Approved May 11, 2023

PRINCE WILLIAM County Government Center

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CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024 - 2028



May 11, 2023

CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024 – 2028



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CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024-2028

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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 2024 through 2028 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 FY24, proposed expenditure schedule and respective funding source. 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.

| Project Category | Description | |
|-------------------|---|--|
| Water Supply | Booster pumping stations and water supply projects are presented under this | |
| Projects (WSUP) | category. | |
| Water Storage | This project category includes tank design, construction, maintenance and | |
| Tank Projects | rehabilitation programs. Tanks maintain system pressures, provide fire and | |
| (WST) | reserve storage, and provide water during peak demands. | |
| Water | Water main projects are presented under this category. Transmission mains are | |
| Transmission | pipes sized 16-inches and larger to convey large volumes of water to booster | |
| Projects (WAT) | 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. | |
| Sewage Pumping | This category includes replacements, upgrades or modifications to existing | |
| Stations Projects | sewage pumping stations and associated force mains to meet future capacity | |
| (SPS) | 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). | |
| Sewage Collection | New sewer mains and replacement/upgrades to existing sewer mains that | |
| System Projects | convey sewage from commercial and residential customers to sewage pumping | |
| (SEW) | stations or water reclamation facilities are presented under this category. | |
| Water | Construction projects and facility modifications at the H.L. Mooney AWRF are | |
| Reclamation | presented in this category. | |
| Facility Projects | | |
| (WRF) | | |
| Miscellaneous | Projects that are not directly related to any of the previous six categories are | |
| Projects (MISC) | included in this section. Several projects include upgrades or expansions to office | |
| | complexes and maintenance facilities. | |
| Information | Projects that involve improvements to Information Technology applications, | |
| Technology (IT) | infrastructure, 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 | |
| Designal | and business analytics software improvements. | |
| Regional Utility | Major expansion or upgrades to regional treatment facilities at which the Service | |
| Projects (REG) | Authority has purchased capacity rights, such as UOSA's Water Reclamation | |
| | Facility and the City of Manassas' and/or Fairfax Water's Water Treatment Plants | |
| | 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. | |

Table 1. CIP Project Categories

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.

| Data Sheet Field | Description | |
|----------------------|--|--|
| Project Title | Provides a name for the project. | |
| Project CIP | Identifies the project category and "Engineering" project number(s). | |
| JDE Job Number(s) | The job cost coding to be utilized within JD Edwards tracking system. | |
| Location | A description of where the project will be in Prince William County. | |
| Pressure Zone | This identifies the Pressure Zone, Sewershed and Magisterial District | |
| Sewershed | where the project will occur. If the project is marked as "multiple", this | |
| Magisterial District | indicates that the project falls within more than one area of service. | |
| Project Description | The scope and/or justification of the project are identified. | |
| Project Benefit | The benefit of the project is described. | |
| Source Derivation | 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. | |
| Estimate By | Identifies the Division within the Service Authority and/or Engineering Consultant that prepared the cost estimate. | |
| | The annual estimated spending amounts and totals shown are in thousands of dollars (\$1,000's). | |
| Project Estimate | 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

| Data Sheet Field | Description | |
|--|--|--|
| Proposed Funding Sources | 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. | |
| Project Total | 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. | |
| Project MapMaps are produced from the Service Authority's Mapping Sy maps are annotated to detail information about the various Photographs are also used for many countywide type project | | |

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

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 EVALUATION AND SCHEDULING

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.

In support of the water and wastewater systems, Service Authority CIP projects are typically: capacity and transmission improvements, new facilities, and investment in replacement of expiring assets. Other CIP projects include support facilities and IT initiatives that are needed to meet strategic plan objectives.

Each CIP project requires a business case that documents its alignment with the Master Plan, the Strategic Plan Areas of Excellence, Strategic Objectives, and Strategic Goals. In addition, CIP projects are evaluated according to the CIP Project Evaluation Criteria shown in Table 3 below. The evaluation process involves discussion 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, resources, and other constraints to develop the CIP fiscal year schedule, as reflected in Section A (CIP Program Summary).

| Criteria | Criteria/Factors | Criteria Description and Objectives |
|----------|--|---|
| 1 | Physical Condition of Asset Physical Condition Assessment Operating/Maintenance History Probability/Consequence of Failure Age/Useful Life | 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. |
| 2 | Regulatory/Environmental Requirements • Permit/Regulatory Compliance • Water Quality • Health and Safety • Environmental Impact • Compliance Data Accuracy | 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. |
| 3 | Service Level/Reliability Requirements • Workforce Productivity • Service interruption History • Health and Safety Risks • Water and Air Quality • Water Main Breaks or Sewer Backups • Noise or Odor Complaints | 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. |
| 4 | Capacity/Technical Obsolescence Issues • Workforce Productivity • Probability of Failure • Single Point of Failure • Customer Service Needs • Capacity for New Customers • Future Support for Equipment/Systems | Meet current and future technical, capacity, operational, health, safety, security and level of service requirements. |
| 5 | Operations and Maintenance Issues Maintenance Requirements Breakdowns and Downtime Reactive Maintenance Equipment Obsolescence Manufacturer/Supplier Support Labor and Operating Cost Savings | Optimizing operational efficiency and reliability by replacing or enhancing the Service Authority's plant, water and sewer facilities and information systems. |

Table 3 - CIP Project Evaluation Criteria

FISCAL YEAR 2024 Summary of CIP Projects

| WATER SUPPLY PROJECTS | | |
|-----------------------|--|--|
| CIP Number | PROJECT NAME | PROJECT LOCATION |
| 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 |

The following is a list of Projects slated for study, design or construction during Fiscal Year 2024.

| WATER STORAGE PROJECTS | | |
|------------------------|---|------------------------------|
| CIP Number | PROJECT NAME | PROJECT LOCATION |
| WST-110 | Water Storage Tank Rehabilitation Program | 5895 Antioch Rd., Haymarket |
| WST-111 | Tank Re-Chlorination Program | 9933 Broadsword Dr., Bristow |

| WATER TRANSMISSION PROJECTS | | |
|-----------------------------|--|---|
| CIP Number | PROJECT NAME | PROJECT LOCATION |
| WAT-115 | Dawkins Branch Transmission Main | University Boulevard from Sudley Manor Drive to Edmonston Drive |
| 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-183 | Western Area Resiliency – Rt. 28 Bypass | Proposed Rt. 28 Bypass Road Project from Fairfax County to Godwin Drive |
| WAT-184 | Sudley Road Water Main – Phase 3 | Sudley Road from Godwin Drive to Thomas Drive |
| WAT-200 | Water Distribution Asset Replacement Program | County Wide |

| SEWAGE PUMPING STATION PROJECTS | | |
|---------------------------------|---|---|
| CIP Number | PROJECT NAME | PROJECT LOCATION |
| SPS-100 | Generator Replacement Program | County Wide |
| SPS-107 | Occoquan Forest Sewage Pumping Stations, OQL36 and OQL37 | 10820 Split Rail Dr. and 6204 Ramblewood Tr., Manassas |
| SPS-108 | Nokesville Sewage Pumping Station, L20 | 12829 Fitzwater Dr., Nokesville |
| SPS-112 | Graham Park Sewage Pumping Station, L13 | 3196 Shoreview Rd., Dumfries |
| SPS-113 | Heritage Hunt Sewage Pumping Station, L52 and Force Main | 6588 Alderwood Way, Gainesville |
| SPS-115 | Belmont Sewage Pumping Station, L17 and Force Main | 13760 Dabney Rd., Woodbridge |
| SPS-116 | Hornbaker Sewage Pumping Station, L06 and Force Main | 13010 Sport&Health Dr., Woodbridge |
| SPS-118 | Koon's Sewage Pumping Station, L28 | 10640 Automotive Dr., Manassas |
| SPS-123 | Spinnaker Court Sewage Pumping Station, L02 and Force Main | 2280 Spinnaker Ct., Woodbridge |
| SPS-125 | Occoquan Creek Sewage Pumping Station, L04 and Gravity Main | 13221 Marina Way, Woodbridge |
| SPS-134 | Hooes Run Sewage Pumping Station, L01 and Force Main | 2502 Old Bridge Rd., Woodbridge |
| SPS-135 | Yorkshire Sewage Pumping Station, L30 and Force Main | 7415 Lake Dr., Manassas |
| SPS-136 | Melrose Sewage Pumping Station, L10 | 3350 Melrose Ave., Triangle |
| SPS-138 | Powell's Creek Sewage Pumping Station, L08 and Force Main | 2750 Dettingen Pl., Woodbridge |
| SPS-142 | Featherstone Sewage Pumping Station, L16 and Force Main | 15023 Farm Creek Dr., Woodbridge |

| SEWAGE COLLECTION PROJECTS | | |
|----------------------------|---|---|
| CIP Number | PROJECT NAME | PROJECT LOCATION |
| 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 |

| WATER RECLAMATION FACILITY PROJECTS | | |
|-------------------------------------|---|------------------|
| CIP Number | PROJECT NAME | PROJECT LOCATION |
| WRF-123 | Ongoing Renewal and Replacement | 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 |

| MISCELLANEOUS PROJECTS | | |
|------------------------|---|-------------------------------------|
| CIP Number | PROJECT NAME | PROJECT LOCATION |
| MISC-100 | Water and Sewer Utility System Improvement Opportunity (USIO) | County Wide |
| MISC-101 | Water and Sewer Facility Security Enhancements | County Wide |
| MISC-102 | Wellington Road Operations Center Expansion | 8410 Virginia Meadows Dr., Manassas |
| MISC-103 | Facilities Renewals and Upgrades | County Wide |
| MISC-112 | Administrative Office Space Expansion | TBD |
| MISC-114 | System Wide Master Plan | County Wide |
| MISC-116 | English Gardens Property Building & Site Improvements | 14195 Dumfries Rd., Manassas |
| MISC-117 | Studies and PER's – Organization Wide | County Wide |
| MISC-118 | Nottoway Tank Site Development | 2011 Horner Rd., Woodbridge |
| MISC-200 | Vehicle Replacement Program | County Wide |
| MISC-201 | Mechanical Equipment Replacement Program | County Wide |
| MISC-202 | Computer and Other Replacement Program | County Wide |
| MISC-203 | Major Facility Rehabilitation Program | County Wide |

| | INFORMATION TECHNOLOGY PROJECTS | | | | | | | | | | | |
|------------|---|------------------|--|--|--|--|--|--|--|--|--|--|
| CIP Number | PROJECT NAME | PROJECT LOCATION | | | | | | | | | | |
| 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 | Network Security Upgrades | County Wide | | | | | | | | | | |
| IT-126 | SCADA System Upgrade | County Wide | | | | | | | | | | |
| IT-128 | Web Content Management System Migration | County Wide | | | | | | | | | | |

| REGIONAL UTILITY PROJECTS | | | | | | | | | |
|---------------------------|-------------------------|--------------------------------|--|--|--|--|--|--|--|
| CIP Number | PROJECT NAME | PROJECT LOCATION | | | | | | | |
| 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

| Acronym/Abbreviation List | | | | | | | |
|---------------------------|---|--|--|--|--|--|--|
| PWCSA | Prince William County Service Authority | | | | | | |
| PWC | Prince William County | | | | | | |
| SA | Service Authority | | | | | | |
| AWRF | Advanced Water Reclamation Facility | | | | | | |
| B&C | Brown and Caldwell (Engineers) | | | | | | |
| 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 | | | | | | |
| СОМ | 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 |
| 1&1 | Inflow and Infiltration |
| IT | Information Technology |
| LFC | Local Facilities Charge |
| Ln. | Lane |
| МСВ | 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 |
| 0&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.) | | | | | | | |
|-------|---|--|--|--|--|--|--|--|
| ΡZ | 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 | | | | | | | |
| USIO | Utility System Improvement Opportunity | | | | | | | |
| 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 | | | | | | | |
|----|------------------------|--|--|--|--|--|--|--|
| ВН | Bull Run Mountain High | | | | | | | |
| BW | Bull Run Mountain Low | | | | | | | |
| DT | Dumfries | | | | | | | |
| EG | Evergreen | | | | | | | |
| FW | Fairfax Water | | | | | | | |
| GM | Greater Manassas | | | | | | | |
| GW | Gainesville | | | | | | | |
| НМ | Haymarket | | | | | | | |
| НО | 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) | | | | | | | | |
| РС | Powell's Creek Reduced (Dumfries) | | | | | | | | |
| | | | | | | | | | |

| | Sewersheds |
|----|-----------------|
| BM | Belmont |
| BR | Broad Run |
| BU | Bull Run |
| СВ | Cabin Branch |
| СС | 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 | Melrose |
| NB | North Branch |
| NE | Neabsco |
| NK | Nokesville |
| ос | Occoquan Creek |
| OQ | Occoquan Forest |
| OS | Occoquan Plant |
| ОТ | Occoquan Town |
| РВ | Piney Branch |
| PC | Powells Creek |
| PU | Purcell Branch |
| RU | Russia Branch |
| WA | Airport |
| YS | Yorkshire |

| | Magisterial Districts | | | | | | | |
|----|-----------------------|--|--|--|--|--|--|--|
| BR | Brentsville | | | | | | | |
| со | Coles | | | | | | | |
| GN | Gainesville | | | | | | | |
| NE | Neabsco | | | | | | | |
| ос | Occoquan | | | | | | | |
| PO | Potomac | | | | | | | |
| WB | Woodbridge | | | | | | | |

CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024 - 2028





SECTION A

PROGRAM SUMMARY

| PRINCE WILLIAM COUNTY SERVICE AUTHORITY CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028 | | | | | | | | | | | |
|--|--------------------|--------------------|-------------------|-------------------|-------------------|--------------------|---------------------|--------------------|--|--|--|
| | SOURCE SUMMARY | | | 24 2020 | | | | | | | |
| | TOTAL EXPENDITURES | | | SPENDING | SCHEDUL | E (\$1,000's) | | | | | |
| | (\$1,000's) | PRE FY-24 | FY-24 | FY-25 | FY-26 | FY-27 | FY-28 | BEYOND FY-28 | | | |
| WATER SUPPLY PROJECTS (WSUP) | | | • | • | | • | | • | | | |
| Exp Fund 002 | 14819 | 3618 | 3303 | 4082 | 3207 | 305 | 305 | 0 | | | |
| Fund 003 Rep Fund 004 | | 0 7631 | 0 7233 | 0 6772 | 0 4559 | 0 1345 | 0 1345 | 0 0 | | | |
| Other | · 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| TOTAL WATER STORAGE PROJECTS (WST) | | 11249 | 10535 | 10853 | 7765 | 1650 | 1650 | 0 | | | |
| Exp Fund 002 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Fund 003 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Rep Fund 004 Other | | 0 0 | 1355 0 | 2950 0 | 2950 0 | 2950 0 | 1578 0 | 0 0 | | | |
| TOTAL | | 0 | 1355 | 2950 | 2950 | 2950 | 1578 | 0 | | | |
| WATER TRANSMISSION PROJECTS (WAT) | | | | | | | | | | | |
| Exp Fund 002 Fund 003 | | 13185 0 | 2246 0 | 1650 0 | 3750 0 | 7170 0 | 9625 0 | 4205 0 | | | |
| Rep Fund 004 | 65758 | 13079 | 5546 | 5150 | 8658 | 13942 | 15625 | 3758 | | | |
| Other TOTAL | | 82 26346 | 0 7792 | 0 6800 | 0 12408 | 38 21150 | 250 25500 | 156 8118 | | | |
| SEWAGE PUMPING STATION PROJECTS (SPS) | | 20340 | 1192 | 0800 | 12406 | 21150 | 25500 | 0110 | | | |
| Exp Fund 002 | | 6770 | 9947 | 9976 | 14999 | 18865 | 13409 | 15710 | | | |
| Fund 003 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Rep Fund 004 Other | | 22477 268 | 15321 0 | 25383 125 | 32738 250 | 39641 273 | 30095 0 | 25815 0 | | | |
| TOTAL | 282060 | 29514 | 25268 | 35484 | 47987 | 58778 | 43504 | 41525 | | | |
| SEWER COLLECTION PROJECTS (SEW) | | 2474 | 520 | - | | - | <u>^</u> | <u>^</u> | | | |
| Exp Fund 002 Fund 003 | | 3471 0 | 539 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | | | |
| Rep Fund 004 | 10911 | 5473 | 1477 | 1161 | 1600 | 600 | 600 | 0 | | | |
| Other | | 0 8944 | 0 2015 | 0 1161 | 0 1600 | 0 600 | 0 600 | 0 | | | |
| WATER RECLAMATION FACILITY PROJECTS (WRF) | | 0044 | 2015 | | 1000 | | | | | | |
| Exp Fund 002 | | 1693 | 360 | 434 | 825 | 855 | 465 | 1860 | | | |
| Fund 003 Rep Fund 004 | | 4825 15208 | 5100 12740 | 14445 34717 | 14756 36355 | 13800 34195 | 13800 33285 | 0 4340 | | | |
| Other | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| TOTAL | | 21726 | 18200 | 49595 | 51936 | 48850 | 47550 | 6200 | | | |
| MISCELLANEOUS PROJECTS (MISC) Exp Fund 002 | | 1434 | 2598 | 4925 | 8650 | 10680 | 18927 | 4550 | | | |
| Fund 002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Rep Fund 004 | | 993 | 9851 | 13986 | 17836 | 18769 | 24972 | 4750 | | | |
| Other TOTAL | | 0 2427 | 0 12448 | 0 18911 | 0 26486 | 0 29449 | 0 43899 | 0 9300 | | | |
| INFORMATION TECHNOLOGY (IT) | | | | | | | | | | | |
| Exp Fund 002 | | 442 | 53 | 143 | 38 | 19 | 0 | 0 | | | |
| Fund 003 Rep Fund 004 | | 0 7130 | 0 9235 | 0 10296 | 0 11902 | 0 9394 | 0 0 | 0 0 | | | |
| Other | · 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| TOTAL REGIONAL UTILITY PROJECTS (REG) | | 7572 | 9287 | 10438 | 11940 | 9413 | 0 | 0 | | | |
| Exp Fund 002 | | 1985 | 3770 | 3770 | 0 | 0 | 0 | 0 | | | |
| Fund 003 | 84200 | 0 | 0 | 3100 | 7900 | 24400 | 24400 | 24400 | | | |
| Rep Fund 004 Other | | 4632 0 | 8796 0 | 8796 0 | 0 0 | 0 0 | 0 0 | 0 0 | | | |
| TOTAL | | 6617 | 12566 | 15666 | 7900 | 24400 | 24400 | 24400 | | | |
| TOTAL EXPANSION FUND 002 | 218809 | 32598 | 22814 | 24978 | 31468 | 37894 | 42731 | 26325 | | | |
| TOTAL COMMITMENT FUND 003 | | 4825 | 5100 | 17545 | 22656 | 38200 | 38200 | 24400 | | | |
| TOTAL REPLACEMENT FUND 004 | | 76623 | 71552 | 109210 | 116598 | 120836 | 107500 | 38662 | | | |
| TOTAL DEVELOPER/OTHER FUND | | 350 | 0 | 125 | 250 | 310 | 250 | 156 | | | |
| GRAND TOTAL - ALL CIP PROJECTS | 1012155 | 114395 | 99466 | 151858 | 170972 | 197240 | 188681 | 89543 | | | |
| | | | | | | | | | | | |

| | PRINCE WILLIAM COUNTY SERVICE AUTHORITY | | | | | | | | | | | | |
|------------|---|---------------------------|----------|-------|-----------|-------|-------------------|-------|-------|-------|-------|-------|-----------------|
| | CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028 | | | | | | | | | | | | |
| | WATER SUPPLY PROJECTS | | | | | | | | | | | | |
| | | ESTIMATED PROJECT COST | | FUNDI | NG SOURCI | ES | SPENDING SCHEDULE | | | | | | |
| CIP Number | PROJECT NAME | (\$1,000's) | E 002 | 003 | R 004 | OTHER | PRE FY-24 | FY-24 | FY-25 | FY-26 | FY-27 | FY-28 | BEYOND FY-28 |
| WSUP-103 | Water Meter Vault Improvements | 675 | 0 | 0 | 675 | 0 | 0 | 175 | 125 | 125 | 125 | 125 | 0 |
| WSUP-105 | Montclair/Four Seasons Water System Improvements | 15230 | 5331 | 0 | 9900 | 0 | 6430 | 7800 | 1000 | 0 | 0 | 0 | 0 |
| WSUP-111 | Bull Run Mountain Well Upgrades | 2826 | 0 | 0 | 2826 | 0 | 1739 | 200 | 650 | 237 | 0 | 0 | 0 |
| WSUP-112 | Manassas Southside Booster Pumping Station, F18 | 1600 | 800 | 0 | 800 | 0 | 1565 | 35 | 0 | 0 | 0 | 0 | 0 |
| WSUP-114 | Capital Meter Program | 7625 | 1525 | 0 | 6100 | 0 | 0 | 1525 | 1525 | 1525 | 1525 | 1525 | 0 |
| WSUP-116 | Unity Reed Booster Pumping Station, F14 and Discharge Main | 14326 | 7163 | 0 | 7163 | 0 | 1170 | 500 | 6853 | 5803 | 0 | 0 | 0 |
| WSUP-117 | Eastern Area Pressure Reducing Valves | 1420 | 0 | 0 | 1420 | 0 | 345 | 300 | 700 | 75 | 0 | 0 | 0 |
| | TOTAL: WATER SUPPLY PROJECTS | 43702 | 14819 | 0 | 28884 | 0 | 11249 | 10535 | 10853 | 7765 | 1650 | 1650 | 0 |

| | PRINCE WILLIAM COUNTY SERVICE AUTHORITY CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028 | | | | | | | | | | | | |
|---|--|-------------|----------|-----|----------|-------|--------------|-------|------|-------|-------|-------|-----------------|
| | WATER STORAGE PROJECTS | | | | | | | | | | | | |
| ESTIMATED PROJECT COST FUNDING SOURCES SPENDING SCHEDULE | | | | | | | | | | | | | |
| CIP Number | PROJECT NAME | (\$1,000's) | E 002 | 003 | R 004 | OTHER | PRE FY-24 | FY-24 | FY25 | FY-26 | FY-27 | FY-28 | BEYOND FY-28 |
| · | | | | | | | | | | | | | |
| WST-110 | Water Storage Tank Rehabilitation Program | 6638 | 0 | 0 | 6638 | 0 | 0 | 40 | 1750 | 1750 | 1750 | 1348 | 0 |
| WST-111 | Tank Re-Chlorination Program | 5145 | 0 | 0 | 5145 | 0 | 0 | 1315 | 1200 | 1200 | 1200 | 230 | 0 |
| | TOTAL: WATER STORAGE PROJECTS | 11783 | 0 | 0 | 11783 | 0 | 0 | 1355 | 2950 | 2950 | 2950 | 1578 | 0 |

| | PRINCE WILLIAM COUNTY SERVICE AUTHORITY CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028 | | | | | | | | | | | | | | |
|-----|--|--|---------------------------|----------|-----|----------|-------------------|--------------|-------|------|-------|-------|-------|-----------------|--|
| | WATER TRANSMISSION PROJECTS | | | | | | | | | | | | | | |
| | | | ESTIMATED PROJECT COST | | | | SPENDING SCHEDULE | | | | | | | | |
| СІР | Number | PROJECT NAME | (\$1,000's) | E 002 | 003 | R 004 | OTHER | PRE FY-24 | FY-24 | FY25 | FY-26 | FY-27 | FY-28 | BEYOND FY-28 | |
| WA | T-115 | Dawkins Branch Transmission Main | 7766 | 4660 | 0 | 3106 | 0 | 529 | 1000 | 1500 | 0 | 0 | 2500 | 2237 | |
| WA | T-122 | Gainesville to Manassas South Connector | 5254 | 2364 | 0 | 2364 | 525 | 820 | 0 | 0 | 0 | 378 | 2500 | 1556 | |
| WA | T-138 | Possum Point Road Water Main - Phase 2 | 4680 | 0 | 0 | 4680 | 0 | 0 | 0 | 0 | 408 | 2272 | 2000 | 0 | |
| WA | T-181 | Route 1 Transmission Main - Phase 1 | 13193 | 6597 | 0 | 6597 | 0 | 12882 | 311 | 0 | 0 | 0 | 0 | 0 | |
| WA | T-182 | Route 1 Transmission Main - Phase 2 | 13416 | 6708 | 0 | 6708 | 0 | 11935 | 1481 | 0 | 0 | 0 | 0 | 0 | |
| WA | T-183 | Western Area Resiliency - Rt. 28 Bypass | 40825 | 20413 | 0 | 20413 | 0 | 0 | 500 | 500 | 7500 | 14000 | 14000 | 4325 | |
| WA | T-184 | Sudley Road Water Main - Phase 3 | 2180 | 1090 | 0 | 1090 | 0 | 180 | 1000 | 1000 | 0 | 0 | 0 | 0 | |
| WA | T-200 | Water Distribution Asset Replacement Program | 17500 | 0 | 0 | 17500 | 0 | 0 | 3500 | 3500 | 3500 | 3500 | 3500 | 0 | |
| WA | T-201 | Bull Run Mountain Distribution System Improvements | 3300 | 0 | 0 | 3300 | 0 | 0 | 0 | 300 | 1000 | 1000 | 1000 | 0 | |
| | | TOTAL: WATER TRANSMISSION PROJECTS | 108114 | 41831 | 0 | 65758 | 525 | 26346 | 7792 | 6800 | 12408 | 21150 | 25500 | 8118 | |

| | PRINCE WILLIAM COUNTY SERVICE AUTHORITY | | | | | | | | | | | | |
|------------|--|---------------------------|--------|---------|-----------|------------|-------|-------|-------|-----------|-------|-------|--------|
| | CAPITAL | IMPROVEMEN | T PROG | RAM, FI | SCAL YE | ARS 2024-2 | 028 | | | | | | |
| | | SEWAGE PU | MPING | STATIO | N PROJE | стѕ | | | | | | | |
| | | ESTIMATED PROJECT COST | | | | | | | CDE | | | | |
| | | PROJECT COST | E | FUNDI | NG SOURCE | | PRE | | SPEI | NDING SCH | | | BEYOND |
| CIP Number | PROJECT NAME | (\$1,000's) | 002 | 003 | 004 | OTHER | FY-24 | FY-24 | FY25 | FY-26 | FY-27 | FY-28 | FY-28 |
| SPS-100 | Generator Replacement Program | 4370 | 0 | 0 | 4370 | 0 | 0 | 340 | 820 | 1070 | 1070 | 1070 | 0 |
| SPS-107 | Occoquan Forest Sewage Pumping Stations, OQL36 & OQL37 | 6494 | 0 | 0 | 6494 | 0 | 6022 | 472 | 0 | 0 | 0 | 0 | 0 |
| SPS-108 | Nokesville Sewage Pumping Station, L20 | 2841 | 0 | 0 | 2841 | 0 | 2629 | 212 | 0 | 0 | 0 | 0 | 0 |
| SPS-112 | Graham Park Sewage Pumping Station, L13 | 4829 | 0 | 0 | 4829 | 0 | 4767 | 62 | 0 | 0 | 0 | 0 | 0 |
| SPS-113 | Heritage Hunt Sewage Pumping Station, L52 and Force Main | 43991 | 21996 | 0 | 21996 | 0 | 10715 | 17000 | 10000 | 6276 | 0 | 0 | 0 |
| SPS-115 | Belmont Sewage Pumping Station, L17 and Force Main | 16533 | 4960 | 0 | 11573 | 0 | 944 | 1000 | 800 | 2500 | 6000 | 5289 | 0 |
| SPS-116 | Hornbaker Sewage Pumping Station, L06 and Force Main | 3966 | 0 | 0 | 3966 | 0 | 200 | 513 | 3000 | 253 | 0 | 0 | 0 |
| SPS-118 | Koon's Sewage Pumping Station, L28 | 5324 | 0 | 0 | 5324 | 0 | 586 | 1000 | 2238 | 1500 | 0 | 0 | 0 |
| SPS-123 | Spinnaker Court Sewage Pumping Station, L02 and Force Main | 4539 | 0 | 0 | 4539 | 0 | 609 | 1000 | 1430 | 1500 | 0 | 0 | 0 |
| SPS-125 | Occoquan Creek Sewage Pumping Station, L04 and Gravity Main | 15389 | 3078 | 0 | 12311 | 0 | 505 | 600 | 5745 | 6000 | 2539 | 0 | 0 |
| SPS-126 | Piney Branch Sewage Pumping Station, L26 and Gravity Main | 3660 | 2196 | 0 | 549 | 915 | 1070 | 0 | 500 | 1000 | 1090 | 0 | 0 |
| SPS-134 | Hooes Run Sewage Pumping Station, L01 and Force Main | 27055 | 9469 | 0 | 17586 | 0 | 213 | 600 | 3234 | 12000 | 11008 | 0 | 0 |
| SPS-135 | Yorkshire Sewage Pumping Station, L30 and Force Main | 8506 | 3828 | 0 | 4678 | 0 | 210 | 761 | 2500 | 2535 | 2500 | 0 | 0 |
| SPS-136 | Melrose Sewage Pumping Station, L10 | 8269 | 0 | 0 | 8269 | 0 | 208 | 708 | 2000 | 3353 | 2000 | 0 | 0 |
| SPS-137 | Dawson Landing Sewage Pumping Station, L51 | 6794 | 0 | 0 | 6794 | 0 | 206 | 0 | 517 | 1000 | 3071 | 2000 | 0 |
| SPS-138 | Powell's Creek Sewage Pumping Station, L08 and Force Main | 20000 | 10000 | 0 | 10000 | 0 | 155 | 500 | 700 | 5000 | 8000 | 5645 | 0 |
| SPS-139 | North Fork Sewage Pumping Station, L39 | 14000 | 6300 | 0 | 7700 | 0 | 131 | 0 | 400 | 600 | 4000 | 6500 | 2369 |
| SPS-140 | Occoquan Plant Sewage Pumping Station, L14 | 18500 | 3700 | 0 | 14800 | 0 | 133 | 0 | 400 | 600 | 5000 | 7500 | 4867 |

| | PRINCE WILLIAM COUNTY SERVICE AUTHORITY CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028 | | | | | | | | | | | | |
|------------|--|---------------------------|----------|-------|-----------|-------|--------------|-------|-------|-----------|--------|-------|-----------------|
| | SEWAGE PUMPING STATION PROJECTS | | | | | | | | | | | | |
| | | ESTIMATED PROJECT COST | | FUNDI | NG SOURCE | S | | | SPEN | IDING SCH | IEDULE | | |
| CIP Number | PROJECT NAME | (\$1,000's) | E 002 | 003 | R 004 | OTHER | PRE FY-24 | FY-24 | FY25 | FY-26 | FY-27 | FY-28 | BEYOND FY-28 |
| SPS-141 | Dewey's Creek Sewage Pumping Station, L09 | 20000 | 3000 | 0 | 17000 | 0 | 136 | 0 | 400 | 600 | 5000 | 8000 | 5864 |
| SPS-142 | Featherstone Sewage Pumping Station, L16 and Force Main | 47000 | 21150 | 0 | 25850 | 0 | 75 | 500 | 800 | 2200 | 7500 | 7500 | 28425 |
| | TOTAL: SEWAGE PUMPING STATION PROJECTS | 282060 | 89676 | 0 | 191469 | 915 | 29514 | 25268 | 35484 | 47987 | 58778 | 43504 | 41525 |

| | PRINCE WILLIAM COUNTY SERVICE AUTHORITY | | | | | | | | | | | | |
|------------|---|---------------------------|------|-------|-----------|-------|-------|-------|------|-----------|--------|-------|--------|
| | CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028 | | | | | | | | | | | | |
| | SEWER COLLECTION PROJECTS | | | | | | | | | | | | |
| | | ESTIMATED PROJECT COST | | FUNDI | NG SOURCE | ES | | | SPEN | NDING SCH | IEDULE | | |
| | | | E | | R | | PRE | | | | | | BEYOND |
| CIP Number | r PROJECT NAME | (\$1,000's) | 002 | 003 | 004 | OTHER | FY-24 | FY-24 | FY25 | FY-26 | FY-27 | FY-28 | FY-28 |
| | | | | | | | | | | | | | |
| SEW-106 | Dumfries Force Main and Water Main | 4674 | 0 | 0 | 4674 | 0 | 4251 | 423 | 0 | 0 | 0 | 0 | 0 |
| SEW-157 | Sudley Road Sewer Main | 5346 | 4010 | 0 | 1337 | 0 | 4628 | 718 | 0 | 0 | 0 | 0 | 0 |
| SEW-158 | I-66 Rest Area Sewer Main | 1900 | 0 | 0 | 1900 | 0 | 65 | 274 | 561 | 1000 | 0 | 0 | 0 |
| SEW-200 | Sewer Collection Rehabilitation & Replacement Program | 3000 | 0 | 0 | 3000 | 0 | 0 | 600 | 600 | 600 | 600 | 600 | 0 |
| | TOTAL: SEWER COLLECTION PROJECTS | 14920 | 4010 | 0 | 10911 | 0 | 8944 | 2015 | 1161 | 1600 | 600 | 600 | 0 |

