD Belmont Sewage Pumping Station Preliminary Engineering Report, 2020; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
80	560	1350	6000	5778	0	0	13768

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	30%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	70%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

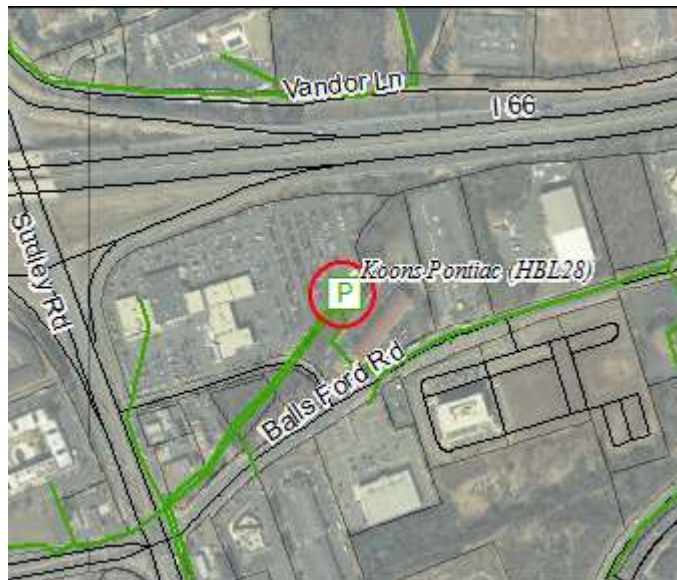
**PROJECT INFORMATION**

**Project Name:** Koon's Sewage Pumping Station, L28 Replacement  
**CIP Number:** SPS-118  
**JDE Number(s):** 24SBUL0101  
**Location:** 10640 Automotive Dr., Manassas  
**Pressure Zone:** GW – Gainesville  
**Sewershed:** BU – Bull Run  
**Magisterial District:** GN – Gainesville  
**Project Estimate:** PER  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Replacement of the Koon's Sewage Pumping Station to include new pumps and motors, grinder, wet well, meter/valve vault, HVAC, odor control, SCADA, mechanical and electrical equipment, standby generator, and perimeter fencing.  
**Project Benefit:** This project will improve service and reliability to customers within the sewershed and reduce maintenance costs.  
**Source Derivation:** GHD Koon's Sewage Pumping Station Preliminary Engineering Report, 2020; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
60	375	710	2582	0	0	0	3727

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Spinnaker Court Sewage Pumping Station, L02 and Force Main Replacement  
**CIP Number:** SPS-123  
**JDE Number(s):** 24SHRL0101  
**Location:** 2280 Spinnaker Ct., Woodbridge  
**Pressure Zone:** LR – Lake Ridge  
**Sewershed:** HR – Hooes Run  
**Magisterial District:** OC – Occoquan  
**Project Estimate:** PER  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Replacement of the Spinnaker Court Sewage Pumping Station to include new pumps and motors, grinder, wet well, meter/valve vault, HVAC, odor control, SCADA, mechanical and electrical equipment, standby generator, and perimeter fencing. Also included is the replacement of approximately 500 feet of existing 4-inch force main.  
**Project Benefit:** Bring an antiqued sewage pumping station, which was built in 1970, to current standards to improve station operation, reliability, security, and reduce maintenance costs.  
**Source Derivation:** GHD Spinnaker Court Sewage Pumping Station Preliminary Engineering Report, 2020; Managed by Engineering and Planning Division.

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
50	350	750	2242	0	0	0	3392

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** **Occoquan Creek Sewage Pumping Station, L04 Rehabilitation**  
**CIP Number:** SPS-125  
**JDE Number(s):** 24SOCL0701  
**Location:** 13221 Marina Way, Woodbridge  
**Pressure Zone:** WL – Woodbridge  
**Sewershed:** OC – Occoquan Creek  
**Magisterial District:** WB – Woodbridge  
**Project Estimate:** PER  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Rehabilitation of the existing Occoquan Creek Sewage Pumping Station to upgrade structural and mechanical systems, upgrade SCADA and electrical systems, and to include security measures and flood protection. This project also includes the design and construction of an emergency storage tank.

**Project Benefit:** The station’s pumping capacity will remain unchanged since there is adequate capacity to accommodate future projected development. The project shall improve pump station operation, reliability, security, and flood protection at the sewage pumping station against flow tides from the Occoquan Creek.

**Source Derivation:** GHD Occoquan Creek Sewage Pumping Station Preliminary Engineering Report, 2018; Managed by Engineering and Planning Division.

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
85	700	1310	5000	4842	0	0	11937

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Piney Branch Sewage Pumping Station, L26 Demolition and Gravity Sewer Extension  
**CIP Number:** SPS-126  
**JDE Number(s):** Not Assigned  
**Location:** Piney Branch SPS  
**Pressure Zone:** GW – Gainesville  
**Sewershed:** PB – Piney Branch, BR – Broad Run  
**Magisterial District:** BR – Brentsville  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

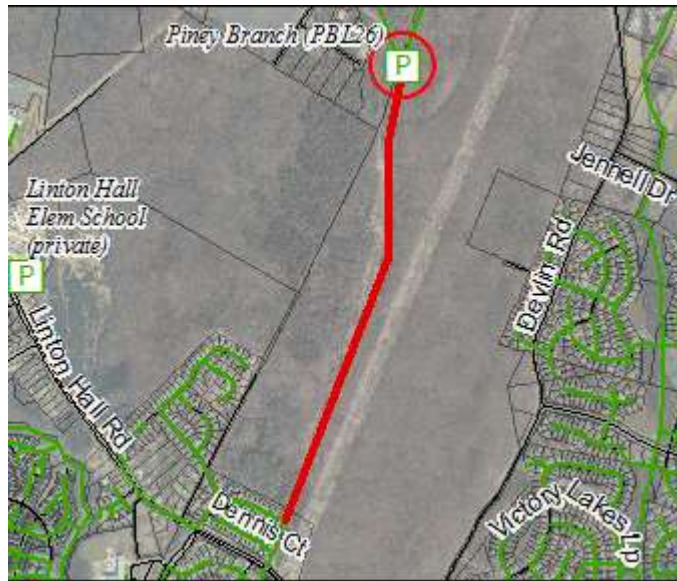
**PROJECT DESCRIPTION**

**Project Description:** Demolition of the existing Piney Branch Sewage Pumping Station that is undersized and has reached the end of its service life, and construction of approximately 6,600 feet of 24-inch gravity sewer main to combine the Piney Branch sewershed into the Broad Run sewershed. This project shall be constructed in conjunction with proposed future development through the Service Authority’s MPA process.

**Project Benefit:** Eliminate an antiqued sewage pumping station and provide a higher capacity gravity sewer main in order to provide reliable service to the combined sewersheds in compliance with the PWC Comprehensive Plan and VDEQ regulations.

**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	870	925	925	940	0	0	<b>3660</b>

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	60%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	15%
Other Contrib. – Development Contributions	25%
<b>PROJECT TOTAL</b>	<b>100%</b>



**Service Authority**  
Prince William County



**Sewage Collection Projects**

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Dumfries Force Main and Water Main Replacement  
**CIP Number:** SEW-106  
**JDE Number(s):** 24SDMM4502  
**Location:** Dumfries  
**Pressure Zone:** DT – Dumfries  
**Sewershed:** DM – Dumfries  
**Magisterial District:** PO – Potomac  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Replacement and relocation of approximately 4,000 feet of existing 16-inch force main and replacement of approximately 760 feet of existing 3-inch water main with new 6-inch DIP water main.