| | PRINCE WILLIAM COUNTY SERVICE AUTHORITY | | | | | | | | | | | | |
|---------------|--|---------------------------|----------|---------|-----------|-------|--------------|-------|-------|-----------|--------|-------|-----------------|
| | CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024 - 2028 | | | | | | | | | | | | |
| | | WATER RECLA | ΑΜΑΤΙΟ | N FACIL | ITY PRO | IECTS | | | | | | | |
| | | ESTIMATED PROJECT COST | | FUNDI | NG SOURCI | ES | | | SPEN | NDING SCH | IEDULE | | |
| CIP Number | PROJECT NAME | (\$1,000's) | E 002 | 003 | R 004 | OTHER | PRE FY-24 | FY-24 | FY25 | FY-26 | FY-27 | FY-28 | BEYOND FY-28 |
| | | | | | | | | | | | | | |
| WRF-123 | Ongoing Renewal and Replacement | 9642 | 2893 | 0 | 6749 | 0 | 1442 | 400 | 400 | 400 | 400 | 400 | 6200 |
| WRF-126 | Dynamic Hydraulic Model and Instrumentation | 1265 | 380 | 0 | 886 | 0 | 665 | 0 | 100 | 200 | 300 | 0 | 0 |
| WRF-131 | FBI and Solids Building Repairs and Modifications | 6894 | 2068 | 0 | 4826 | 0 | 1864 | 480 | 600 | 1650 | 1650 | 650 | 0 |
| WRF-134 | Bioreactor Basin Improvements | 3837 | 1151 | 0 | 2686 | 0 | 1672 | 320 | 345 | 500 | 500 | 500 | 0 |
| WRF-138 | Facility Wide Improvements - Design-Build Project * | 222419 | 0 | 66726 | 155693 | 0 | 16083 | 17000 | 48150 | 49186 | 46000 | 46000 | 0 |
| | TOTAL: WATER RECLAMATION FACILITY PROJECTS * Partially Debt Funded Project (\$100M) | 244057 | 6491 | 66726 | 170840 | 0 | 21726 | 18200 | 49595 | 51936 | 48850 | 47550 | 6200 |

| | PRINCE WILLIAM COUNTY SERVICE AUTHORITY | | | | | | | | | | | | |
|---------------|--|--------------|----------|---------|----------|-------------------|--------------|-------|-------|-------|-------|-------|-----------------|
| | CAPITAL | IMPROVEMEN | | | | ARS 2024 - 2 | 2028 | | | | | | |
| | | ESTIMATED | ELLANEO | OUS PRO | JECTS | | r | | | | | | |
| | | PROJECT COST | | | | SPENDING SCHEDULE | | | | | | | |
| CIP Number | PROJECT NAME | (\$1,000's) | E 002 | 003 | R 004 | OTHER | PRE FY-24 | FY-24 | FY25 | FY-26 | FY-27 | FY-28 | BEYOND FY-28 |
| MISC-100 | Water and Sewer Utility System Improvement Opportunity (USIO) | 7840 | 3920 | 0 | 3920 | 0 | 0 | 1440 | 1600 | 1600 | 1600 | 1600 | 0 |
| MISC-101 | Water & Sewer Facility Security Enhancements | 2275 | 0 | 0 | 2275 | 0 | 0 | 585 | 410 | 420 | 450 | 410 | 0 |
| MISC-102 | Wellington Road Operations Center Expansion | 16662 | 8331 | 0 | 8331 | 0 | 629 | 1500 | 4500 | 6500 | 3533 | 0 | 0 |
| MISC-103 | Facility Renewals and Upgrades | 1359 | 0 | 0 | 1359 | 0 | 159 | 200 | 200 | 200 | 200 | 200 | 200 |
| MISC-112 | Administrative Office Space Expansion | 20786 | 10393 | 0 | 10393 | 0 | 951 | 135 | 600 | 500 | 3500 | 6000 | 9100 |
| MISC-114 | System Wide Master Plan | 1035 | 1035 | 0 | 0 | 0 | 600 | 185 | 0 | 0 | 0 | 250 | 0 |
| MISC-116 | English Gardens Property Building & Site Improvements | 51869 | 25935 | 0 | 25935 | 0 | 88 | 850 | 1850 | 8000 | 12027 | 29054 | 0 |
| MISC-117 | Studies and PER's - Organization Wide | 3500 | 1750 | 0 | 1750 | 0 | 0 | 700 | 700 | 700 | 700 | 700 | 0 |
| MISC-118 | Nottoway Tank Site Development | 800 | 400 | 0 | 400 | 0 | 0 | 200 | 600 | 0 | 0 | 0 | 0 |
| MISC-200 | Vehicle Replacement Program | 7523 | 0 | 0 | 7523 | 0 | 0 | 1983 | 1075 | 1400 | 1400 | 1665 | 0 |
| MISC-201 | Mechanical Equipment Replacement Program | 13411 | 0 | 0 | 13411 | 0 | 0 | 2210 | 3176 | 2866 | 2489 | 2670 | 0 |
| MISC-202 | Computer and Other Replacement Program | 6100 | 0 | 0 | 6100 | 0 | 0 | 1200 | 1200 | 1550 | 1550 | 600 | 0 |
| MISC-203 | Major Facility Rehabilitation Program | 9760 | 0 | 0 | 9760 | 0 | 0 | 1260 | 3000 | 2750 | 2000 | 750 | 0 |
| | TOTAL: MISCELLANEOUS PROJECTS | 142920 | 51764 | 0 | 91157 | 0 | 2427 | 12448 | 18911 | 26486 | 29449 | 43899 | 9300 |

| | PRINCE WILLIAM COUNTY SERVICE AUTHORITY | | | | | | | | | | | | | |
|-----|---|---|---------------------------|-----------------|-----|----------|-------|--------------|-------|-----------|-------|-------|-------|-----------------|
| | CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024 - 2028 INFORMATION TECHNOLOGY PROJECTS | | | | | | | | | | | | | |
| | | | ESTIMATED PROJECT COST | FUNDING SOURCES | | | | | SPEN | IDING SCH | EDULE | | | |
| СІР | Number | PROJECT NAME | (\$1,000's) | E 002 | 003 | R 004 | OTHER | PRE FY-24 | FY-24 | FY25 | FY-26 | FY-27 | FY-28 | BEYOND FY-28 |
| I | T-105 | JD Edwards Upgrade | 1329 | 0 | 0 | 1329 | 0 | 829 | 0 | 250 | 250 | 0 | 0 | 0 |
| I | T-106 | Cayenta - CIS | 1102 | 0 | 0 | 1102 | 0 | 402 | 250 | 0 | 250 | 200 | 0 | 0 |
| | T-107 | Computerized Maintenance Management System (CMMS) Implementation | 3287 | 0 | 0 | 3287 | 0 | 532 | 1450 | 560 | 620 | 125 | 0 | 0 |
| I | T-110 | Document Management System Implementation | 2580 | 0 | 0 | 2580 | 0 | 200 | 1560 | 420 | 275 | 125 | 0 | 0 |
| | T-117 | Vertical Asset Data Development | 663 | 0 | 0 | 663 | 0 | 248 | 365 | 50 | 0 | 0 | 0 | 0 |
| I | T-118 | System Integration | 1675 | 0 | 0 | 1675 | 0 | 1338 | 75 | 150 | 75 | 37 | 0 | 0 |
| | T-121 | Asset Management Analytics | 1212 | 0 | 0 | 1212 | 0 | 222 | 215 | 600 | 175 | 0 | 0 | 0 |
| | T-122 | Project Management Information System (PMIS) Implementation | 2315 | 695 | 0 | 1621 | 0 | 1474 | 175 | 475 | 127 | 64 | 0 | 0 |
| | T-125 | Network Security Upgrades | 500 | 0 | 0 | 500 | 0 | 0 | 150 | 150 | 100 | 100 | 0 | 0 |
| I | T-126 | SCADA System Upgrade | 22612 | 0 | 0 | 22612 | 0 | 2161 | 4838 | 5283 | 5068 | 5262 | 0 | 0 |
| I | T-128 | Web Content Management System Migration | 375 | 0 | 0 | 375 | 0 | 166 | 209 | 0 | 0 | 0 | 0 | 0 |
| I | T-129 | Enterprise Resource Planning | 11000 | 0 | 0 | 11000 | 0 | 0 | 0 | 2500 | 5000 | 3500 | 0 | 0 |
| | | TOTAL: INFORMATION AND TECHNOLOGY PROJECTS | 48650 | 695 | 0 | 47956 | 0 | 7572 | 9287 | 10438 | 11940 | 9413 | 0 | 0 |

| | PRINCE WILLIAM COUNTY SERVICE AUTHORITY CAPITAL IMPROVEMENT PROGRAM, FISCAL YEARS 2024-2028 | | | | | | | | | | | | |
|-----------|--|---------------------------|----------|-------|-----------|-------|--------------|-------|-------|-----------|--------|-------|-----------------|
| | REGIONAL UTILITY PROJECTS | | | | | | | | | | | | |
| | | ESTIMATED PROJECT COST | | FUNDI | NG SOURCE | ES | | | SPEN | NDING SCH | IEDULE | | |
| CIP Numbe | r PROJECT NAME | (\$1,000's) | E 002 | 003 | R 004 | OTHER | PRE FY-24 | FY-24 | FY25 | FY-26 | FY-27 | FY-28 | BEYOND FY-28 |
| REG-1 | Occoquan River Crossing | 31749 | 9525 | 0 | 22224 | 0 | 6617 | 12566 | 12566 | 0 | 0 | 0 | 0 |
| REG-2 | UOSA Expansion - Project 60 | 84200 | 0 | 84200 | 0 | 0 | 0 | 0 | 3100 | 7900 | 24400 | 24400 | 24400 |
| | TOTAL: REGIONAL UTILITY PROJECTS | 115949 | 9525 | 84200 | 22224 | 0 | 6617 | 12566 | 15666 | 7900 | 24400 | 24400 | 24400 |

CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024 - 2028





SECTION B

PROJECT DATA SHEETS



WATER SUPPLY PROJECTS

REEDE



PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|----------------------------------|----------------------|--|
| Project Name: | Water Meter Vault Improvements | Project Description: | Repair and replacement of commercial meter vaults county-wide as needed. |
| CIP Number: | WSUP-103 | Project Benefit: | Aging meter vaults pose a safety issue for Field Services personnel servicing the |
| JDE Number(s): | 24WCWV0001, 24WWLZ0001 | - | respective meters. Maintenance of these facilities will provide a safe environment |
| Location: | Commercial Meter Vault Locations | | for the repair, replacement, and necessary customer service. |
| Pressure Zone: | Multiple | Source Derivation: | Operations and Maintenance Division; Finance – Field Services; Managed by |
| Sewershed: | Multiple | | Finance – Field Services. |
| Magisterial District: | Multiple | | |
| Project Estimate: | Order of Magnitude | | |
| Estimate By: | Finance - Field Services | | |
| | | | |
| | | | |

PROJECT PICTURE



PRE-FY24 POST- FY28 FY24 FY25 FY27 FY28 TOTAL FY26 0 175 125 125 125 125 0 675

PROJECT FUNDING

| Proposed Fu | nding Sources |
|--|---------------|
| Exp. Fund (02) – Availability Fees | - |
| Commit. Fund (03) – Availability Fees | - |
| Repl. Fund (04) – User Rates | 100% |
| Other Contrib. – Development Contributions | - |
| PROJECT TOTAL | 100% |

| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|---|----------------------|--|
| Project Name: | Montclair / Four Seasons Water System Improvements | Project Description: | Construction of a new 3 MGD booster pumping station expandable to 8 MGD with associated power and control accessories, including an emergency generator. This |
| CIP Number: | WSUP-105 | | project also includes new 18-inch and 24-inch supply lines which shall cross Dewey's Creek and I-95, and a new 16-inch discharge main from the new booster |
| JDE Number(s): | 22WMOM0801, 24WMOM0801 | | pumping station to Old Stage Road. |
| Location: | 17361 Four Seasons Dr., Dumfries | Project Benefit: | This project shall provide auxiliary pumping capacity to the Cow Branch Booster |
| Pressure Zone: | MO – Montclair | | Pumping Station, improve system reliability, as well as accommodate the |
| Sewershed: | DM – Dumfries | | anticipated build-out demands in the Montclair and Oak Ridge pressure zones. This project shall also enable the Old Stage Booster Pumping Station, which is |
| Magisterial District: | PO – Potomac | | outdated with limited capacity, to be removed from service. |
| Project Estimate: | Contract Award | Source Derivation: | WRA East End Water System Technical Memorandum, 2001; Hazen and Sawyer |
| Estimate By: | Engineering and Planning Division | | PER, 2016; ACE D/B Team, 2021; Managed by the Project Management Office. |
| | | | |

PROJECT FUNDING



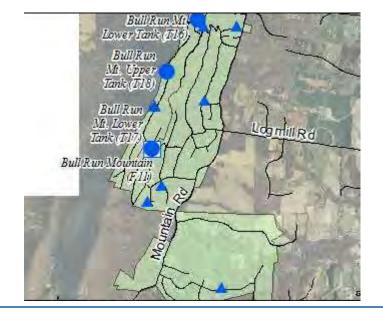
PROJECT PICTURE

| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 6430 | 7800 | 1000 | 0 | 0 | 0 | 0 | 15230 |

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

| Pl | ROJECT INFORMATION | PROJECT DESCRIPTION | | | |
|-----------------------|--|----------------------|---|--|--|
| Project Name: | Bull Run Mountain Well Upgrades | Project Description: | The design and construction of well improvements in the Bull Run Mountain Well | | |
| CIP Number: | WSUP-111 | | Systems for backup supply. The project scope consists of structural modifications for updated chemical feed equipment and the installation of disinfection facilities | | |
| JDE Number(s): | 24WBHW0101 | | at various well sites; design of a replacement PRV vault to control flows and | | |
| Location: | Bull Run Mountain / Evergreen Well Systems | | pressures between service zones; the investigation, design, and construction of new well sites, piping, and a future booster pump to increase capacity in the | | |
| Pressure Zone: | BH – Bull Run Mountain High, BW – Bull Run Mountain Low, EG - Evergreen | | system. | | |
| Sewershed: | N/A | Project Benefit: | These modifications and improvements shall increase reliability and enhance system operations. | | |
| Magisterial District: | GN – Gainesville | Source Derivation: | Operations and Maintenance Division; Engineering and Planning Division; Bu | | |
| Project Estimate: | PER | | Service Area Well Improvements PER – Dewberry (June 2020); Managed by the | | |
| Estimate By: | Engineering and Planning Division, Operations and Maintenance Division | | Operations and Maintenance Division. | | |
| | | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 1739 | 200 | 650 | 237 | 0 | 0 | 0 | 2826 |

PROJECT FUNDING

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

| PROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|--|----------------------|---|--|--|
| Project Name: | Manassas Southside Booster Pumping Station, F18 | Project Description: | Design and construction of modifications to the Manassas Southside Booster Pumping Station. Modifications to include: a third pump and new impellers to | | |
| CIP Number: | WSUP-112 | | increase pumping capacity from 2 MGD to 4 MGD, pump control valves, and variable frequency drives (VFDs). A standby generator shall be provided, the HVAC | | |
| JDE Number(s): | 22WMSF1851, 24WMSF1851 | | system shall be modified for easier maintenance, and the SCADA and electrical | | |
| Location: | Blooms Quarry Ln., Manassas | | systems shall be updated to current standards. | | |
| Pressure Zone: | MS – Manassas Southside | Project Benefit: | The increased pumping capacity at the booster pumping station shall improve | | |
| Sewershed: | YS – Yorkshire | | pumping efficiencies, provide better service and reliability to existing and future customers, and meet growth demands within the Manassas Southside pressure | | |
| Magisterial District: | CO – Coles | | zone. | | |
| Project Estimate: | Contract Award | Source Derivation: | Engineering and Planning Division; Operations and Maintenance Division; | | |
| Estimate By: | Engineering and Planning Division | | Manassas Southside Booster Pumping Station PER – Hazen and Sawyer (January 2018, Revision July 27, 2018); Managed by the Project Management Office. | | |