**Project Benefit:** The existing force main has experienced numerous breaks and presents a high risk of a major sanitary sewer overflow (SSO). The project shall provide better flow characteristics due to less friction loss for improved flow capacity. This project shall also improve the water distribution system by replacing a smaller water main with a larger one and completing a system loop.

**Source Derivation:** Engineering and Planning Division; Operations and Maintenance Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
915	750	2489	250	0	0	0	4404

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Sudley Road Sewer Main Replacement & Upgrade  
**CIP Number:** SEW-157  
**JDE Number(s):** 22SBUM0102  
**Location:** Sudley Rd. at the intersection with Coverstone Dr.  
**Pressure Zone:** GM – Greater Manassas  
**Sewershed:** BR –Bull Run  
**Magisterial District:** GN – Gainesville  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division, Baker

**PROJECT DESCRIPTION**

**Project Description:** Design and construction of approximately 2,840 feet of 24-inch sanitary sewer main and manholes from Sudley Road to Williamson Boulevard to replace an existing 12-inch gravity sewer main.  
**Project Benefit:** This project shall increase capacity along the Sudley Road corridor to accommodate future anticipated growth.  
**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1054	3823	800	0	0	0	0	5677

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	75%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	25%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** I-66 Rest Area Sewer Main Replacement  
**CIP Number:** SEW-158  
**JDE Number(s):** Not Assigned  
**Location:** Manassas, I-66 Rest Area  
**Pressure Zone:** GM – Greater Manassas  
**Sewershed:** BR – Bull Run  
**Magisterial District:** GN – Gainesville  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Replacement of approximately 350 feet of existing 16-inch gravity sanitary sewer main crossing underneath I-66.  
**Project Benefit:** The existing gravity sanitary sewer main is showing signs of severe deterioration and has several sags. Replacement shall increase capacity and reliability, minimize the potential for a sanitary sewer overflow (SSO), and reduce inflow and infiltration.  
**Source Derivation:** Operations and Maintenance Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	294	480	0	0	0	0	774

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Sewer Collection Rehabilitation & Replacement Program  
**CIP Number:** SEW-200  
**JDE Number(s):** Not Assigned  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Operations and Maintenance Division

**PROJECT DESCRIPTION**

**Project Description:** Rehabilitation, replacement and/or stabilization of sewer collection system facilities including sewer main and manhole re-lining, isolation and air-release valve repair and replacement, sewer lateral repairs, and other miscellaneous system repairs. The facilities scheduled for rehabilitation during this 5-year CIP period include the re-lining of sewer main in Rixlew Lane, Town of Occoquan, Belmont Area, Old Triangle Road, Horner Road, Old Bridge Road, Shore Court, Old Stage Road and Sharon Road in addition to miscellaneous manhole rehabilitation and service line repairs. The timing and execution are subject to change based on operational needs and priorities.

**Project Benefit:** The rehabilitation or replacement of sewer collection system facilities will reduce maintenance costs, reduce inflow and infiltration, and extend the life of the assets.

**Source Derivation:** Operations and Maintenance Division; Managed by Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	1100	1500	1500	1500	1500	0	7100

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>



**Service Authority**  
Prince William County



**Water Reclamation Facility Projects**

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Ongoing Renewal and Replacement  
**CIP Number:** WRF-123  
**JDE Number(s):** Multiple  
**Location:** H.L. Mooney AWRF  
**Pressure Zone:** WL - Woodbridge  
**Sewershed:** NE – Neabsco  
**Magisterial District:** WB - Woodbridge  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Environmental Services and Water Reclamation Division

**PROJECT DESCRIPTION**

**Project Description:** On-going major updating, restoration, and replacement projects for management of the H.L. Mooney AWRF to maintain and extend useful life of assets and address regular wear and asset aging.  
**Project Benefit:** Maintain operations, permit compliance, and plant resilience.  
**Source Derivation:** Environmental Services and Water Reclamation Division; Managed by Environmental Services and Water Reclamation Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
971	1600	2225	2725	2725	2725	0	12971

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Dynamic Hydraulic Model and Instrumentation  
**CIP Number:** WRF-126  
**JDE Number(s):** 24NMPP0801, 22NMPP0801  
**Location:** H.L. Mooney AWRF  
**Pressure Zone:** WL - Woodbridge  
**Sewershed:** NE – Neabsco  
**Magisterial District:** WB - Woodbridge  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Environmental Services and Water Reclamation Division

**PROJECT DESCRIPTION**

**Project Description:** A full-plant hydraulic simulation model representing existing facilities and controls will be developed for the H.L. Mooney AWRF. The project includes data collection, installation of metering, model development and calibration, and a PER for hydraulic improvements. The hydraulic modeling is phased, first from plant inlet through primary clarifiers, and then from bioreactor basins to the outfall.

**Project Benefit:** The instrumentation and dynamic simulation model facilitates selection of physical plant improvements to meet hydraulic capacity needs and address potential to overflow.

**Source Derivation:** Environmental Services and Water Reclamation Division; Managed by Environmental Services and Water Reclamation Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
651	100	100	100	300	300	0	1551

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	30%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	70%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** FBI and Solids Building Repairs and Modifications  
**CIP Number:** WRF-131  
**JDE Number(s):** 22NMPP1201, 24NMPP1201  
**Location:** H.L. Mooney AWRF  
**Pressure Zone:** WL – Woodbridge  
**Sewershed:** NE – Neabsco  
**Magisterial District:** WB – Woodbridge  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Environmental Services and Water Reclamation Division

**PROJECT DESCRIPTION**

**Project Description:** Repair and refurbishment of the existing Solids Building and Fluidized Bed Incinerator (FBI) equipment, including design and installation of new or replacement equipment from the gravity thickeners to the ash basins. Projects will include a condition assessment, solids equipment upgrades, ash basin improvements, new heat exchanger, ducts and plenums, and Solids Building modifications, repairs, and refurbishment.

**Project Benefit:** Necessary for operational resilience and regulatory compliance for solids handling.

**Source Derivation:** Environmental Services and Water Reclamation Division; Managed by Environmental Services and Water Reclamation Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
468	984	950	1250	1000	1000	0	5652

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	30%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	70%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Bioreactor Basin Improvements  
**CIP Number:** WRF-134  
**JDE Number(s):** 24SMPQ0101  
**Location:** H.L. Mooney AWRF  
**Pressure Zone:** WL – Woodbridge  
**Sewershed:** NE – Neabsco  
**Magisterial District:** WB – Woodbridge  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Environmental Services and Water Reclamation Division

**PROJECT DESCRIPTION**

**Project Description:** Major bioreactor basin equipment renewal including, but not limited to, mixers, meters, diffusers, baffles, gates, pumps, and blowers. Modification to the bioreactor basin equipment, instrumentation and controls, and engineering evaluations and pilot testing, to improve such things as, but not limited to, mixed liquor settling, improve process monitoring and control, adjust biological reactions, and reduce chemical dosages. Upgrades to blowers including, but not limited to, technology, motors, and various blower components and technology.

**Project Benefit:** Increased operational resiliency, permit compliance, and maximization of treatment capacity in existing infrastructure.

**Source Derivation:** Environmental Services and Water Reclamation Division; Managed by Environmental Services and Water Reclamation Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1002	300	500	500	1000	1000	0	4302

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	30%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	70%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Facility Wide Improvements – Design-Build Project  
**CIP Number:** WRF-138  
**JDE Number(s):** 22SMPP0012, 24SMPP0012  
**Location:** H.L. Mooney AWRF  
**Pressure Zone:** WL – Woodbridge  
**Sewershed:** NE – Neabsco  
**Magisterial District:** WB – Woodbridge  
**Project Estimate:** Order of Magnitude  
**Estimate By:** RK&K

**PROJECT DESCRIPTION**

**Project Description:** Project includes improvements to several areas of the plant including: primary clarifier odor control upgrades; primary clarifier collection equipment upgrades; primary clarifier electrical improvements; equalization basin modifications; influent flow diversion structure; UV Building – additional UV equipment; yard valve replacement; methanol storage addition; lime system upgrades; ferric system improvements; secondary clarifier improvements; plant structural protection and refurbishment; polymer system replacement.

**Project Benefit:** This project will provide improved plant resiliency, level of service, and allow the plant to continue to meet its NPDES permit requirements.

**Source Derivation:** Environmental Services and Water Reclamation Division; Managed by Environmental Services and Water Reclamation Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
453	7000	24000	35000	33000	22000	0	121453

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	30%
Repl. Fund (04) – User Rates	70%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Replace / Upgrade Freight Elevators  
**CIP Number:** WRF-142  
**JDE Number(s):** 24NMPP1001  
**Location:** H.L. Mooney AWRP  
**Pressure Zone:** WL – Woodbridge  
**Sewershed:** NE – Neabsco  
**Magisterial District:** WB – Woodbridge  
**Project Estimate:** Order of Magnitude  
**Estimate By:** RK&K

**PROJECT DESCRIPTION**

**Project Description:** The project includes design and construction of refurbishments of the existing freight elevators in the Controls and Process Building and the Solids Handling Building.  
**Project Benefit:** This project improves reliability and level of service for the freight elevators which are necessary for plant maintenance and operations and will reduce elevator maintenance requirements.  
**Source Derivation:** Environmental Services and Water Reclamation Division; Managed by Environmental Services and Water Reclamation Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
230	900	200	0	0	0	0	1330

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>



# Service Authority

Prince William County



## Miscellaneous Projects

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Water and Sewer Master Plan Utility Adjustments (MPUA)  
**CIP Number:** MISC-100  
**JDE Number(s):** Multiple  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** This project provides the funding for the SA to participate in the construction of water and sewer mains in conjunction with new development and VDOT/County road projects. This project also covers the cost to increase pipe sizes in accordance with the Master Plan and other studies to provide additional capacity and improve system operations and efficiencies. The funding for this program is allocated evenly between the Expansion and Replacement funds to account for the undefined betterments; however, each project shall be evaluated independently to determine the appropriate funding allocation.

**Project Benefit:** This project provides for a more efficient and effective way for the timely extension of infrastructure and improvement of system operations.

**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	2000	2000	2000	2000	2000	0	10000

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	50%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** PWCSA Water & Sewer Facilities Security Enhancements  
**CIP Number:** MISC-101  
**JDE Number(s):** 24NCWU0004, 74WHOF0001, 74NLRS0001  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Operations and Maintenance Division

**PROJECT DESCRIPTION**

**Project Description:** To mitigate risks and potential threats identified in the Vulnerability Assessment performed on the SA water distribution and sewer collection facilities by installing or upgrading security features or equipment at various SA owned and operated facilities throughout PWC. Security enhancements include, but are not limited to, fencing, security cameras, card readers, security gates, signage, security guards, bollards, locks, barriers, berms, lighting, alarms, and IT enhancements.

**Project Benefit:** This project will provide protection against unauthorized entry, vandalism, and/or destruction of facilities. The enhancements will minimize potential threats to the water distribution and sewer collection systems and help prevent endangerment of employees and the general public. This project will comply with the Federal Mandate for security audit and security enhancement program.

**Source Derivation:** Federal Mandate of Vulnerability Study for Utility Systems, Operations and Maintenance; Managed by Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	100	500	500	500	500	0	2100

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Wellington Road Operations Center Expansion  
**CIP Number:** MISC-102  
**JDE Number(s):** 12NWCH0001, 14NWCH0001  
**Location:** Virginia Meadows Industrial Park  
**Pressure Zone:** GW – Gainesville  
**Sewershed:** BR – Broad Run  
**Magisterial District:** BR – Brentsville  
**Project Estimate:** Order of Magnitude  
**Estimate By:** RDA, Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Design and construction of an approximately 25,000 square foot maintenance building and expansion of the existing Wellington Road Operations Center. This project will relocate an existing storm water management pond for better space utilization to include more parking space, and additional fuel and material storage. Additionally, the project shall assess the flow of traffic around the facility.

**Project Benefit:** Improve working conditions by providing additional space for construction vehicles, materials, fuel for emergency response, day-to-day maintenance, repair, and inspection operations. Additionally, the project will improve the flow of traffic through the facility.

**Source Derivation:** Engineering and Planning Division, Operations and Maintenance Division, General Conditions Facility Assessment (2009); Managed by Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
69	0	0	328	678	678	0	1753

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	50%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** PWCSA Facilities Renewals and Upgrades  
**CIP Number:** MISC-103  
**JDE Number(s):** 24NWCUC0002, 74NGWH0001, 24NSCU0102  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Operations and Maintenance

**PROJECT DESCRIPTION**

**Project Description:** Renovations to accommodate the expansion of staff at the Spittle Building and to change functions at facilities owned by the SA.  
**Project Benefit:** This project will improve the functionality of SA facilities by providing additional space for the expansion of staff, change of functions at facilities, reduce energy costs, and ensure a safe and comfortable work environment for SA staff.  
**Source Derivation:** Engineering and Planning Division; Managed by Operations and Maintenance

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
948	200	500	500	500	500	0	3148

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Spittle Office Building Addition  
**CIP Number:** MISC-112  
**JDE Number(s):** 12NSCH0009, 14NSCH0009  
**Location:** Spittle Complex  
**Pressure Zone:** HO – Hoadly  
**Sewershed:** WA – Airport  
**Magisterial District:** OC – Occoquan  
**Project Estimate:** PER  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Design and construction of a three story, forty-two thousand square foot addition to the existing Spittle Building to accommodate the current and future space needs of the SA. The project also includes one hundred parking spaces and associated access drives.

**Project Benefit:** This project will improve the functionality of SA facilities by providing additional space for expansion of staff, reduce energy costs, and ensure a safe and comfortable work environment for SA staff.

**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1189	0	400	7000	8000	261	0	16850

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	50%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

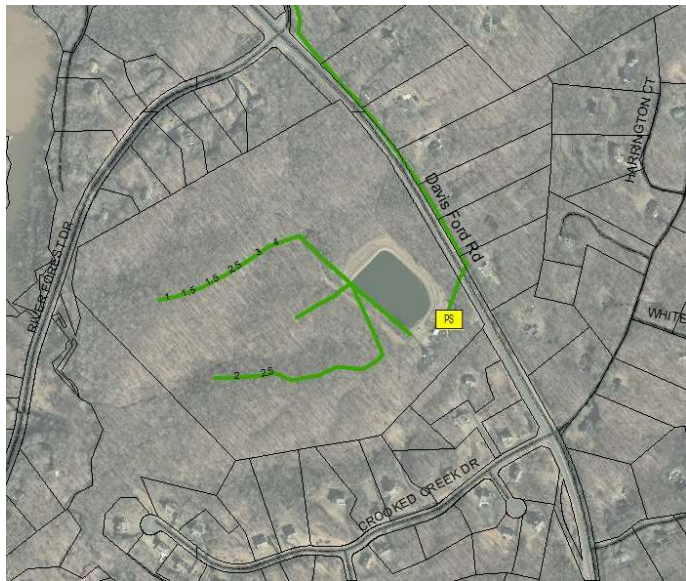
**PROJECT INFORMATION**

**Project Name:** Ocoquan Forest WWTP Closure & Site Restoration  
**CIP Number:** MISC-113  
**JDE Number(s):** 24SOQU0101  
**Location:** Ocoquan Forest WWTP – Davis Ford Rd.  
**Pressure Zone:** HO – Hoadly  
**Sewershed:** OQ – Ocoquan Forest  
**Magisterial District:** WB – Woodbridge  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Design, permitting, and demolition for the decommissioning of the Ocoquan Forest Wastewater Treatment Plant (WWTP) and site restoration of the receiving pond in accordance with the Prince William County and Service Authority property sale agreement dated July 16, 2013. The discharge permit for the WWTP has expired and the plant has been replaced by a pumping station.  
**Project Benefit:** This project is to meet VDEQ requirements and land sale.  
**Source Derivation:** Engineering and Planning Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
1403	213	0	0	0	0	0	1616