PROJECT FUNDING

| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 1565 | 35 | 0 | 0 | 0 | 0 | 0 | 1600 |

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



PROJECT PICTURE

| PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|--------------------------|----------------------|--|--|
| Project Name: | Capital Meter Program | Project Description: | The SA installs meters as part of new installation due to growth and to replace or | |
| CIP Number: | WSUP-114 | | 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 | |
| JDE Number(s): | 22WCWZ0001, 24WCWZ0001 | | 95,000 meters to maintain, approximately 93% of which are residential that have | |
| Location: | County Wide | | 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 | |
| Pressure Zone: | Multiple | | for age and consumption of active meters and are made for the following year. On | |
| Sewershed: | Multiple | | average, 5,500 meters require repair or replacement annually. | |
| Magisterial District: | Multiple | Project Benefit: | The goal of this project is to account for all new meter expenditures related to | |
| Project Estimate: | Order of Magnitude | | growth, approximately \$400,000 annually. Proper maintenance and timely replacement of meters reduces water loss and maximizes revenue by accurately | |
| Estimate By: | Finance – Field Services | | capturing consumption. The annual cost of replacing failing meters is approximately \$1.375 million (equivalent to 5,500 meters at \$250 per meter). | |
| | | Source Derivation: | Finance – Customer Service Department; Managed by Finance – Field Services | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 0 | 1525 | 1525 | 1525 | 1525 | 1525 | 0 | 7625 |

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

| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|---|----------------------|---|
| Project Name: | Unity Reed Booster Pumping Station, F14 and Discharge Main | Project Description: | This project includes the design and construction of new and upgraded pumps and associated appurtenances, site work, electrical upgrades, new generator, new |
| CIP Number: | WSUP-116 | | SCADA systems, and a control building to expand the capacity of the Unity Reed (F14) booster pumping station from 18 MGD to 24 MGD. The project also includes |
| JDE Number(s): | 22WGWM0901, 24WGWM0901 | | the design and construction of approximately 2,100 feet of 36-inch transmission |
| Location: | 8814 Rixlew Ln., Manassas | | main from the booster pumping station to Wellington Road and associated easement acquisition. |
| Pressure Zone: | GW - Gainesville | | |
| Sewershed: | FB – Flat Branch | Project Benefit: | The increased pumping capacity at the booster pumping station shall impro pumping efficiencies and provide better service and reliability to existing a future customers in the Gainesville pressure zone. The project shall also provi |
| Magisterial District: | BR - Brentsville | | |
| Project Estimate: | PER | | an additional supply from the discharge at the booster pumping station to improve reliability in the Gainesville pressure zone should there be a disruption in the |
| Estimate By: | Engineering and Planning Division | | 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 the Project Management Office. |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 1170 | 500 | 6853 | 5803 | 0 | 0 | 0 | 14326 |

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

| PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|---------------------------------------|--|---|--|--|
| Eastern Area Pressure Reducing Valves | Project Description: | Design and construction of three pressure control valves and associated piping in | | |
| WSUP-117 | | existing meter vaults and the Garfield Booster Pumping Station in the Woodbridge and Dumfries pressure zones. These control valves are required to regulate | | |
| 24WFWV0101 | | pressures during various pumping operations at Fairfax Water and enable the | | |
| Multiple Meter Stations, Garfield BPS | | bypass of the Garfield Booster Pumping Station during normal operations. | | |
| WL – Woodbridge | Project Benefit: | Pressure control in the Woodbridge and Dumfries pressure zones is required when | | |
| BM – Belmont | | Fairfax Water increases the delivery pressure in portions of the existing transmission system as part of the Occoquan River Crossing project (REG-1). These | | |
| WB – Woodbridge | | control valves will avoid over-pressurization in both pressure zones and allow the | | |
| Order of Magnitude | | bypass of the Garfield Booster Pumping Station during normal operations to reduce pumping costs. | | |
| Engineering and Planning Division | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. | | |
| | Eastern Area Pressure Reducing Valves WSUP-117 24WFWV0101 Multiple Meter Stations, Garfield BPS WL – Woodbridge BM – Belmont WB – Woodbridge Order of Magnitude | Eastern Area Pressure Reducing ValvesProject Description:WSUP-11724WFWV010124WFWV0101Heter Stations, Garfield BPSWL – WoodbridgeProject Benefit:BM – BelmontWB – WoodbridgeWB – WoodbridgeOrder of MagnitudeEngineering and Planning DivisionHeter Stations | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 345 | 300 | 700 | 75 | 0 | 0 | 0 | 1420 |

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

WATER STORAGE PROJECTS





| P | PROJECT INFORMATION | | PROJECT DESCRIPTION | |
|-----------------------|---|----------------------|--|--|
| Project Name: | Water Storage Tank Rehabilitation Program | Project Description: | Repair and rehabilitation of water storage tanks from defects including peeling | |
| CIP Number: | WST-110 | | paint, rust, pitting, and delaminating of the surface coat from the primer coat. In addition, the project shall install mixing systems as required while tanks undergo | |
| JDE Number(s): | Multiple | | refurbishment. Other components that are upgraded as needed include lighting, | |
| Location: | County Wide | | fencing, control valves, and SCADA systems. The storage tanks scheduled for rehabilitation during the 5-year CIP period include Dominion Valley (T-30), | |
| Pressure Zone: | Multiple | | Nottoway (T-28), Forest Park (T-25) and Cardinal (T-06). The timing and | |
| Sewershed: | Multiple | | execution are subject to change based on operational needs and priorities. | |
| Magisterial District: | Multiple | Project Benefit: | Preserve and extend the economic life of each water tank. In addition, the | |
| Project Estimate: | Order of Magnitude | | project shall prevent stagnation of water within the tank with the installation of mixing systems. | |
| Estimate By: | Operations and Maintenance Division | | | |
| | | Source Derivation: | Operations and Maintenance Division; Managed by the Project Management Office. | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 0 | 40 | 1750 | 1750 | 1750 | 1348 | 0 | 6638 |

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

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|-------------------------------------|----------------------|---|
| Project Name: | Tank Re-Chlorination Program | Project Description: | Residual Control System (RCS) is a management system that provides an |
| CIP Number: | WST-111 | | intelligent, automated disinfectant boosting system that provides the ability to set, control, and maintain cost-effective chlorine residual levels in water storage |
| JDE Number(s): | Multiple | | tanks. In addition, the project shall install the management system, controls, and |
| Location: | County Wide | | ancillary equipment. Other Components that are upgraded as needed are electrical equipment, tank mixing system, and thermal probes to monitor mixing. |
| Pressure Zone: | Multiple | | The storage tanks scheduled for an RCS system during this 5-year CIP period |
| Sewershed: | Multiple | | include Braemar (T-26), Haymarket (T-20), Manassas Southside (T-24) and Landfill (T-31). The timing and execution are subject to change based on |
| Magisterial District: | Multiple | | operational needs and priorities. |
| Project Estimate: | Order of Magnitude | Project Benefit: | This project provides an important safeguard against the risk of subsequent |
| Estimate By: | Operations and Maintenance Division | | contamination after treatment, a unique and significant benefit for public health. |
| | | Source Derivation: | Operations and Maintenance Division; Managed by the Project Management Office. |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 0 | 1315 | 1200 | 1200 | 1200 | 230 | 0 | 5145 |

PROJECT FUNDING

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

FY24 – FY28



WATER TRANSMISSION PROJECTS

| PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|---|----------------------|---|--|
| Project Name: | Dawkins Branch Transmission Main | Project Description: | Design and construction of approximately 6,650 feet of 30-inch water main along | |
| CIP Number: | WAT-115 | | University Boulevard from Sudley Manor Drive to the west side of Devlin Road. | |
| JDE Number(s): | 22WBRM0101, 24WBRM0101, 22WGWM1301, 24WGWM1301 | | 4,300 feet of the water main is to be designed and constructed by the SA 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 | |
| Location: | University Blvd. between Sudley Manor Dr. and Devlin Rd. | | Drive and Edmonston Drive. | |
| Pressure Zone: | GW – Gainesville | Project Benefit: | This project shall extend a major transmission main through the center of the Gainesville pressure zone to convey additional pump discharge from the Unity | |
| Sewershed: | BR – Broad Run | | Reed, F14 Booster Pumping Station. This project shall increase the transmission | |
| Magisterial District: | BR – Brentsville | | capacity throughout the pressure zone and strengthen the supply to the Haymarket pressure zone. | |
| Project Estimate: | OPCC | | P. 000 0. 0 10. 0. | |
| Estimate By: | Engineering and Planning Division | Source Derivation: | Gannett Fleming Western Zone Water Transmission Main Study, 1992; Managed by the Engineering and Planning Division, Project Management Office and Prince William County. | |

1000

1500

PRE-FY24

529

PROJECT PICTURE



FY24 FY25 FY26 FY27 FY28 POST- FY28 TOTAL

0

2500

2237

PROJECT FUNDING

0

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

7766

| PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|---|----------------------|--|--|
| Project Name: | Gainesville to Manassas South Connector | Project Description: | Construction of approximately 6,500 feet of 16-inch water main to interconnect | |
| CIP Number: | WAT-122 | | the Manassas Southside and Gainesville pressure zones. This project also includes | |
| JDE Number(s): | 22WMSM0101, 24WMSM0101 | | the construction of a pressure control valve vault to regulate the flows and pressures between zones. | |
| Location: | Harry J Parish Blvd. to Pennsylvania Ave. | | | |
| Pressure Zone: | MS – Manassas Southside, GW – Gainesville | Project Benefit: | Provides the capability to convey water between pressure zones at the san hydraulic gradient for increased reliability and redundancy. Additionally, | |
| Sewershed: | GD – Godwin Drive | | project shall provide a secondary route for the transmission of water from Fairfax | |
| Magisterial District: | BR – Brentsville, CO – Coles | | Water to all areas surrounding the City of Manassas served by the SA. | |
| Project Estimate: | OPCC | Source Derivation: | Engineering and Planning Division; WRA Water Supply and Distribution System | |
| Estimate By: | Engineering and Planning Division, CH2M, Hazen | | Optimization Study, 2002; Managed by the Engineering and Planning Division and Project Management Office. | |
| | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 820 | 0 | 0 | 0 | 378 | 2500 | 1556 | 5254 |

| 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% | | |
| PROJECT TOTAL | 100% | | |

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|---|----------------------|--|
| Project Name: | Possum Point Road Water Main – Phase 2 | Project Description: | Replacement of approximately 11,800 feet of existing, aged 12-inch water main |
| CIP Number: | WAT-138 | | with new 12-inch water main along Possum Point Road from Howard Street to |
| JDE Number(s): | Not Assigned | | Summer Duck Drive, and then from the Town of Dumfries limits to the terminus of Possum Point Road. |
| Location: | Howard St. to Summer Duck Dr., Town Limits to Possum Point Rd. terminus | Project Benefit: | Replacement of the existing water main that has corroded over time due to acidic soils resulting in numerous breaks over recent years shall improve system |
| Pressure Zone: | DT – Dumfries | | reliability and lower maintenance costs. |
| Sewershed: | DM – Dumfries | Source Derivation: | Engineering and Planning Division; Managed by the Engineering and Planning |
| Magisterial District: | PO – Potomac | | Division and Project Management Office. |
| Project Estimate: | Order of Magnitude | | |
| Estimate By: | Engineering and Planning Division | | |
| | | | |

PROJECT PICTURE



PRE-FY24 FY24 FY28 POST- FY28 TOTAL FY25 FY26 FY27 0 0 0 408 2272 2000 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 | - | | | |
| PROJECT TOTAL | 100% | | | |

| PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|-------------------------------------|----------------------|--|--|
| Project Name: | Route 1 Transmission Main – Phase 1 | Project Description: | Design and construction of approximately 13,500 feet of 30-inch water main along | |
| CIP Number: | WAT-181 | | Route 1 from the Garfield Booster Pumping Station to Route 234. | |
| JDE Number(s): | 22WDMM0001, 24WDMM0001 | Project Benefit: | This project shall increase transmission capacity and reliability within the Dumfries | |
| Location: | Rt. 1 from Garfield BPS to Rt. 234 | | pressure zone, increase pumping efficiency at the Garfield Booster Pump Station, and enhance the transfer of water into the Montclair pressure zone Potomac Shores area. This project shall also enable several existing, of | |
| Pressure Zone: | DM – Dumfries | | | |
| Sewershed: | Multiple | | concrete and cast iron mains that have experienced numerous breaks to be removed from service. | |
| Magisterial District: | PO – Potomac and WB – Woodbridge | | | |
| Project Estimate: | Contract Award | Source Derivation: | Engineering and Planning Division; WRA East End Water System Technical Memo, 2001; Managed by the Project Management Office. | |
| Estimate By: | Engineering and Planning Division | | | |
| | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 12882 | 311 | 0 | 0 | 0 | 0 | 0 | 13193 |

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

| PI | ROJECT INFORMATION | PROJECT DESCRIPTION | | |
|-----------------------|--|----------------------|---|--|
| Project Name: | Route 1 Transmission Main – Phase 2 | Project Description: | Design and construction of approximately 8,750 feet of 24-inch water main along | |
| CIP Number: | WAT-182 | | 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. | |
| JDE Number(s): | 22WDMM0002, 24WDMM0002 | | | |
| Location: | Rt. 1 from Rt. 234 to Fuller Heights Rd. | Project Benefit: | This project shall increase transmission capacity, reliability, and redundancy we the Dumfries pressure zone south of Route 234 and enable several existing | |
| Pressure Zone: | DM – Dumfries | | cast iron water mains that have experienced numerous breaks to be removed | |
| Sewershed: | DM – Dumfries and LC – Little Creek | | from service. | |
| Magisterial District: | PO – Potomac | Source Derivation: | Engineering and Planning Division; WRA East End Water System Technical Memo, | |
| Project Estimate: | Contract Award | | 2001; Managed by the Project Management Office. | |
| Estimate By: | Engineering and Planning Division | | | |
| | | | | |

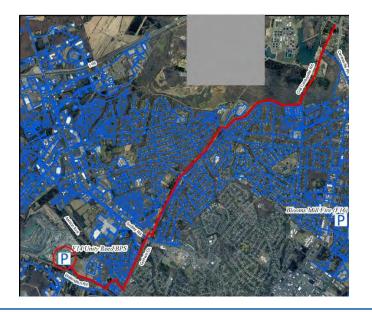
PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 11935 | 1481 | 0 | 0 | 0 | 0 | 0 | 13416 |

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

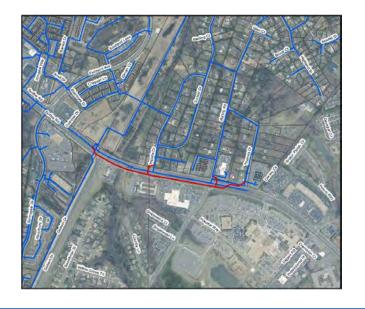
| PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|--|----------------------|--|--|
| Project Name: | Western Area Resiliency - Rt 28 Bypass | Project Description: | Design and construction of approximately 26,000 feet of 42-inch water main from | |
| CIP Number: | WAT-183 | | Rt. 28 in Fairfax County to the Unity Reed Booster Pumping Station. This project was recommended in the Master Plan as part of the redundancy/resiliency | |
| JDE Number(s): | Not Assigned | | elements of the Levels of Service to mitigate the current single point of failure for | |
| Location: | FW Supply at Rt.28 to Unity Reed BPS | | the 42" transmission main that delivers water for the Western water system. The first phase consisting of about 19,000 feet, will be designed and constructed in | |
| Pressure Zone: | Multiple | | conjunction with the proposed Route 28 Bypass road project from Rt. 28 near | |
| Sewershed: | Multiple | | Ordway Road in Fairfax County to the intersection of Sudley Road and Godwin Road in Prince William County. The second phase consisting of about 7,000 feet, | |
| Magisterial District: | Multiple | | will continue the 42-inch water main from Sudley Road to the Unity Reed BPS. | |
| Project Estimate: | Master Plan/PER | Project Benefit: | This project will provide redundancy to the SA's Western Distribution System, | |
| Estimate By: | Engineering and Planning Division | | enable the future rehabilitation of the existing 42-inch PCCP water main, and allow the new main to be operated at a higher gradient to bypass the Unity Reed BPS under certain demand and emergency conditions. | |
| | | Source Derivation: | B&C Master Plan, 2022; Managed by the Engineering and Planning Division. | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|-------|-------|------------|-------|
| 0 | 500 | 500 | 7500 | 14000 | 14000 | 4325 | 40825 |