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** System Wide Master Plan  
**CIP Number:** MISC-114  
**JDE Number(s):** 22NCWE0101  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Contract Award  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** Preparation of a comprehensive, system wide master plan that includes sewer collection, wastewater treatment, water distribution, and water source and supply options. This study covers the evaluation of existing systems and will provide recommendations on system improvements necessary to meet future projected demands and regulatory requirements. This project accounts for the capitalized portion of the Master Plan cost with the balance covered in the operational budget.

**Project Benefit:** The goal of this study is to establish short, medium and long term utility needs in order to maintain service levels to existing customers and to plan for meeting future growth and demand.

**Source Derivation:** Engineering and Planning Division, Environmental Services and Water Reclamation Division; Managed by Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
300	300	0	0	0	0	0	600

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	100%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	-
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** County Wide Emergency Capital Work  
**CIP Number:** MISC-115  
**JDE Number(s):** Multiple  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** This project covers emergency replacement or repair of water mains, sewer mains, manholes, and appurtenances county wide that could arise during the fiscal year. This project also includes funding for unforeseen emergency maintenance and repairs to capital facilities at the H.L. Mooney AWRF.

**Project Benefit:** The goal of this project is to maintain a reliable and operational system, and to account for emergency rehabilitation and/or replacements within a reasonable time frame. This project will improve hydraulic capacity, reliability, and service to the customers.

**Source Derivation:** Operations and Maintenance Division, Environmental Services and Water Reclamation Division; Managed by Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	450	1300	1300	1300	1300	0	5650

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** English Gardens Property Building Addition & Improvements  
**CIP Number:** MISC-116  
**JDE Number(s):** Not Assigned  
**Location:** 14195 Dumfries Rd.  
**Pressure Zone:** OR – Oak Ridge  
**Sewershed:** PC – Powells Creek  
**Magisterial District:** CO – Coles  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Management and Budget Division

**PROJECT DESCRIPTION**

**Project Description:** Demolition of an existing building, as well as design and construction of a new building to replace the previous building and Auxiliary Building.  
**Project Benefit:** This project will improve the functionality of SA facilities by providing additional and redefined space for staff and ensure a safe and comfortable work environment for SA staff.  
**Source Derivation:** Management and Budget Division, Operations and Maintenance Division; Managed by Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
70	0	170	160	0	0	0	400

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	50%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Studies and PER's – Organization Wide  
**CIP Number:** MISC-117  
**JDE Number(s):** Multiple  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Engineering and Planning Division

**PROJECT DESCRIPTION**

**Project Description:** This project covers the funding for studies and preliminary engineering reports (PER's) organization-wide to evaluate existing business systems or facility assets, and provide recommendations on improvements, upgrades, or replacements as necessary to increase efficiencies, improve employee safety, meet future projected demands, or satisfy regulatory requirements.

**Project Benefit:** The goal of these studies is to identify alternatives for improvements to move into detailed design to maintain service levels to existing customers, and to plan for meeting future growth and demand.

**Source Derivation:** Engineering and Planning Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	620	400	400	400	400	0	2220

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	50%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	50%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Vehicle Replacement Program  
**CIP Number:** MISC-200  
**JDE Number(s):** Multiple  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Operations and Maintenance Division

**PROJECT DESCRIPTION**

**Project Description:** The SA operates and maintains a fleet of vehicles in order to provide service to its customers. In addition, the SA evaluates each vehicle annually and retains vehicles that are still in good condition regardless of the replacement criteria. Vehicles identified for replacement over the next two years include tandem-axle flat beds, small high-side dump trucks, closed-circuit television vehicles, sport utility vehicles, and various equipped full and mid-sized pick-up trucks.

**Project Benefit:** This program provides guidelines for vehicle replacement that balances safety, reliability, capital costs, and maintenance costs.

**Source Derivation:** Operations and Maintenance Division; Managed by Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	1100	1170	1130	1158	500	0	5058

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Mechanical Equipment Replacement Program  
**CIP Number:** MISC-201  
**JDE Number(s):** Multiple  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Operations and Maintenance Division

**PROJECT DESCRIPTION**

**Project Description:** Replacement of single equipment unit items with a cost value of \$5,000 or greater required for SA operations to perform duties and fulfill customer requirements. These items include pumping units, channel grinders, HVAC units, variable frequency drives, and reduced voltage solid state starters.

**Project Benefit:** Reaching performance targets, compliance with regulatory requirements, maximization of the return on capital, and increased stakeholder value.

**Source Derivation:** Operations and Maintenance Division; Managed by Operations and Maintenance Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	2200	1180	1053	1025	558	0	<b>6016</b>

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Computer and Other Replacement Program  
**CIP Number:** MISC-202  
**JDE Number(s):** Multiple  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Management and Budget Division

**PROJECT DESCRIPTION**

**Project Description:** Replacement of single computers or other miscellaneous unit items with a cost value of \$5,000 or greater required for SA operations to perform duties and fulfill customer requirements. These items include server and network hardware, network storage, phone systems, and SCADA servers.  
**Project Benefit:** Replaces hardware and other miscellaneous capital equipment that is approaching the end of its service life within the next 15 months.  
**Source Derivation:** Management and Budget Division; Information Technology Division; Managed by Information Technology Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	800	910	500	500	500	0	3210

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>



**Service Authority**  
Prince William County



**Information Technology Projects**

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** JD Edwards Upgrade  
**CIP Number:** IT-105  
**JDE Number(s):** 14NSCG0109  
**Location:** Spittle  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Information Technology Division

**PROJECT DESCRIPTION**

**Project Description:** As part of the SA’s Organizational Strategic Plan and IT’s Strategic Plan, this project involves upgrades and custom design features to the JD Edwards system.  
**Project Benefit:** This project will add mobile capabilities, reporting capabilities, and Procure to Pay functionality.  
**Source Derivation:** Information Technology Division; Managed by Information Technology Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
573	375	0	0	0	0	0	948

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

## PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET

### PROJECT INFORMATION

**Project Name:** Cayenta – CIS  
**CIP Number:** IT-106  
**JDE Number(s):** 14NSCG0110  
**Location:** Spittle  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Information Technology Division

### PROJECT DESCRIPTION

**Project Description:** As part of the SA's Organizational Strategic Plan and IT's Strategic Plan, this project involves upgrading the Cayenta Customer Information System (CIS) to Version 9 and replacing the Customer Self Service system components and deploying new customer-focused functionality.

**Project Benefit:** This project shall improve the SA customer experience by replacing the current bill-pay site with a modern, mobile ready, customer portal. Additionally, the project includes upgrades to the Cayenta CIS for improved system reliability and capabilities.

**Source Derivation:** Information Technology Division; Managed by Information Technology Division

### PROJECT PICTURE



### PROJECT FUNDING

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
50	330	350	135	0	0	0	865

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Computerized Maintenance Management System (CMMS) Implementation  
**CIP Number:** IT-107  
**JDE Number(s):** 14NAAG0112  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Information Technology Division

**PROJECT DESCRIPTION**

**Project Description:** As part of the SA’s Organizational Strategic Plan and IT’s Strategic Plan, this project involves replacement of the current CMMS system (Hansen) to a CMMS better aligned with SA business needs (Cityworks).  
**Project Benefit:** Cityworks provides improved work order management, inventory management, and asset management planning related to the SA's collection, distribution, facility, and information technology assets.  
**Source Derivation:** Information Technology Division, Operations and Management Division; Managed by Information Technology Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
4748	1917	1650	1380	1092	500	0	11287

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Document Management System Implementation  
**CIP Number:** IT-110  
**JDE Number(s):** Not Assigned  
**Location:** Spittle  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Information Technology Division

**PROJECT DESCRIPTION**

**Project Description:** As part of the SA’s Organizational Strategic Plan and IT’s Strategic Plan, this project will develop a SA-wide central document repository.  
**Project Benefit:** A document management system shall provide a governed, central repository to store the organization’s documents and improve document retrieval. Additionally, the Document Management System will provide improved control of document versioning and collaboration.  
**Source Derivation:** Information Technology Division; Managed by Information Technology Division.

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
75	525	483	0	0	0	0	1083

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Vertical Asset Data Development  
**CIP Number:** IT-117  
**JDE Number(s):** 14NAAG0240  
**Location:** Spittle  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Data Management Division

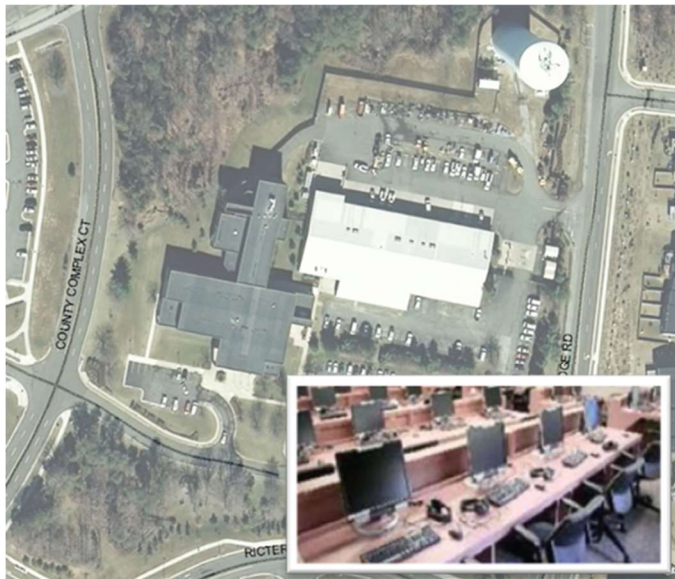
**PROJECT DESCRIPTION**

**Project Description:** Development of a GIS vertical asset register in support of work-order management (CMMS) and Asset Management Analytics. This project includes discovery, planning, database development, and data capture.

**Project Benefit:** GIS vertical asset data shall enable effective use of the SA's CMMS system for assets located within the H.L. Mooney AWRF and WWF facilities. Additionally, vertical asset data shall enable data-driven asset management planning.

**Source Derivation:** Data Management Division; Managed by Data Management Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
350	175	200	75	0	0	0	800

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** System Integration  
**CIP Number:** IT-118  
**JDE Number(s):** 14NAAG0230  
**Location:** Spittle  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Data Management Division

**PROJECT DESCRIPTION**

**Project Description:** This project modernizes existing legacy, point-to-point system integrations to Dell Boomi to align with the SA technology strategy and reduces total cost of ownership.

**Project Benefit:** Successful implementation of mature analytics that support data-driven decision making relies on the ability to efficiently access critical data stored in multiple business systems across the enterprise. This project shall provide a scalable, consistent approach to integrating business systems, automate manual workflows, and improve analytics and reporting capabilities.

**Source Derivation:** Data Management Division; Managed by Data Management Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
310	585	98	97	0	0	0	1090

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

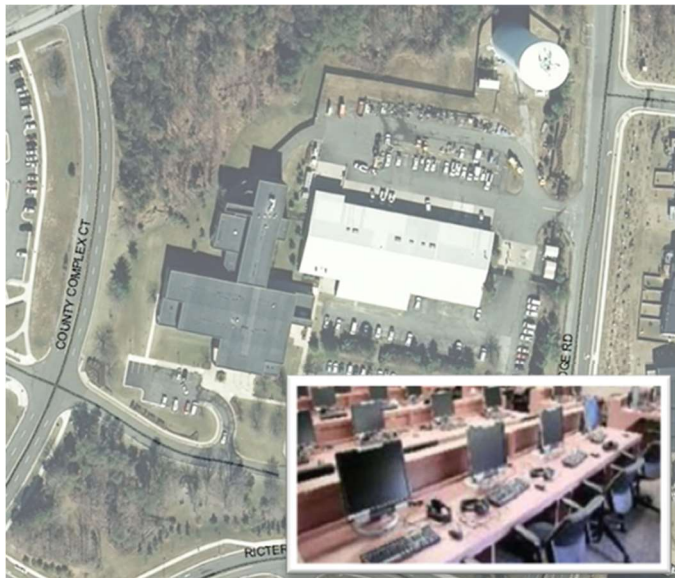
**PROJECT INFORMATION**

**Project Name:** Asset Management Analytics  
**CIP Number:** IT-121  
**JDE Number(s):** 14NAAG0280  
**Location:** Spittle  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Data Management Division

**PROJECT DESCRIPTION**

**Project Description:** Development of the frameworks, standards, processes, and tools necessary for data-driven asset management planning.  
**Project Benefit:** Enterprise-wide asset management analytics affords the SA the ability to plan work from an organization-wide perspective, understand cross-divisional dependencies and priorities, and develop data-driven asset management plans.  
**Source Derivation:** Data Management Division; Managed by Data Management Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	75	180	150	0	0	0	405

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Project Management Information System (PMIS) Implementation

**CIP Number:** IT-122

**JDE Number(s):** Not Assigned

**Location:** Spittle

**Pressure Zone:** Multiple

**Sewershed:** Multiple

**Magisterial District:** Multiple

**Project Estimate:** Order of Magnitude

**Estimate By:** Information Technology Division

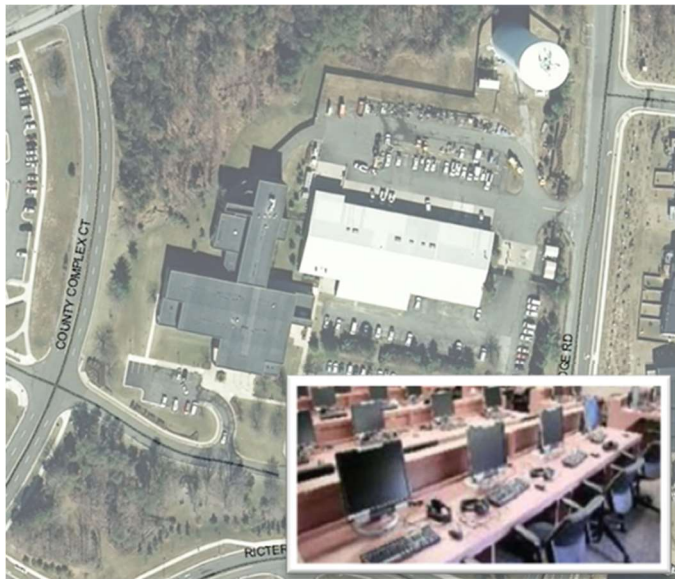
**PROJECT DESCRIPTION**

**Project Description:** Design, configure, test, and implement a Project Management Information System (PMIS) to improve workflow efficiencies across the organization.