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

| PI | PROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|--|----------------------|--|--|--|--|
| Project Name: | Sudley Road Water Main – Phase 3 | Project Description: | Design and construction of approximately 2,300 feet of 12-inch PVC water main, | | | |
| CIP Number: | WAT-184 | | 145 feet of 8-inch PVC water main, 50 feet of 6-inch DIP water main and 105 feet of 4-inch PVC water main in Sudley Road from Godwin Drive to Thomas Drive to | | | |
| JDE Number(s): | 24WGMM0701 | | replace the existing 14-inch CIP water main in conjunction with the City of | | | |
| Location: | Sudley Road from Godwin Drive to Thomas Drive | Project Benefit: | Manassas' proposed road improvement project. This project replaces a portion of an existing cast iron pipe water main with PV | | | |
| Pressure Zone: | Greater Manassas | | pipe in Sudley Road that is currently out of service due to several breaks resulting from corrosive soils. Restoring service in this area will provide redundancy and | | | |
| Sewershed: | Flat Branch | | improve hydraulic capacity to existing customers. | | | |
| Magisterial District: | N/A, City of Manassas | Source Derivation: | Engineering and Planning Division; Managed by the Engineering and Planning | | | |
| Project Estimate: | Engineer of Record/City of Manassas | | Division. | | | |
| Estimate By: | Engineering and Planning Division | | | | | |
| | | | | | | |



PROJECT PICTURE

| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 180 | 1000 | 1000 | 0 | 0 | 0 | 0 | 2180 |

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

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|---|----------------------|--|
| Project Name: | Water Distribution Asset Replacement Program | Project Description: | Replacement of water distribution assets including water main, hydrants, service lines, meter crocks, and isolation valves. The assets scheduled for replacement |
| CIP Number: | WAT-200 | | during this 5-year CIP period include: water mains in Paxton Street, King George street, Willow Lane, Norfolk Street, Salem Street, Cabin Road, Hylton Avenue, |
| JDE Number(s): | Multiple | | Bayside Avenue and the replacement of hydrants and valves throughout the |
| Location: | County Wide | | system. The timing and execution of these projects are subject to change based on operational needs and priorities. |
| Pressure Zone: | Multiple | | |
| Sewershed: | Multiple | Project Benefit: | The replacement of water distribution assets will improve reliability, increase fire protection, reduce maintenance costs, and improve overall customer service. |
| Magisterial District: | Multiple | | |
| Project Estimate: | Order of Magnitude | Source Derivation: | Operations and Maintenance Division; Managed by the Engineering and Planning Division, Project Management Office and Operations and Maintenance Division. |
| Estimate By: | Engineering and Planning Division | | |
| | | | |

PROJECT FUNDING



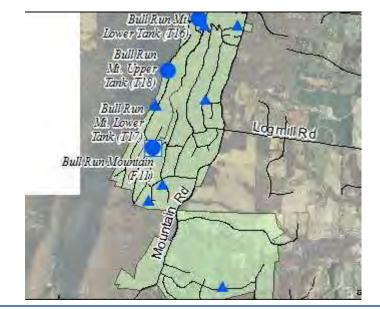
PROJECT PICTURE

| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 0 | 3500 | 3500 | 3500 | 3500 | 3500 | 0 | 17500 |

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

| Pl | ROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|---|----------------------|---|--|--|--|
| Project Name: | Bull Run Mountain Distribution System Improvements | Project Description: | Replacement and installation of water distribution assets including water mains, hydrants, service lines, meter crocks, and isolation valves. The assets scheduled | | | |
| CIP Number: | WAT-201 | | for replacement during this 5-year CIP period include: water mains in Youngs Drive and Oak Lane, and valve replacements. The timing and execution are subject to | | | |
| JDE Number(s): | Not Assigned | | change based on operational needs and priorities. | | | |
| Location: | Bull Run Mountain | Project Benefit: | Many of the existing assets are located in residential backyards or are in close | | | |
| Pressure Zone: | BWU – Bull Run Upper, BWL – Bull Run | | proximity to various structures and have had numerous breaks. The replacement | | | |
| | Lower, EG – Evergreen | | and relocation of water distribution assets shall improve reliability, redu maintenance costs, increase operational efficiencies of the well sites, and impro | | | |
| Sewershed: | N/A | | overall customer service. | | | |
| Magisterial District: | GN – Gainesville | Source Derivation: | Operations and Maintenance Division; Managed by the Engineering and Planning | | | |
| Project Estimate: | t Estimate: Order of Magnitude | | Division and Project Management Office. | | | |
| Estimate By: | Engineering and Planning Division | | | | | |
| | | | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 0 | 0 | 300 | 1000 | 1000 | 1000 | 0 | 3300 |

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

SEWAGE PUMPING STATION PROJECTS







| PI | ROJECT INFORMATION | PROJECT DESCRIPTION | | |
|-----------------------|-------------------------------------|----------------------|---|--|
| Project Name: | Generator Replacement Program | Project Description: | This program upgrades or replaces aging diesel generators, transfer switches, and | |
| CIP Number: | SPS-100 | | appurtenances at SA facilities. | |
| JDE Number(s): | Not Assigned | Project Benefit: | This program improves and maintains a reliable, resilient, and operational system | |
| Location: | County Wide | | by replacing aging generators and appurtenances. It eliminates the difficulty in obtaining replacement parts for old and outdated generators. | |
| Pressure Zone: | Multiple | Course Device them | On and in a difference of Division Managed by the One actions and | |
| Sewershed: | Multiple | Source Derivation: | Operations and Maintenance Division, Managed by the Operations and Maintenance Division. | |
| Magisterial District: | Multiple | | | |
| Project Estimate: | Order of Magnitude | | | |
| Estimate By: | Operations and Maintenance Division | | | |
| | | | | |

PROJECT PICTURE



PRE-FY24 FY24 FY25 FY28 POST- FY28 TOTAL FY26 FY27 0 340 820 1070 1070 1070 0 4370

PROJECT FUNDING

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

FY24 – FY28

| PI | ROJECT INFORMATION | PROJECT DESCRIPTION | | |
|-----------------------|---|----------------------|--|--|
| Project Name: | Occoquan Forest Sewage Pumping Stations, OQL36 & OQL37 | Project Description: | The design and construction of the replacement of the antiquated Occoquan Forest Sewage Pumping Station OQL36, associated force main, and the | |
| CIP Number: | SPS-107 | | rehabilitation of Sewage Pumping Station OQL37. This project also includes the installation of emergency generators and by-pass connections on the force mains. | |
| JDE Number(s): | 24SOQL7501 (L36), 24SOQL3701 (L37) | | | |
| Location: | 10820 Split Rail Dr. and 6204 Ramblewood Tr., Manassas | 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 | |
| Pressure Zone: | HO – Hoadly | | emergency backup power supplies, and improve safety conditions at both sewage | |
| Sewershed: | OQ – Occoquan Forest | | pumping stations. | |
| Magisterial District: | OC – Occoquan | Source Derivation: | Engineering and Planning Division; Operations and Maintenance Division; Managed by the Project Management Office. | |
| Project Estimate: | Contract Award | | | |
| Estimate By: | Engineering and Planning Division | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 6022 | 472 | 0 | 0 | 0 | 0 | 0 | 6494 |

PROJECT FUNDING

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

| PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET |
|--|
|--|

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|--|----------------------|---|--|--|
| Project Name: | Nokesville Sewage Pumping Station, L20 and Force Main | Project Description: | The design and construction of the replacement of the antiquated Nokesville Sewage Pumping Station, L20, and associated force main. The new sewage | | |
| CIP Number: | SPS-108 | | pumping station shall be equipped with an emergency generator, a by-pass connection on the new force main, and new flow monitoring equipment. | | |
| JDE Number(s): | 24SNKL7701 | Project Benefit: | This project shall provide improved, reliable service to the Nokesville sewershed | | |
| Location: | 12829 Fitzwater Dr., Nokesville | | in compliance with the PWC Comprehensive Plan and VDEQ regulations. The | | |
| Pressure Zone: | N/A | | project shall reduce maintenance expenses, improve reliability, provide emergency backup power supply, and improve safety conditions at the sewage | | |
| Sewershed: | NK – Nokesville | | pumping station. | | |
| Magisterial District: | BR - Brentsville | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. | | |
| Project Estimate: | Contract Award | | | | |
| Estimate By: | Engineering and Planning Division | | | | |
| | | | | | |



| | PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|---|----------|------|------|------|------|------|------------|-------|
| ľ | 2629 | 212 | 0 | 0 | 0 | 0 | 0 | 2841 |

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

| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|---|----------------------|--|--|--|--|
| Project Name: | Graham Park Sewage Pumping Station, L13 | Project Description: | Replacement of the existing antiquated Graham Park Sewage Pumping Station. | | | |
| CIP Number: | SPS-112 | | The project shall include the installation of new submersible pumps with new controls, motors, emergency generator, by-pass connection on the force main | | | |
| JDE Number(s): | 24SMRL7601 | | new flow metering, and SCADA equipment. The site layout shall also be improve | | | |
| Location: | 3196 Shoreview Rd., Dumfries | | to protect the facilities from storm surge flooding and new fencing around the premises shall be installed. Also included is the complete replacement of | | | |
| Pressure Zone: | DT – Dumfries | | approximately 550 feet of existing 4-inch force main. | | | |
| Sewershed: | MR – Melrose | Project Benefit: | Improve service to existing customers in the Graham Park sewershed in | | | |
| Magisterial District: | PO – Potomac | | compliance with the PWC Comprehensive Plan and VDEQ regulations. This project shall reduce maintenance costs, provide emergency backup power supply, and | | | |
| Project Estimate: | Contract Award | | improve safety conditions at the sewage pumping station. | | | |
| Estimate By: | Engineering and Planning Division | Source Devivation. | Operations and Maintonance Division: Managed by the Dreject Management | | | |
| | | Source Derivation: | Operations and Maintenance Division; Managed by the Project Management Office. | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 4767 | 62 | 0 | 0 | 0 | 0 | 0 | 4829 |

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

| PROJECT INFORMATION | | | PROJECT DESCRIPTION |
|-----------------------|---|----------------------|---|
| Project Name: | Heritage Hunt Sewage Pumping Station, L52 and Force Main | Project Description: | Replacement of the Heritage Hunt Sewage Pumping Station to increase pumping capacity from 5 MGD to 8 MGD. The project shall include a manual screen, dual |
| CIP Number: | SPS-113 | | channel grinders, dry-pit submersible pumps and associated piping and valves, bioxide odor control system, new flowmeters, and a crane system. This project |
| JDE Number(s): | 22SLBL5202, 24SLBL5202, 22SLBM9001, 24SLBM9001 | | also includes the design and construction of approximately 10,250 feet of 24-inch force main from the station to the existing 24-inch force main south of I-66, |
| Location: | 6588 Alderwood Way, Gainesville | | parallel to the existing 10-inch and 16-inch force mains already in service. |
| Pressure Zone: | HM – Haymarket | Project Benefit: | Continued access to public sewer service for residential and commercial |
| Sewershed: | LB – Little Bull Run | | developments in the Little Bull Run sewershed in conformance with the PWC Comprehensive Plan in effect through December 13, 2022. Ultimate development |
| Magisterial District: | GN – Gainesville | | of the service area will exceed the capacity of the current station. Discharge |
| Project Estimate: | Contract Award | | capacity of the station will be increased to meet current and future development needs. |
| Estimate By: | Engineering and Planning Division | Source Derivation: | Engineering and Planning Division; Dewberry Opinion of Probable Construction Cost, 2021; Managed by the Project Management Office. |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|-------|-------|------|------|------|------------|-------|
| 10715 | 17000 | 10000 | 6276 | 0 | 0 | 0 | 43991 |

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

| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|---|----------------------|---|
| Project Name: | Belmont Sewage Pumping Station, L17 and Force Main | Project Description: | Replacement of the existing Belmont Sewage Pumping Station to increase pumping capacity from 8 MGD to 12 MGD. This project will include a new influent |
| CIP Number: | SPS-115 | | channel, channel grinder, wet well, flow meters, odor control, SCADA, mechanical and electrical equipment, and a standby generator. This project also includes the |
| JDE Number(s): | 22SBML0201, 24SBML0201 | | evaluation of constructing a new parallel force main to improve overall pumping |
| Location: | 13760 Dabney Rd., Woodbridge | | operations in the collection system. |
| Pressure Zone: | WL – Woodbridge | Project Benefit: | This project shall provide adequate pumping capacity to serve future development |
| Sewershed: | BM – Belmont | | within the sewer shed in conformance with the PWC Comprehensive Plan. This project will also relieve capacity constraints in the existing 30-inch force main |
| Magisterial District: | WB – Woodbridge | | coming from the Occoquan Creek Sewage Pumping Station by conveying the |
| Project Estimate: | OPCC | | Belmont Sewage Pumping Station flows directly into the Colchester Interceptor. |
| Estimate By: | Engineering and Planning Division | Source Derivation: | GHD Belmont Sewage Pumping Station Preliminary Engineering Report, 2020; Managed by the Project Management Office. |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 944 | 1000 | 800 | 2500 | 6000 | 5289 | 0 | 16533 |

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

| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|---|----------------------|---|
| Project Name: | Hornbaker Sewage Pumping Station, L06 and Force Main | Project Description: | Rehabilitation of the antiquated Hornbaker Sewage Pumping Station and construction of approximately 1,360 feet of 6-inch force main routed from the |
| CIP Number: | SPS-116 | | Hornbaker Sewage Pumping Station to Occoquan Road to replace the existing 6- inch force main that has experienced numerous breaks. |
| JDE Number(s): | 24SOCL0601 | | |
| Location: | Sport & Health Dr., Woodbridge | Project Benefit: | This project shall improve service and reliability to existing customers in compliance with the PWC Comprehensive Plan and VDEQ regulations. The project |
| Pressure Zone: | WL – Woodbridge | | shall reduce maintenance costs, improve reliability, and the new force main shall |
| Sewershed: | OC – Occoquan Creek | | enhance operations and improve reliability of the pumping station. |
| Magisterial District: | OC – Occoquan | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. |
| Project Estimate: | Order of Magnitude | | |
| Estimate By: | Engineering and Planning Division | | |
| | | | |

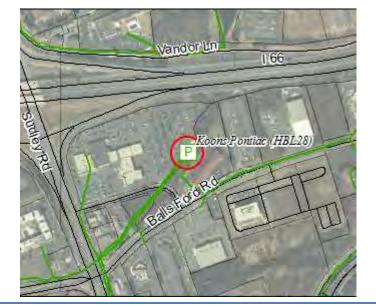


| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 200 | 513 | 3000 | 253 | 0 | 0 | 0 | 3966 |

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

| PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|------------------------------------|----------------------|---|--|
| Project Name: | Koon's Sewage Pumping Station, L28 | Project Description: | Replacement of the Koon's Sewage Pumping Station to include new pumps and | |
| CIP Number: | SPS-118 | | motors, grinder, wet well, meter/valve vault, HVAC, odor control, SCADA, mechanical and electrical equipment, standby generator, and perimeter fencing. | |
| JDE Number(s): | 24SBUL0101 | | | |
| Location: | 10640 Automotive Dr., Manassas | Project Benefit: | This project shall improve service and reliability to existing and future customers within the sewershed and reduce maintenance costs. | |
| Pressure Zone: | GW – Gainesville | | | |
| Sewershed: | BU – Bull Run | Source Derivation: | GHD Koon's Sewage Pumping Station Preliminary Engineering Report, 2020; Managed by the Project Management Office. | |
| Magisterial District: | GN – Gainesville | | | |
| Project Estimate: | PER | | | |
| Estimate By: | Engineering and Planning Division | | | |
| | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 586 | 1000 | 2238 | 1500 | 0 | 0 | 0 | 5324 |