**Project Benefit:** A PMIS will provide a systematic approach to managing projects across all phases of the project life cycle from planning to project close-out. A PMIS will also afford the SA the ability to manage project documentation, schedules, and costs more efficiently.

**Source Derivation:** Information Technology Division; Managed by Information Technology Division.

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	1030	770	690	0	0	0	2490

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	30%
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	70%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** IT Cybersecurity Program  
**CIP Number:** IT-125  
**JDE Number(s):** Not Assigned  
**Location:** Spittle  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Information Technology Division

**PROJECT DESCRIPTION**

**Project Description:** As part of the SA’s Organizational Strategic Plan and IT’s Strategic Plan, this project will develop and deploy a SA Cybersecurity program. The project will include hardware, software, and consulting services.

**Project Benefit:** This program will establish a well-defined cybersecurity program, increasing our existing security and establishing consistent, repeatable processes. The project will consist of building out the systems and processes defined in the Cybersecurity Roadmap.

**Source Derivation:** Information Technology Division; Managed by Information Technology Division

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	250	250	200	200	250	0	1150

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** SCADA System Upgrade  
**CIP Number:** IT-126  
**JDE Number(s):** Not Assigned  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Information Technology Division

**PROJECT DESCRIPTION**

**Project Description:** As part of the SA’s Organizational Strategic Plan and IT’s Strategic Plan, this project involves planning, design, deployment, and owner services for the replacement of the SA’s legacy SCADA system.

**Project Benefit:** This project replaces obsolete SCADA equipment with current technology for improved SCADA system reliability and security, automation of manual processes, and real-time monitoring and reporting.

**Source Derivation:** Information Technology Division; Managed by Information Technology Division.

**PROJECT PICTURE**



**PROJECT FUNDING**

PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
642	4685	3727	4435	3577	4435	0	21501

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>

**PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET**

**PROJECT INFORMATION**

**Project Name:** Web Content Management System Migration  
**CIP Number:** IT-127  
**JDE Number(s):** Not Assigned  
**Location:** County Wide  
**Pressure Zone:** Multiple  
**Sewershed:** Multiple  
**Magisterial District:** Multiple  
**Project Estimate:** Order of Magnitude  
**Estimate By:** Information Technology Division

**PROJECT DESCRIPTION**

**Project Description:** This project shall migrate content on the SA’s three complex websites (pwcsa.org, h2olab.org, and the “SA Splash” Intranet) to the upgraded Content Management System (CMS).  
**Project Benefit:** Migrating content on the SA’s three websites to the newer version of the CMS is imperative as technical service of the current version of the software will be discontinued in November 2022. Websites running on older versions of the platform may be flagged as insecure during third-party scans. The newer version of CMS will strengthen the security of the websites and enhance front-end users’ experiences.  
**Source Derivation:** Information Technology Division; Managed by Information Technology Division

**PROJECT PICTURE**



**PROJECT FUNDING**

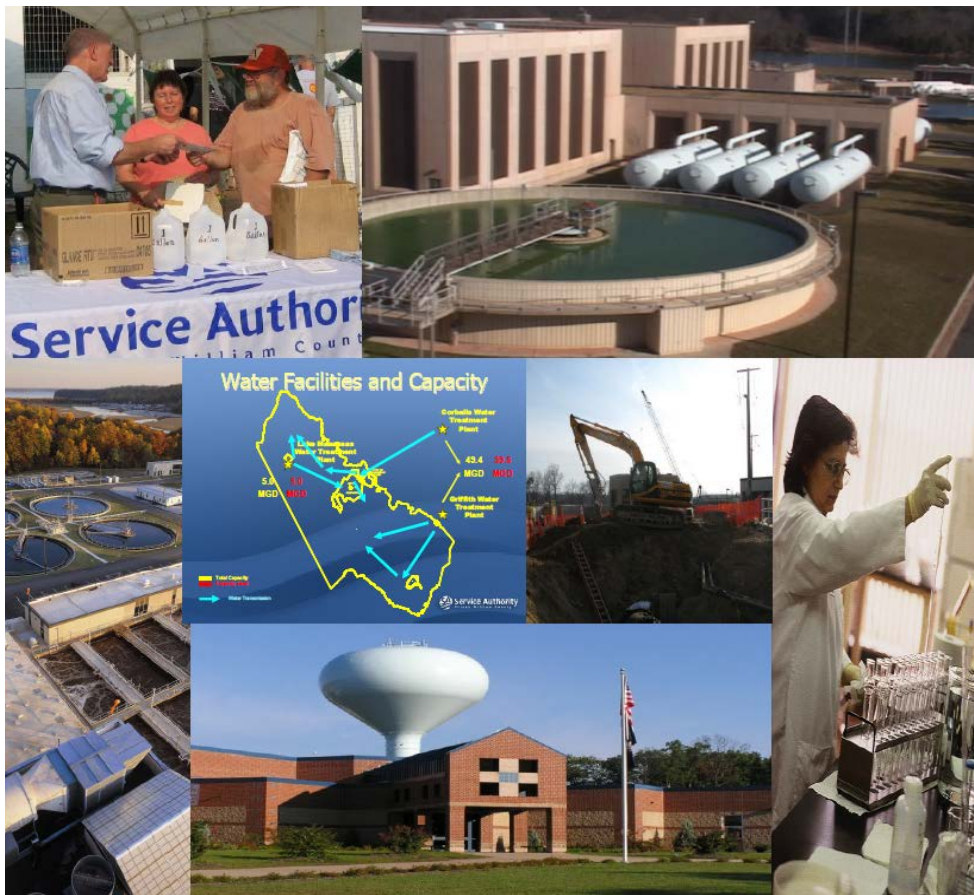
PRE-FY22	FY22	FY23	FY24	FY25	FY26	POST-FY26	TOTAL
0	150	205	0	0	0	0	355

Proposed Funding Sources	
Exp. Fund (02) – Availability Fees	-
Commit. Fund (03) – Availability Fees	-
Repl. Fund (04) – User Rates	100%
Other Contrib. – Development Contributions	-
<b>PROJECT TOTAL</b>	<b>100%</b>



# Service Authority

Prince William County



## Regional Utility Projects



**CAPITAL IMPROVEMENT PROGRAM  
FISCAL YEARS 2022 - 2026**



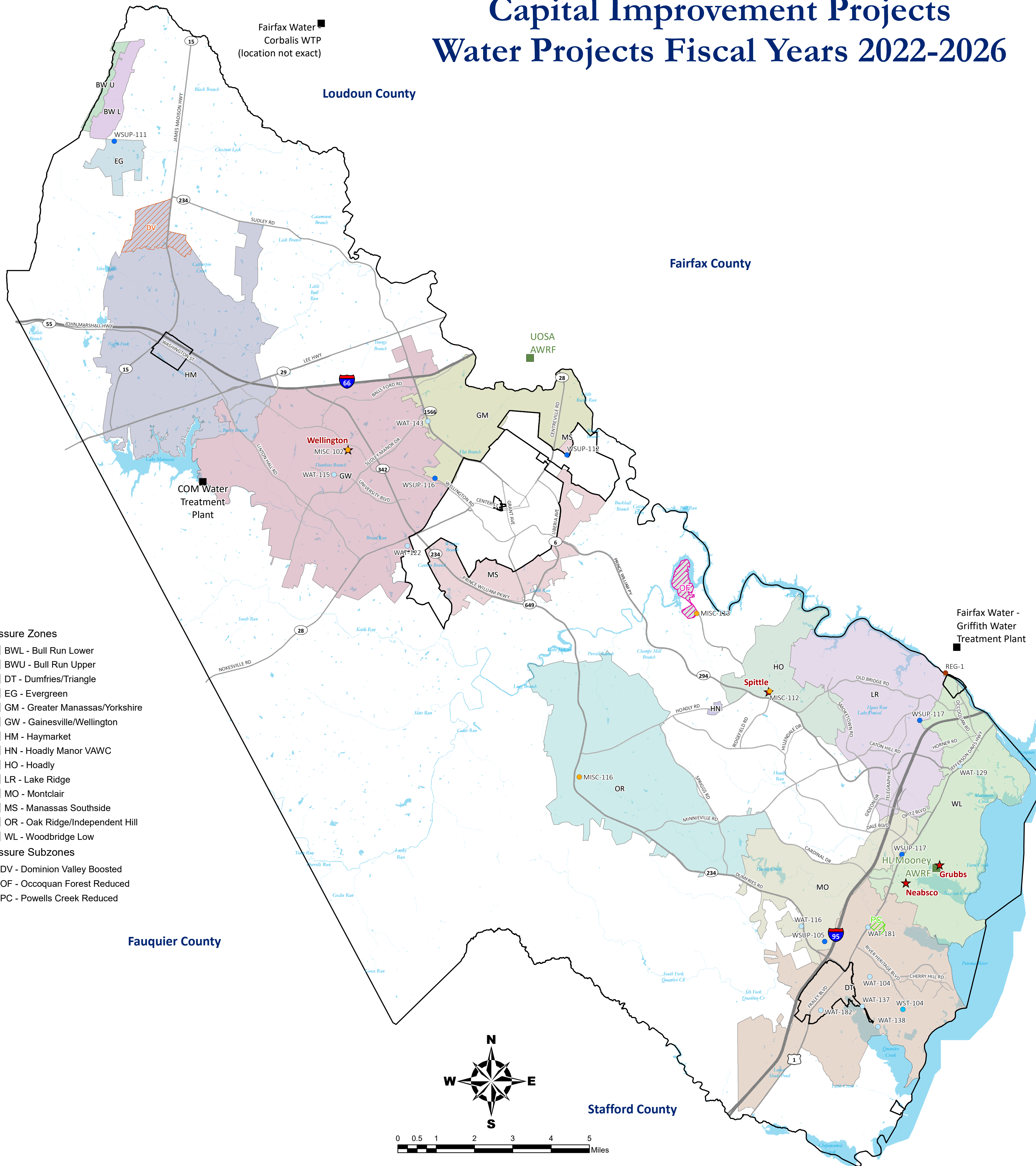
**Service Authority**  
Prince William County

**SECTION C**

**PROJECT MAPS**

# Capital Improvement Projects

## Water Projects Fiscal Years 2022-2026



- Pressure Zones**
- BWL - Bull Run Lower
  - BWU - Bull Run Upper
  - DT - Dumfries/Triangle
  - EG - Evergreen
  - GM - Greater Manassas/Yorkshire
  - GW - Gainesville/Wellington
  - HM - Haymarket
  - HN - Hoadly Manor VAWC
  - HO - Hoadly
  - LR - Lake Ridge
  - MO - Montclair
  - MS - Manassas Southside
  - OR - Oak Ridge/Independent Hill
  - WL - Woodbridge Low
- Pressure Subzones**
- DV - Dominion Valley Boosted
  - OF - Occoquan Forest Reduced
  - PC - Powells Creek Reduced

- Regional Utility Projects (REG)**
- REG-1 Occoquan River Crossing
- Information Technology Projects (IT)**
- IT-105 JD Edwards Upgrade
  - IT-106 Cayenta - CIS
  - IT-107 Computerized Maintenance Management System (CMMS) Implementation
  - IT-110 Document Management System Implementation
  - IT-117 Vertical Asset Data Development
  - IT-118 System Integration
  - IT-121 Asset Management Analytics
  - IT-122 Project Management Information System (PMIS) Implementation
  - IT-125 IT Cybersecurity Program
  - IT-126 SCADA System Upgrade
  - IT-127 Web Content Management System Migration
- Miscellaneous Projects (MISC)**
- MISC-100 Water and Sewer Master Plan Utility Adjustments (MPUA)
  - MISC-101 PWCSA Water & Sewer Facility Security Enhancements
  - MISC-102 Wellington Road Operations Center Expansion
  - MISC-103 PWCSA Facilities Renewals and Upgrades
  - MISC-112 Spittle Office Building Addition
  - MISC-113 Occoquan Forest WWTP Closure & Site Restoration
  - MISC-114 System Wide Master Plan
  - MISC-115 County Wide Emergency Capital Work
  - MISC-116 English Gardens Property Building Addition & Improvements
  - MISC-117 Studies and PER's - Organization Wide
  - MISC-200 Vehicle Replacement Program
  - MISC-201 Mechanical Equipment Replacement Program
  - MISC-202 Computer and Other Replacement Program
- Water Supply Projects (WSUP)**
- WSUP-103 Water Meter Vault Improvements
  - WSUP-105 Montclair/Four Seasons Water System Improvements
  - WSUP-111 Bull Run Mountain Well Upgrades
  - WSUP-112 Manassas Southside Booster Pumping Station Upgrades
  - WSUP-114 Capital Meter Program
  - WSUP-116 Unity Reed (F14) Booster Pumping Station and Discharge Main
  - WSUP-117 Eastern Area Pressure Reducing Valves
  - WSUP-118 New Service Authority Water Supply Plant - Land Acquisition Requirements
- Water Storage Projects (WST)**
- WST-104 Potomac Shores Water Storage Tank
  - WST-110 Water Storage Tank Rehabilitation Program
  - WST-111 Tank Re-Chlorination Program
- Water Transmission Projects (WAT)**
- WAT-104 Potomac Shores Parkway Transmission Main
  - WAT-115 Dawkins Branch Transmission Main
  - WAT-116 Montclair Pressure Zone Improvements - Route 234
  - WAT-122 Gainesville to Manassas South Connector
  - WAT-129 Route 1 Water Main Reinforcement, North
  - WAT-137 Possum Point Road Water Main Replacement - Phase 1
  - WAT-138 Possum Point Road Water Main Replacement - Phase 2
  - WAT-143 Sudley Road Water Main Improvements - Phase 2
  - WAT-181 Rt. 1 Transmission Main - Phase 1
  - WAT-182 Rt. 1 Transmission Main - Phase 2
  - WAT-200 Water Distribution Asset Replacement Program

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# Capital Improvement Projects Sewer Projects Fiscal Years 2022-2026



**Service Authority**  
Exceptional Water Service

- Sewer Sheds**
- BM - Belmont
  - BR - Broad Run
  - BU - Bull Run
  - CB - Cabin Branch
  - CC - Catharpin Creek
  - DE - Deweys Branch
  - DM - Dumfries
  - FB - Flat Branch
  - FS - Featherstone
  - GD - Godwin Drive
  - HB - Holkums Branch
  - HR - Hooes Run
  - HS - Harbor Station
  - LB - Little Bull Run
  - LC - Little Creek
  - MR - Meirose
  - NB - North Branch
  - NE - Neabsco
  - NK - Nokesville
  - OC - Occoquan Creek
  - OQ - Occoquan Forest
  - OS - Occoquan Plant
  - OT - Occoquan Town
  - PB - Piney Branch
  - PC - Powells Creek
  - PU - Purcell Branch
  - RU - Russia Branch
  - WA - Airport
  - YB - Youngs Branch
  - YS - Yorkshire