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

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|---|----------------------|--|--|--|
| Project Name: | Spinnaker Court Sewage Pumping Station, LO2 and Force Main | 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, | | |
| CIP Number: | SPS-123 | | SCADA, mechanical and electrical equipment, standby generator, and perimeter fencing. Also included is the construction of approximately 500 feet of 6-inch force | | |
| JDE Number(s): | 24SHRL0101 | | main to replace the existing 4-inch force main. | | |
| Location: | 2280 Spinnaker Ct., Woodbridge | Project Benefit: | Upgrade an antiqued sewage pumping station, which was built in 1970, to ne | | |
| Pressure Zone: | LR – Lake Ridge | | standards to improve station operation, reliability, security and reduce | | |
| Sewershed: | HR – Hooes Run | | maintenance costs. | | |
| Magisterial District: | OC – Occoquan | Source Derivation: | GHD Spinnaker Court Sewage Pumping Station Preliminary Engineering Report, | | |
| Project Estimate: | PER | | 2020; Managed by the Project Management Office. | | |
| Estimate By: | Engineering and Planning Division | | | | |
| | | | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 609 | 1000 | 1430 | 1500 | 0 | 0 | 0 | 4539 |

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

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|--|----------------------|---|--|--|
| Project Name: | Occoquan Creek Sewage Pumping Station, L04 and Gravity Main | Project Description: | Replacement of the existing Occoquan Creek Sewage Pumping Station to a new location to include the installation of new higher capacity pumps and associated | | |
| CIP Number: | SPS-125 | | piping and valves, mechanical and electrical equipment, flow meters, SCADA system, standby generator, and security measures. This project also includes the | | |
| JDE Number(s): | 24SOCL0701 | | design and construction of a new incoming 42-inch gravity main and provisions f | | |
| Location: | 13221 Marina Way, Woodbridge | | emergency storage. This project is planned to be executed with a Project Labor Agreement. | | |
| Pressure Zone: | WL – Woodbridge | | | | |
| Sewershed: | OC – Occoquan Creek | Project Benefit: | The project shall improve pump station operation, reliability, security, increase capacity for new customers, and reduce the risk of flooding by relocating the | | |
| Magisterial District: | WB – Woodbridge | | station further away from Occoquan Creek. | | |
| Project Estimate: | Order of Magnitude | Source Derivation: | GHD Occoquan Creek Sewage Pumping Station Preliminary Engineering Report, | | |
| Estimate By: | Engineering and Planning Division | | 2018; Managed by the Project Management Office. | | |
| | | | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 505 | 600 | 5745 | 6000 | 2539 | 0 | 0 | 15389 |

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

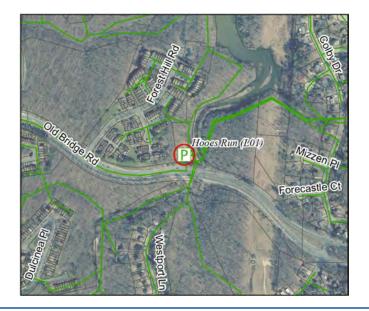
| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|--|----------------------|---|
| Project Name: | Piney Branch Sewage Pumping Station, L26 and Gravity Main | Project Description: | Demolition of the existing Piney Branch Sewage Pumping Station that is undersized and has reached the end of its service life and construction of |
| CIP Number: | SPS-126 | | approximately 6,600 feet of 24-inch gravity sewer main to combine the Piney Branch Sewershed with the Broad Run Sewershed. This project shall be |
| JDE Number(s): | Not Assigned | | constructed in conjunction with proposed future development using the Utility |
| Location: | Piney Branch SPS | | System Improvement Opportunity (USIO). |
| Pressure Zone: | GW – Gainesville | Project Benefit: | Eliminate an antiqued sewage pumping station and provide a higher capacity |
| Sewershed: | PB – Piney Branch, BR – Broad Run | | gravity sewer main to provide reliable service to the combined sewersheds in compliance with VDEQ regulations. |
| Magisterial District: | BR – Brentsville | | |
| Project Estimate: | Order of Magnitude | Source Derivation: | Engineering and Planning Division; Managed by the Engineering and Planning Division. |
| Estimate By: | Engineering and Planning Division | | |
| | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 1070 | 0 | 500 | 1000 | 1090 | 0 | 0 | 3660 |

| 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% | | | |
| PROJECT TOTAL | 100% | | | |

| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|---|----------------------|--|
| Project Name: | Hooes Run Sewage Pumping Station, L01 and Force Main | Project Description: | Replacement of the existing 48-year-old Hooes Run Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity), electrical, SCADA, |
| CIP Number: | SPS-134 | | HVAC system, and force main, and include security measures and emergency storage considerations. |
| JDE Number(s): | 24SHRL0201 | . | |
| Location: | 2502 Old Bridge Rd., Woodbridge | Project Benefit: | The project shall improve pump station operation, reliability, security, reduce maintenance costs and ensure projected long-term wastewater flows are |
| Pressure Zone: | LR – Lake Ridge | | satisfied. |
| Sewershed: | HR – Hooes Run | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. |
| Magisterial District: | OC – Occoquan | | |
| Project Estimate: | OPCC | | |
| Estimate By: | Engineering and Planning Division | | |
| | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|-------|-------|------|------------|-------|
| 213 | 600 | 3234 | 12000 | 11008 | 0 | 0 | 27055 |

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

| PI | PROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|--|----------------------|---|--|--|--|
| Project Name: | Yorkshire Sewage Pumping Station, L30 and Force Main | Project Description: | Rehabilitation of the existing 40-year-old Yorkshire Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity), electrical, SCADA, | | | |
| CIP Number: | SPS-135 | | and HVAC systems as required, and include security measures and emergency storage considerations. | | | |
| JDE Number(s): | 24SYSL010 | | | | | |
| Location: | 7415 Lake Dr., Manassas | Project Benefit: | The project shall improve pump station operation, reliability, security, red maintenance costs and ensure projected long-term wastewater flows | | | |
| Pressure Zone: | GM – Greater Manassas/Yorkshire | | satisfied. | | | |
| Sewershed: | YS – Yorkshire | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. | | | |
| Magisterial District: | CO – Coles | | | | | |
| Project Estimate: | OPCC | | | | | |
| Estimate By: | Engineering and Planning Division | | | | | |
| | | | | | | |
| | | | | | | |

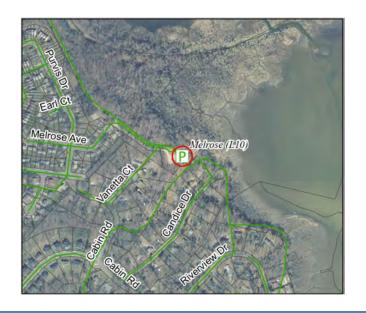


| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 210 | 761 | 2500 | 2535 | 2500 | 0 | 0 | 8506 |

| Proposed Funding Sources | | |
|--|------|--|
| Exp. Fund (02) – Availability Fees | 45% | |
| Commit. Fund (03) – Availability Fees | - | |
| Repl. Fund (04) – User Rates | 55% | |
| Other Contrib. – Development Contributions | - | |
| PROJECT TOTAL | 100% | |

| PI | PROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|-------------------------------------|----------------------|--|--|--|--|
| Project Name: | Melrose Sewage Pumping Station, L10 | Project Description: | Rehabilitation of the existing 47-year-old Melrose Sewage Pumping Station to | | | |
| CIP Number: | SPS-136 | | include an increase in firm pumping capacity to meet current design standards, and to improve grinder, electrical, SCADA, and HVAC systems, plus security | | | |
| JDE Number(s): | 24SDML0201 | | measures and emergency storage considerations. | | | |
| Location: | 3350 Melrose Ave., Triangle | | | | | |
| Pressure Zone: | DT – Dumfries/Triangle | Project Benefit: | The project shall improve pump station operation, reliability, security, reduce | | | |
| Sewershed: | MR – Melrose | | maintenance costs and ensure projected long-term wastewater flows are satisfied. | | | |
| Magisterial District: | PO – Potomac | | | | | |
| Project Estimate: | OPCC | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. | | | |
| Estimate By: | Engineering and Planning Division | | | | | |
| | | | | | | |

PROJECT PICTURE

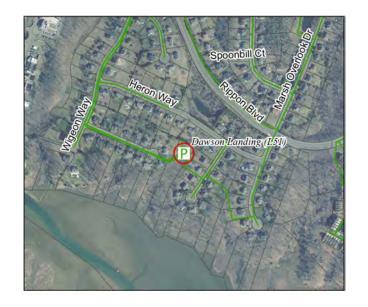


| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 208 | 708 | 2000 | 3353 | 2000 | 0 | 0 | 8269 |

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

| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|---|----------------------|--|
| Project Name: | Dawson Landing Sewage Pumping Station, L51 | Project Description: | Replacement of the existing 26-year-old Dawson Landing Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity), electrical, |
| CIP Number: | SPS-137 | | SCADA, and HVAC systems as required, and include security measures and emergency storage considerations. |
| JDE Number(s): | 24SNEL0401 | | |
| Location: | 1599 Whistling Swan Way, Woodbridge | | |
| Pressure Zone: | WL – Woodbridge | Project Benefit: | The project shall replace defective pumps to improve pump station operation, |
| Sewershed: | NE – Neabsco | | reliability, security, reduce maintenance costs and ensure projected long-term wastewater flows are satisfied. |
| Magisterial District: | WB – Woodbridge | | |
| Project Estimate: | OPCC | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. |
| Estimate By: | Engineering and Planning Division | | |
| | | | |

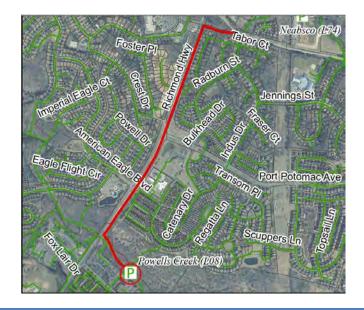
PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 206 | 0 | 517 | 1000 | 3071 | 2000 | 0 | 6794 |

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

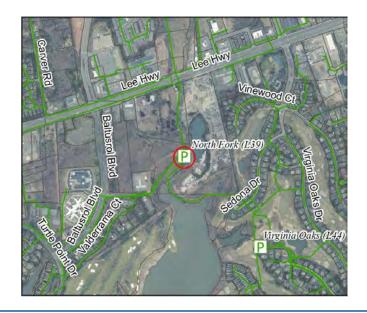
| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|--|----------------------|---|
| Project Name: | Powell's Creek Sewage Pumping Station, L08 and Force Main | Project Description: | Rehabilitation/replacement of the existing 25-year-old Powell's Creek Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity), |
| CIP Number: | SPS-138 | | electrical, SCADA, and HVAC systems as required, and include security measures and emergency storage considerations. Also included is the replacement of |
| JDE Number(s): | 22SPCL0401 & 24SPCL0401 | | approximately 6,100 feet of existing 24-inch force main. |
| Location: | 2750 Dettingen Place, Woodbridge | | |
| Pressure Zone: | DT - Dumfries | | |
| Sewershed: | PC – Powell's Creek | Project Benefit: | The project shall improve pump station operation, reliability, security, reduce maintenance costs and ensure projected long-term wastewater flows are |
| Magisterial District: | WB – Woodbridge | | satisfied. |
| Project Estimate: | Order of Magnitude | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. |
| Estimate By: | Engineering and Planning Division | | |
| | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 155 | 500 | 700 | 5000 | 8000 | 5645 | 0 | 20000 |

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

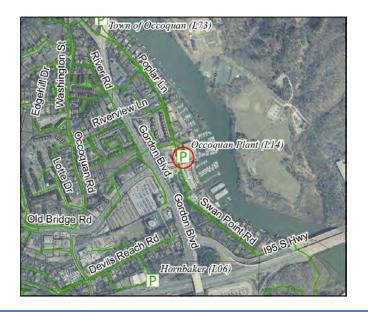
| PROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|--|----------------------|--|--|--|
| Project Name: | North Fork Sewage Pumping Station, L39 | Project Description: | Rehabilitation/replacement of the existing 30-year-old North Fork Sewage | | |
| CIP Number: SPS-139 | | | Pumping Station to upgrade structural, mechanical (piping and pumping capaci electrical, SCADA, and HVAC systems as required, and include security measu | | |
| JDE Number(s): | 222SNBL0301 & 24SNBL0301 | | and emergency storage considerations. | | |
| Location: | 14650 Otter Creek Court, Gainesville | | | | |
| Pressure Zone: | HM – Haymarket | Project Benefit: | The project shall improve pump station operation, reliability, security, reduce | | |
| Sewershed: | NB – North Branch | | maintenance costs and ensure projected long-term wastewater flows are satisfied. | | |
| Magisterial District: | BR – Brentsville | | | | |
| Project Estimate: | Order of Magnitude | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. | | |
| Estimate By: | Engineering and Planning Division | | | | |
| | | | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 131 | 0 | 400 | 600 | 4000 | 6500 | 2369 | 14000 |

| Proposed Funding Sources | | |
|--|------|--|
| Exp. Fund (02) – Availability Fees | 45% | |
| Commit. Fund (03) – Availability Fees | - | |
| Repl. Fund (04) – User Rates | 55% | |
| Other Contrib. – Development Contributions | - | |
| PROJECT TOTAL | 100% | |

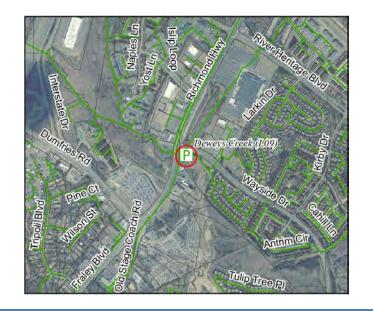
| Pl | PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|--|---|----------------------|---|--|--|
| Project Name: | Occoquan Plant Sewage Pumping Station, L14 | Project Description: | Rehabilitation/replacement of the existing 12-year-old Occoquan Plant Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity), | | |
| CIP Number: SPS-140 | | | electrical, SCADA, and HVAC systems as required, and include security meas and emergency storage considerations. | | |
| JDE Number(s): 22SOSL0501 & 24SOSL0501 | | | | | |
| Location: | 12715 Sea Ray Lane, Woodbridge | | | | |
| Pressure Zone: | WL – Woodbridge | Project Benefit: | The project shall improve pump station operation, reliability, security, reduce | | |
| Sewershed: | OS – Occoquan Plant | | maintenance costs and ensure projected long-term wastewater flows are satisfied. | | |
| Magisterial District: | OC – Occoquan | | | | |
| Project Estimate: | Order of Magnitude | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. | | |
| Estimate By: | Engineering and Planning Division | | | | |
| | | | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 133 | 0 | 400 | 600 | 5000 | 7500 | 4867 | 18500 |

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

| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|--------------------------------|--|----------------------|---|--|--|--|
| Project Name: | Dewey's Creek Sewage Pumping Station, L09 | Project Description: | Rehabilitation/replacement of the existing 49-year-old Dewey's Creek Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity), | | | |
| CIP Number: SPS-141 | | | electrical, SCADA, and HVAC systems as required, and include security measure and emergency storage considerations. | | | |
| JDE Number(s): | 22SDEL0201 & 24SDEL0201 | | | | | |
| Location: | 17199 Jefferson Davis Hwy., Dumfries | | | | | |
| Pressure Zone: | DT – Dumfries | Project Benefit: | The project shall improve pump station operation, reliability, security, red | | | |
| Sewershed: DE – Dewey's Branch | | | maintenance costs and ensure projected long-term wastewater flows are satisfied. | | | |
| Magisterial District: | PO – Potomac | | | | | |
| Project Estimate: | Order of Magnitude | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. | | | |
| Estimate By: | Engineering and Planning Division | | | | | |
| | | | | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 136 | 0 | 400 | 600 | 5000 | 8000 | 5864 | 20000 |

| Proposed Funding Sources | | | |
|--|------|--|--|
| Exp. Fund (02) – Availability Fees | 15% | | |
| Commit. Fund (03) – Availability Fees | - | | |
| Repl. Fund (04) – User Rates | 85% | | |
| Other Contrib. – Development Contributions | - | | |
| PROJECT TOTAL | 100% | | |