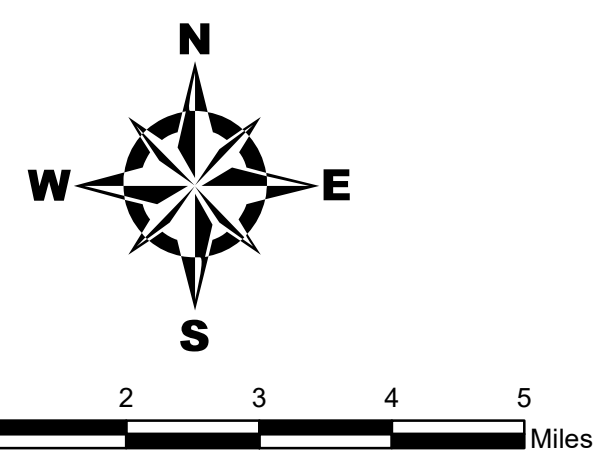
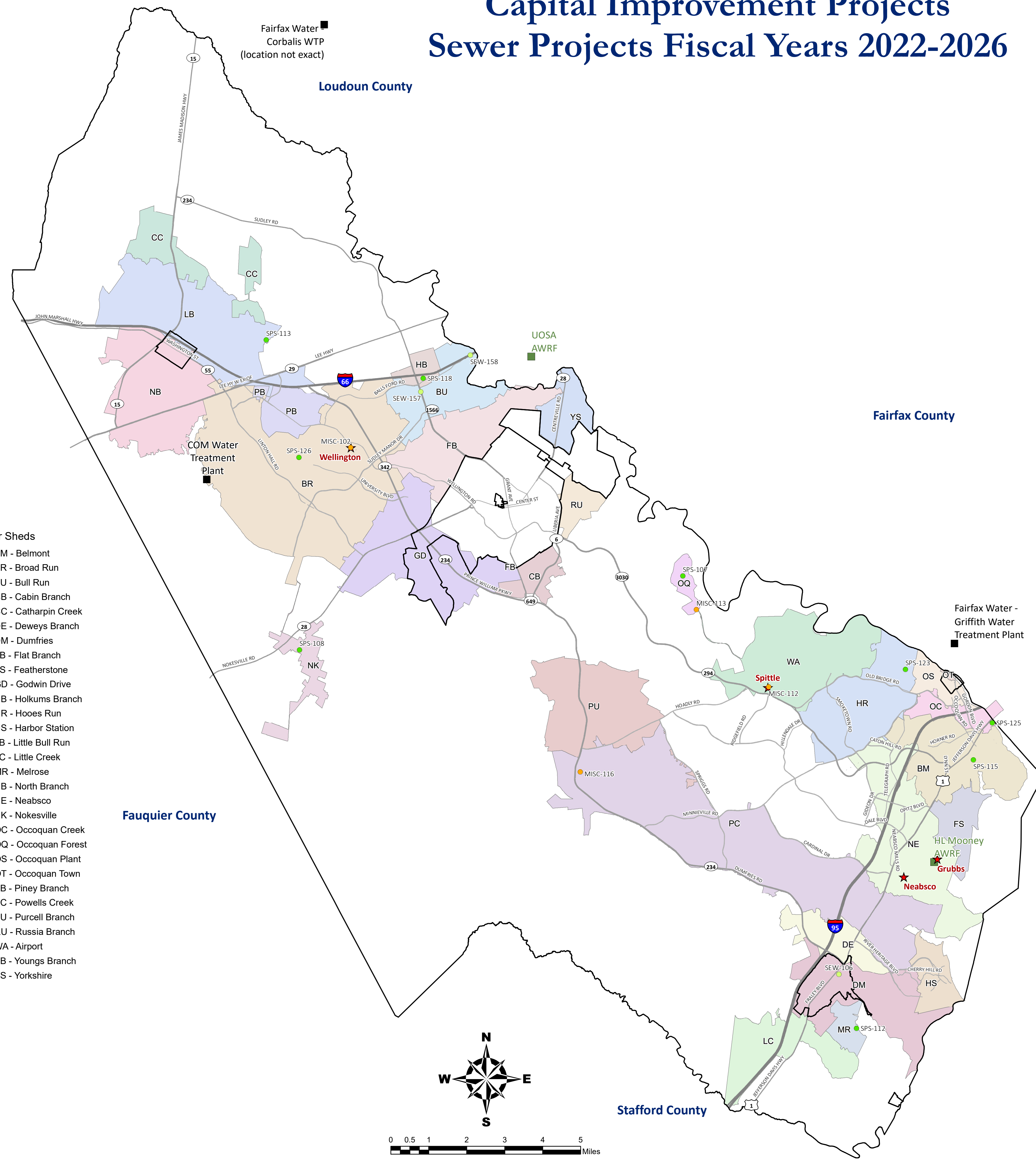
- Information Technology Projects (IT)**
- IT-105 JD Edwards Upgrade
  - IT-106 Cayenta - CIS
  - IT-107 Computerized Maintenance Management System (CMMS) Implementation
  - IT-110 Document Management System Implementation
  - IT-117 Vertical Asset Data Development
  - IT-118 System Integration
  - IT-121 Asset Management Analytics
  - IT-122 Project Management Information System (PMIS) Implementation
  - IT-125 IT Cybersecurity Program
  - IT-126 SCADA System Upgrade
  - IT-127 Web Content Management System Migration

- Miscellaneous Projects (MISC)**
- MISC-100 Water and Sewer Master Plan Utility Adjustments (MPUA)
  - MISC-101 PWCSA Water & Sewer Facility Security Enhancements
  - MISC-102 Wellington Road Operations Center Expansion
  - MISC-103 PWCSA Facilities Renewals and Upgrades
  - MISC-112 Spittle Office Building Addition
  - MISC-113 Occoquan Forest WWTP Closure & Site Restoration
  - MISC-114 System Wide Master Plan
  - MISC-115 County Wide Emergency Capital Work
  - MISC-116 English Gardens Property Building Addition & Improvements
  - MISC-117 Studies and PER's - Organization Wide
  - MISC-200 Vehicle Replacement Program
  - MISC-201 Mechanical Equipment Replacement Program
  - MISC-202 Computer and Other Replacement Program

- Sewage Pumping Station Projects (SPS)**
- SPS-100 Generator Replacement Program
  - SPS-107 Replace Occoquan Forest Sewage Pumping Stations, OQL36 & OQL37
  - SPS-108 Replace Nokesville Sewage Pumping Station, L20
  - SPS-112 Replace Graham Park Sewage Pumping Station, L13
  - SPS-113 Heritage Hunt Sewage Pumping Station, L52 Replacement and Force Main Extension
  - SPS-115 Belmont Sewage Pumping Station, L17 Replacement and Force Main Extension
  - SPS-118 Koon's Sewage Pumping Station, L28 Replacement
  - SPS-123 Spinnaker Court Sewage Pumping Station, L02 Replacement
  - SPS-125 Occoquan Creek Sewage Pumping Station, L04 Rehabilitation
  - SPS-126 Piney Branch Sewage Pumping Station, L26 Demolition and Gravity Sewer Extension

- Sewage Collection Projects (SEW)**
- SEW-106 Dumfries Force Main and Water Main Replacement
  - SEW-157 Sudley Road Sewer Main Replacement and Upgrade
  - SEW-158 I-66 Rest Area Sewer Main Replacement
  - SEW-200 Sewer Collection Rehabilitation & Replacement Program

- Water Reclamation Facilities Projects (WRF)**
- WRF-123 Ongoing Renewal and Replacement
  - WRF-126 Dynamic Hydraulic Model and Instrumentation
  - WRF-131 FBI and Solids Building Repairs and Modifications
  - WRF-134 Bioreactor Basin Improvements
  - WRF-138 Facility Wide Improvement - Design-Build Project
  - WRF-142 Replace/Upgrade Freight Elevators



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