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|--|----------------------|---|
| Project Name: | Featherstone Sewage Pumping Station, L16, and Force Main | Project Description: | Rehabilitation/replacement of the existing 44-year-old Featherstone Sewage Pumping Station to upgrade structural, mechanical (piping and pumping capacity), |
| CIP Number: | SPS-142 | | electrical, SCADA, and HVAC systems as required, and include security measures and emergency storage considerations. |
| JDE Number(s): | 22SFSL0401 & 24SFSL0401 | | |
| Location: | 3458 Canal Road, Dumfries | | |
| Pressure Zone: | DT – Dumfries | Project Benefit: | The project shall improve pump station operation, reliability, security, reduce |
| Sewershed: | DM – Dumfries | | maintenance costs and ensure projected long-term wastewater flows are satisfied. |
| Magisterial District: | PO – Potomac | | |
| Project Estimate: | Order of Magnitude | Source Derivation: | B&C Master Plan, 2022; Managed by the Engineering and Planning Division and Project Management Office. |
| Estimate By: | Engineering and Planning Division | | |
| | | | |

PROJECT PICTURE

Featherstone (L16)

| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 75 | 500 | 800 | 2200 | 7500 | 7500 | 28425 | 47000 |
| | | | | | | | |

| Proposed Funding Sources | | | | |
|--|------|--|--|--|
| Exp. Fund (02) – Availability Fees | 45% | | | |
| Commit. Fund (03) – Availability Fees | - | | | |
| Repl. Fund (04) – User Rates | 55% | | | |
| Other Contrib. – Development Contributions | - | | | |
| PROJECT TOTAL | 100% | | | |



ł

SEWAGE COLLECTION PROJECTS



| P | PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|------------------------------------|----------------------|--|--|--|
| Project Name: | Dumfries Force Main and Water Main | 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 | | |
| CIP Number: | SEW-106 | | with new 6-inch DIP water main. | | |
| JDE Number(s): | 24SDMM4502 | Project Benefit: | The existing force main has experienced numerous breaks and presents a hig | | |
| Location: | Dumfries | | risk of a major sanitary sewer overflow (SSO). The project shall increase pumpir | | |
| Pressure Zone: | DT – Dumfries | | station efficiencies, improve flow capacity and reduce maintenance costs in the sewer system. This project shall also improve the water distribution system by | | |
| Sewershed: | DM – Dumfries | | replacing a smaller water main with a larger one and completing a system loop. | | |
| Magisterial District: | PO – Potomac | Source Derivation: | Engineering and Planning Division; Operations and Maintenance Division; | | |
| Project Estimate: | Contract Award | | Managed by the Project Management Office. | | |
| Estimate By: | Engineering and Planning Division | | | | |
| | | | | | |

PROJECT PICTURE



POST-PRE-FY24 FY24 FY25 FY26 FY27 FY28 TOTAL FY28 4251 423 0 0 0 0 0 4674

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

| P | ROJECT INFORMATION | PROJECT DESCRIPTION | | | |
|-----------------------|--|----------------------|---|--|--|
| Project Name: | Sudley Road Sewer Main | Project Description: | Design and construction of approximately 2,840 feet of 24-inch sanitary sewer | | |
| CIP Number: | SEW-157 | | main and manholes from Sudley Road to Williamson Boulevard to replace an existing 12-inch gravity sewer main. | | |
| JDE Number(s): | 22SBUM0102 | | | | |
| Location: | Sudley Rd. at the intersection with Coverstone Dr. | Project Benefit: | This project shall increase capacity along the Sudley Road corridor accommodate future anticipated growth. | | |
| Pressure Zone: | GM – Greater Manassas | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. | | |
| Sewershed: | BR –Bull Run | | | | |
| Magisterial District: | GN – Gainesville | | | | |
| Project Estimate: | Contract Award | | | | |
| Estimate By: | Engineering and Planning Division, Baker | | | | |
| | | | | | |
| | | | | | |

PROJECT PICTURE



| PRE-F | /2 4 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|-------|-------------|------|------|------|------|------|---------------|-------|
| 462 | 8 | 718 | 0 | 0 | 0 | 0 | 0 | 5346 |

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

| PI | ROJECT INFORMATION |
|-----------------------|-----------------------------------|
| Project Name: | I-66 Rest Area Sewer Main |
| CIP Number: | SEW-158 |
| JDE Number(s): | 24SBRM0501 |
| 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 PICTURE



| | PROJECT DESCRIPTION |
|----------------------|--|
| Project Description: | Replacement of approximately 350 feet of existing 16-inch gravity sanitary sewer main with an 18-inch gravity sewer main inside a 30-inch casing pipe crossing under I-66. |
| Project Benefit: | The existing gravity sanitary sewer main is showing signs of severe deterioration and has several sags. Replacement shall restore capacity, increase reliability, minimize the potential for a sanitary sewer overflow (SSO), and reduce inflow and infiltration. |
| Source Derivation: | Operations and Maintenance Division; Managed by the Project Management Office. |

PROJECT FUNDING

| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|---------------|-------|
| 65 | 274 | 561 | 1000 | 0 | 0 | 0 | 1900 |

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

| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|--|----------------------|---|
| Project Name: | Sewer Collection Rehabilitation & Replacement Program | Project Description: | Rehabilitation, replacement and/or stabilization of sewer collection system facilities including sewer main and manhole re-lining, isolation and air-release |
| CIP Number: | SEW-200 | | valve repair and replacement, sewer lateral repairs, and other miscellaneous system repairs. Facilities scheduled for rehabilitation during this 5-year CIP |
| JDE Number(s): | Multiple | | period include the re-lining of sewer main in Milroy Drive, Rippon Landing, Old |
| Location: | County Wide | | Triangle Road, Old Bridge Road, Oakwood Drive, Yorktown Drive, Smoketown Road and Paxton Road, in addition to miscellaneous manhole rehabilitation and |
| Pressure Zone: | Multiple | | service line repairs. The timing and execution are subject to change based on operational needs and priorities. |
| Sewershed: | Multiple | | operational needs and priorities. |
| Magisterial District: | Multiple | 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 |
| Project Estimate: | Order of Magnitude | | assets. |
| Estimate By: | Operations and Maintenance Division | Source Derivation: | Operations and Maintenance Division; Managed by the Operations and Maintenance Division. |

PROJECT FUNDING

| PR | E-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----|--------|------|------|------|------|------|---------------|-------|
| | 0 | 600 | 600 | 600 | 600 | 600 | 0 | 3000 |

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



PROJECT PICTURE

WATER RECLAMATION FACILITY PROJECTS





| P | ROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|--|----------------------|--|--|--|--|
| Project Name: | Ongoing Renewal and Replacement | 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 | | | |
| CIP Number: | WRF-123 | | regular wear and asset aging. | | | |
| JDE Number(s): | Multiple | Project Benefit: | Maintain operations, permit compliance, and plant resilience. | | | |
| Location: | H.L. Mooney AWRF | | | | | |
| Pressure Zone: | WL - Woodbridge | Source Derivation: | Environmental Services and Water Reclamation Division; Managed by the Project Management Office. | | | |
| Sewershed: | NE – Neabsco | | | | | |
| Magisterial District: | WB - Woodbridge | | | | | |
| Project Estimate: | Order of Magnitude | | | | | |
| Estimate By: | Environmental Services and Water Reclamation Division | | | | | |
| | | | | | | |



| | PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|---|----------|------|------|------|------|------|------------|-------|
| Ì | 1442 | 400 | 400 | 400 | 400 | 400 | 6200 | 9642 |

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

| PF | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|--|----------------------|--|
| Project Name: | Dynamic Hydraulic Model and Instrumentation | 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 |
| CIP Number: | WRF-126 | | hydraulic improvements. The hydraulic modeling is phased: the first phase from |
| JDE Number(s): | 24NMPP0801, 22NMPP0801 | | plant inlet through primary clarifiers, and then from bioreactor basins to the outfall. The first phase is complete. |
| Location: | H.L. Mooney AWRF | | |
| Pressure Zone: | WL - Woodbridge | Project Benefit: | The model facilitates selection of physical plant improvements to meet hydraulic capacity needs and addresses potential to overflow. |
| Sewershed: | NE – Neabsco | | |
| Magisterial District: | WB - Woodbridge | Source Derivation: | Environmental Services and Water Reclamation Division; Managed by the Project Management Office. |
| Project Estimate: | Order of Magnitude | | - |
| Estimate By: | Environmental Services and Water Reclamation Division | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 665 | 0 | 100 | 200 | 300 | 0 | 0 | 1265 |

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

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|--|----------------------|--|
| Project Name: | FBI and Solids Building Repairs and Modifications | Project Description: | Repair and refurbish 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 |
| CIP Number: | WRF-131 | | condition assessment, solids equipment upgrades, ash basin improvements, new |
| JDE Number(s): | 22NMPP1201, 24NMPP1201 | | heat exchanger, ducts and plenums, and Solids Building modifications, repairs, and refurbishment. |
| Location: | H.L. Mooney AWRF | | |
| Pressure Zone: | WL – Woodbridge | Project Benefit: | Necessary for operational resilience and regulatory compliance for solids handling. |
| Sewershed: | NE – Neabsco | | |
| Magisterial District: | WB – Woodbridge | Source Derivation: | Environmental Services and Water Reclamation Division; Managed by the Project Management Office. |
| Project Estimate: | Order of Magnitude | | |
| Estimate By: | Environmental Services and Water Reclamation Division | | |
| | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 1864 | 480 | 600 | 1650 | 1650 | 650 | 0 | 6894 |

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

| PI | ROJECT INFORMATION | PROJECT DESCRIPTION | | |
|-----------------------|--|----------------------|--|--|
| Project Name: | Bioreactor Basin Improvements | Project Description: | Major bioreactor basin equipment renewal including, but not limited to, mixers, meters, diffusers, baffles, gates, pumps, and blowers. Modification to the | |
| CIP Number: | WRF-134 | | bioreactor basin equipment, instrumentation and controls, and engineering | |
| JDE Number(s): | 24SMPQ0101 | | evaluations and pilot testing, to improve such things as, but not limited to, mixed liquor settling, improve process monitoring and control, adjust biological | |
| Location: | H.L. Mooney AWRF | | reactions, and reduce chemical dosages. Upgrades to blowers including, but not | |
| Pressure Zone: | WL – Woodbridge | | limited to, technology, motors, and various blower components and technology. | |
| Sewershed: | NE – Neabsco | Project Benefit: | Increased operational resilience, permit compliance, and maximization of | |
| Magisterial District: | WB – Woodbridge | | treatment capacity in existing infrastructure. | |
| Project Estimate: | Order of Magnitude | Source Derivation: | Environmental Services and Water Reclamation Division; Managed by the Project | |
| Estimate By: | Environmental Services and Water Reclamation Division | | Management Office. | |

PROJECT FUNDING

| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 1672 | 320 | 345 | 500 | 500 | 500 | 0 | 3837 |

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



PROJECT PICTURE

| Р | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|--|----------------------|---|
| Project Name: | Facility Wide Improvements – Design-Build Project | Project Description: | Project includes improvements to several areas of the plant including: primary clarifier and facility odor control upgrades; primary clarifier collection equipment upgrades; primary clarifier electrical improvements; equalization basin |
| CIP Number: | WRF-138 | | modifications; influent flow diversion structure; UV Building – additional UV |
| JDE Number(s): | 22SMPP0012, 24SMPP0012 | | equipment; yard valve replacement; methanol storage addition; lime system upgrades; ferric system improvements; secondary clarifier improvements; plant |
| Location: | H.L. Mooney AWRF | | structural protection and refurbishment; polymer system replacement; solids |
| Pressure Zone: | WL – Woodbridge | | facilities improvements; headworks capacity improvements; Featherstone SPS force main improvements; and refurbishment of the freight elevators in the |
| Sewershed: | NE – Neabsco | | Control & Process and Solids Handling Buildings. |
| Magisterial District: | WB – Woodbridge | Project Benefit: | This project will provide improved plant reciliency, level of service, and allow the |

Project Benefit:

Source Derivation:

PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET

PROJECT PICTURE

Order of Magnitude

RK&K



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|-------|-------|-------|-------|-------|------------|--------|
| 16083 | 17000 | 48150 | 49186 | 46000 | 46000 | 0 | 222419 |

PROJECT FUNDING

plant to continue to meet its NPDES permit requirements.

Management Office.

This project will provide improved plant resiliency, level of service, and allow the

Environmental Services and Water Reclamation Division; Managed by the Project

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

FY24 – FY28

Project Estimate:

Estimate By:



MISCELLANEOUS PROJECTS

à

(-2-)



| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|--|----------------------|--|
| Project Name: | Water and Sewer Utility System Improvement Opportunity (USIO) | Project Description: | This project provides the funding for the SA to participate in the design and construction of water and sewer infrastructure and appurtenances in conjunction with new development and VDOT/County road projects. This project also covers |
| CIP Number: | MISC-100 | | the cost to increase pipe sizes in accordance with the utility system requirements |
| JDE Number(s): | Multiple | | and studies to provide additional capacity and improve system operations and efficiencies. The funding for this program is allocated evenly between the |
| Location: | County Wide | | Expansion and Replacement funds to account for the undefined betterments; |
| Pressure Zone: | Multiple | | however, each project shall be evaluated independently to determine the appropriate funding allocation. |
| Sewershed: | Multiple | | |
| Magisterial District: | Multiple | Project Benefit: | This project provides for a more efficient and effective way for the timely extension of infrastructure and improvement of system operations. |
| Project Estimate: | Order of Magnitude | | |
| Estimate By: | Engineering and Planning Division | Source Derivation: | Engineering and Planning Division; Managed by the Engineering and Planning Division. |
| | | | |

PROJECT FUNDING

| | PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|---|----------|------|------|------|------|------|------------|-------|
| I | 0 | 1440 | 1600 | 1600 | 1600 | 1600 | 0 | 7840 |

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

PROJECT PICTURE



| | F WCJA CAFTI | | |
|----------------|---|----------------------|--|
| 5 | PROJECT INFORMATION | | PROJECT DESCRIPTION |
| Project Name: | Water & Sewer Facilities Security Enhancements | 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 |
| CIP Number: | MISC-101 | | facilities throughout PWC. Security enhancements include, but are not limited, to |
| JDE Number(s): | 24NCWU0004, 74WHOF0001, 74NLRS0001 | | fencing, security cameras, card readers, security gates, signage, security guards, bollards, locks, barriers, berms, lighting, alarms, and IT enhancements. |
| Location: | County Wide | | |
| Prossure Zone: | Multiplo | Project Benefit: | This project will provide protection against unauthorized entry, vandalism, and/or |

Source Derivation:

PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHEET

PROJECT PICTURE

Order of Magnitude

Operations and Maintenance Division

Multiple

Multiple

Multiple



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 0 | 585 | 410 | 420 | 450 | 410 | 0 | 2275 |

PROJECT FUNDING

enhancement program.

destruction of facilities. The enhancements will serve to minimize potential

threats to the water distribution, sewer collection systems, wastewater treatment facility and help prevent endangerment of employees and the general public. This

project will comply with the Federal Mandate for security audit and security

Federal Mandate of Vulnerability Study for Utility Systems, Operations and

Maintenance; Managed by the Operations and Maintenance Division.

| Proposed Fu | nding Sources |
|--|---------------|
| Exp. Fund (02) – Availability Fees | - |
| Commit. Fund (03) – Availability Fees | - |
| Repl. Fund (04) – User Rates | 100% |
| Other Contrib. – Development Contributions | - |
| PROJECT TOTAL | 100% |

FY24 – FY28

Pressure Zone:

Magisterial District:

Project Estimate:

Estimate By:

Sewershed:

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|--|----------------------|---|
| Project Name: | Wellington Road Operations Center Expansion | Project Description: | Design and construction of approximately a 26,000 square foot Operations Center Building with a 13,000 square foot mezzanine and storage sheds on the Wellington Operations Center property. Proposed site improvements include the |
| CIP Number: | MISC-102 | | relocation of an existing storm water management pond for better space |
| JDE Number(s): | 12NWCH0001, 14NWCH0001 | | utilization, more parking spaces, and additional fuel and material storage. Additionally, the project shall assess the flow of traffic around the facility and |
| Location: | Virginia Meadows Industrial Park | | propose improvements as necessary. |
| Pressure Zone: | GW – Gainesville | Project Benefit: | Improve working conditions and efficiency by providing additional space for |
| Sewershed: | BR – Broad Run | | construction vehicles, materials, fuel for emergency response, day-to-day |
| Magisterial District: | BR – Brentsville | | maintenance, repair, and inspection operations. The project will also improve the flow of traffic through the property. |
| Project Estimate: | Order of Magnitude | | |
| Estimate By: | RDA, Engineering and Planning Division | Source Derivation: | Engineering and Planning Division, Operations and Maintenance Division, General Conditions Facility Assessment, 2009; Managed by the Project Management Office. |

PROJECT FUNDING



PROJECT PICTURE

| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 629 | 1500 | 4500 | 6500 | 3533 | 0 | 0 | 16662 |

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

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|-------------------------------------|----------------------|---|
| Project Name: | Facilities Renewals and Upgrades | Project Description: | Space improvements to accommodate staff needs at the Spittle Building and for improvements and modifications at other facilities owned by the SA. |
| CIP Number: | MISC-103 | | |
| JDE Number(s): | 24NWCU0002, 74NGWH0001, 24NSCU0102 | 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 |
| Location: | County Wide | | costs, and ensure a safe and comfortable work environment for SA staff. |
| Pressure Zone: | Multiple | Source Derivation: | Engineering and Planning Division; Managed by the Operations and Maintenance |
| Sewershed: | Multiple | | Division. |
| Magisterial District: | Multiple | | |
| Project Estimate: | Order of Magnitude | | |
| Estimate By: | Operations and Maintenance Division | | |
| | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 159 | 200 | 200 | 200 | 200 | 200 | 200 | 1359 |

| Proposed Fu | nding Sources |
|--|---------------|
| Exp. Fund (02) – Availability Fees | - |
| Commit. Fund (03) – Availability Fees | - |
| Repl. Fund (04) – User Rates | 100% |
| Other Contrib. – Development Contributions | - |
| PROJECT TOTAL | 100% |

| PI | ROJECT INFORMATION | PROJECT DESCRIPTION | | | |
|-----------------------|---------------------------------------|----------------------|---|--|--|
| Project Name: | Administrative Office Space Expansion | Project Description: | Space planning, design and construction of additional office space to accommodate the current and future space needs of the SA. This project will | | |
| CIP Number: | MISC-112 | | recommend potential location for expansions. | | |
| JDE Number(s): | 12NSCH0009, 14NSCH0009 | Project Benefit: | This project shall improve the functionality of SA facilities by providing additional | | |
| Location: | TBD | | space for staff, reduce energy costs, and ensure a safe and comfortable work | | |
| Pressure Zone: | TBD | | environment for SA staff. | | |
| Sewershed: | TBD | Source Derivation: | Engineering and Planning Division; Managed by the Engineering and Planning | | |
| Magisterial District: | TBD | | Division and Project Management Office. | | |
| Project Estimate: | PER | | | | |
| Estimate By: | Engineering and Planning Division | | | | |
| | | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 951 | 135 | 600 | 500 | 3500 | 6000 | 9100 | 20786 |

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

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|-----------------------------------|----------------------|---|
| Project Name: | System Wide Master Plan | Project Description: | Preparation of a comprehensive, system-wide master plan that includes sewer collection, wastewater treatment, water distribution, and water source and |
| CIP Number: | MISC-114 | | supply options. This study covers the evaluation of existing systems and shall |
| JDE Number(s): | 22NCWE0101 | | provide recommendations on system improvements necessary to meet future projected demands and regulatory requirements. This project accounts for the |
| Location: | County Wide | | capitalized portion of the Master Plan cost with the balance covered in the |
| Pressure Zone: | Multiple | | operational budget. Also included is an addendum to evaluate changes to the PWC Comprehensive Plan in December 2022. |
| Sewershed: | Multiple | | |
| Magisterial District: | Multiple | Project Benefit: | The goal of this study is to establish long range utility needs in order to maintain service levels to existing customers and to plan for meeting future growth and |
| Project Estimate: | Contract Award | | demand. |
| Estimate By: | Engineering and Planning Division | Source Derivation: | Engineering and Planning Division, Environmental Services and Water Reclamation Division; Managed by the Engineering and Planning Division and Project Management Office. |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 600 | 185 | 0 | 0 | 0 | 250 | 0 | 1035 |

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

| P | PROJECT INFORMATION | | PROJECT DESCRIPTION |
|-----------------------|--|----------------------|--|
| Project Name: | English Gardens Property Building & Site Improvements | Project Description: | Design and construction of a new centralized auxiliary and operations building with associated infrastructure, plus the demolition of an existing onsite building. |
| CIP Number: | MISC-116 | Project Benefit: | This project will improve the functionality of SA facilities by providing additional |
| JDE Number(s): | 12NCWH0101, 14NCWH0101 | | and redefined space for staff and ensure a safe and comfortable work environment for SA staff. |
| Location: | 14195 Dumfries Rd. | | |
| Pressure Zone: | OR – Oak Ridge | Source Derivation: | Engineering and Planning Division; Managed by the Project Management Office. |
| Sewershed: | PC – Powells Creek | | |
| Magisterial District: | CO – Coles | | |
| Project Estimate: | Order of Magnitude | | |
| Estimate By: | Engineering and Planning Division | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|-------|-------|------------|-------|
| 88 | 850 | 1850 | 8000 | 12027 | 29054 | 0 | 51869 |

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

| P | ROJECT INFORMATION | | | | PROJECT D | ESCRIPTIO | N | | | | |
|------------------------------|---|----------------------|-----------------|--|-----------------------------------|-----------------|---------------|--------------|------------|--|--|
| Project Name: CIP Number: | Studies and PER's – Organization Wide MISC-117 | Project Description: | | This project provides the funding for studies and preliminary engineering repor (PER's) organization-wide to evaluate existing business systems or facility asset and provide recommendations on improvements, upgrades, or replacements a necessary to increase efficiencies, improve employee safety, meet future | | | | | | | |
| JDE Number(s): | Multiple | | | projected dem | | | | | | | |
| Location: | County Wide | Project Be | nefit: | The goal of the | se studies is t | o identify alte | ernatives for | improvements | to move in | | |
| Pressure Zone: | Multiple | , , | | detailed design | n to maintair | service leve | | | | | |
| Sewershed: | Multiple | | | | meeting future growth and demand. | | | | | | |
| Magisterial District: | Multiple | | | | | | | | | | |
| Project Estimate: | oject Estimate: Order of Magnitude | | rivation: | Engineering an | d Planning Di | vision | | | | | |
| | PROJECT PICTURE | | | | PROJECT | FUNDING | | | | | |
| Catt | harpin | PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL | | |
| Gaine | - hu | 0 | 700 | 700 | 700 | 700 | 700 | 0 | 3500 | | |
| | Bristow | | | | Proposed Fu | nding Sources | | | | | |
| | Nekonville | Ехр | . Fund (02) – A | Availability Fees | | | 50% | ,) | | | |
| | woodbridge | | - | 8) – Availability Fe | es | - | | | | | |
| Dale City Triangle | | | l. Fund (04) – | | | 50% | | | | | |
| | | Oth | | Development Cont | ributions | | - | | | | |
| | | | PROJECT TOTAL | | | | 100% | | | | |

| PI | ROJECT INFORMATION | PROJECT DESCRIPTION | | | |
|-----------------------|--------------------------------|----------------------|---|--|--|
| Project Name: | Nottoway Tank Site Development | Project Description: | Site preparation and construction to accommodate material storage on the Nottoway Tank site property. This project includes general site and security | | |
| CIP Number: | MISC-118 | | improvements. | | |
| JDE Number(s): | 22WLRT0201, 24WLRT0201 | Project Benefit: | Improve working efficiency by providing additional operational space for stored | | |
| Location: | 2011 Horner Road, Woodbridge | , | materials for emergency response, day-to-day maintenance, repair, and general | | |
| Pressure Zone: | Lake Ridge | | east end operations. | | |
| Sewershed: | Belmont | | | | |
| Magisterial District: | WD - Woodbridge | Source Derivation: | Operations and Maintenance Division; Managed by the Project Management Office. | | |
| Project Estimate: | Order of Magnitude | | | | |
| Estimate By: | Project Management Office | | | | |
| | | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 0 | 200 | 600 | 0 | 0 | 0 | 0 | 800 |

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

| OJECT INFORMATION | PROJECT DESCRIPTION | | | |
|-------------------------------------|--|---|--|--|
| Vehicle Replacement Program | Project Description: | The SA operates and maintains a fleet of vehicles in order to provide service to its | | |
| MISC-200 | | customers. In addition, the SA evaluates each vehicle annually and retains vehicles that are still in good condition regardless of the replacement criteria. Vehicles | | |
| Multiple | | identified for replacement over the next two years include tandem-axle flat beds, small high-side dump trucks, closed-circuit television vehicles, hydro-excavator | | |
| County Wide | | trucks, sport utility vehicles, and various equipped full and mid-sized pick-up | | |
| Multiple | | trucks. | | |
| Multiple | Project Benefit: | This program provides guidelines for vehicle replacement that balances safety, | | |
| Multiple | | reliability, capital costs, and maintenance costs. | | |
| Order of Magnitude | Source Derivation: | Operations and Maintenance Division; Managed by the Operations and | | |
| Operations and Maintenance Division | | Maintenance Division. | | |
| | Vehicle Replacement Program MISC-200 Multiple County Wide Multiple Multiple Multiple Order of Magnitude | Vehicle Replacement ProgramProject Description:MISC-200 | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 0 | 1983 | 1075 | 1400 | 1400 | 1665 | 0 | 7523 |

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

| PI | ROJECT INFORMATION | PROJECT DESCRIPTION | | | | | |
|-----------------------|---|----------------------|--|--|--|--|--|
| Project Name: | Mechanical Equipment Replacement Program | 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. | | | | |
| CIP Number: | MISC-201 | | These items include but are not limited to pumping units, channel grinders, HVAC units, variable frequency drives, and reduced voltage solid state starters. | | | | |
| JDE Number(s): | Multiple | Project Benefit: | Reaching performance targets, compliance with regulatory requirements, | | | | |
| Location: | County Wide | | maximization of the return on capital, and increased stakeholder value. | | | | |
| Pressure Zone: | Multiple | Source Derivation: | Operations and Maintenance Division; Managed by the Operations and | | | | |
| Sewershed: | Multiple | | Maintenance Division. | | | | |
| Magisterial District: | Multiple | | | | | | |
| Project Estimate: | Order of Magnitude | | | | | | |
| Estimate By: | Operations and Maintenance Division | | | | | | |
| | | | | | | | |



| ſ | PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|---|----------|------|------|------|------|------|------------|-------|
| I | 0 | 2210 | 3176 | 2866 | 2489 | 2670 | 0 | 13411 |

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

| | PWCSA CAPIT | AL IIVIPROVE | | RUJECT DATA | | | | | | |
|---|---|--------------|--|---|---|--|---|---|----------------------------|--|
| P | ROJECT INFORMATION | | | | PROJECT D | ESCRIPTIO | V | | | |
| Project Name: CIP Number: IDE Number(s): Location: | Computer and Other Replacement Program MISC-202 Multiple County Wide | Project Desc | ription: | Purchase or re with a cost va duties, fulfill c These items ir phone systems | alue of \$5,00 sustomer requinclude softwa | 0 or greater uirements an are, server ar | required for d enhance tl d network h | SA operation ne cybersecuri ardware, netv | s to perfor ity program | |
| Pressure Zone: Sewershed: | Multiple Multiple | Project Bene | fit: | Replaces hardware and other miscellaneous capital equipment that approaching the end of its service life within the next 15 months. | | | | | | |
| Magisterial District: Project Estimate: | Multiple Order of Magnitude | Source Deriv | ation: | Management a the Informatio | | | nation Techn | ology Division; | Managed | |
| Estimate By: | Management and Budget Division | | | | | | | | | |
| | PROJECT PICTURE | | | | PROJECT | FUNDING | | | | |
| Cati | narpin | PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL | |
| Gaine | · • 22 | 0 | 1200 | 1200 | 1550 | 1550 | 600 | 0 | 6100 | |
| | Proposed Funding Sources | | | | | | | | | |
| / | Exp. Fund (02) – Availability Fees | | | | - | | | | | |
| | Commit | . Fund (03) | – Availability Fees | 6 | - | | | | | |
| | Dale City | | nd (04) – U | | | | 100 | % | | |
| | Marine P | Other Co | Other Contrib. – Development Contributions | | | | - | | | |

PROJECT TOTAL

Triangle

100%

| PWCSA CAPITAL IMPROVEMENT PROJECT DATA SHE | ET |
|--|----|
|--|----|

| PROJECT INFORMATION | | | PROJECT DESCRIPTION | | | | | | | | |
|-----------------------|--|------------------------------|---------------------|--|--|---------------|------|------------|-------|--|--|
| Project Name: | Major Facility Rehabilitation Program | Project Desc | ription: | Major rehabili components at | | | | | | | |
| CIP Number: | MISC-203 | | | components at existing sewage pumping stations and water booster stations. | | | | | | | |
| JDE Number(s): | Multiple | Project Benefit: | | Preserves and extends the economic life of each facility. In addition, this project improves the functionality of SA facilities by maintaining operational integrity and | | | | | | | |
| Location: | County Wide | | | reliability. | | | | | | | |
| Pressure Zone: | Multiple | Source Derivation: | | Operations & Maintenance Division; Managed by the Project Management Offic | | | | | | | |
| Sewershed: | Multiple | Source Berry | Source Derivation: | | operations & maintenance prosion, managed by the Project management of | | | | | | |
| Magisterial District: | Multiple | | | | | | | | | | |
| Project Estimate: | Order of Magnitude | | | | | | | | | | |
| Estimate By: | Project Management Office | | | | | | | | | | |
| 5 | | PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL | | |
| ∫ Cat | harpin | 0 | 1260 | 3000 | 2750 | 2000 | 750 | 0 | 9760 | | |
| Gaine | 1. Ale | | 1 | | Proposed Fu | nding Sources | L | | | | |
| | Bristow | | | ailability Fees | | - | | | | | |
| | Nokesville Dale | Commit | Fund (03) · | – Availability Fees | 5 | | - | | | | |
| | | Repl. Fund (04) – User Rates | | | | 100 | % | | | | |
| | Other Contrib. – Development Contributions | | | | - | | | | | | |
| | Triangle | | | PROJECT TOTAL | | | | 100% | | | |

INFORMATION TECHNOLOGY PROJECTS



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

PROJECT PICTURE



| | 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, budget forecasting, and Procure to Pay functionality. |
| Source Derivation: | Information Technology Division; Managed by the Information Technology Division. |
| | |

| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 829 | 0 | 250 | 250 | 0 | 0 | 0 | 1329 |

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

| P | ROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|---------------------------------|----------------------|--|--|--|--|
| Project Name: | Cayenta – CIS | Project Description: | | | | |
| CIP Number: | IT-106 | | project involves upgrading Cayenta to Version 9 and replacing the Customer Self Service system components and deploying new customer-focused functionality. | | | |
| JDE Number(s): | 14NSCG0110 | | , | | | |
| Location: | County Wide | Project Benefit: | This project shall improve the SA customer experience by replacing the curr bill-pay site with a modern, mobile-ready, customer portal. Additionally, | | | |
| Pressure Zone: | Multiple | | project includes upgrades to the Cayenta CIS for improved system reliability and | | | |
| Sewershed: | Multiple | | capabilities. | | | |
| Magisterial District: | Multiple | Source Derivation: | Information Technology Division; Managed by the Information Technology | | | |
| Project Estimate: | Order of Magnitude | | Division. | | | |
| Estimate By: | Information Technology Division | | | | | |

PROJECT PICTURE



PRE-FY24 POST- FY28 TOTAL FY24 FY25 FY26 FY27 FY28 402 250 0 250 200 0 0 1102

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

| P | ROJECT INFORMATION | PROJECT DESCRIPTION | | | | |
|-----------------------|---|----------------------|---|--|--|--|
| Project Name: | Computerized Maintenance Management System (CMMS) Implementation | Project Description: | This project expands the implementation of Cityworks to provide inventory management for SA warehousing processes and work order management | | | |
| CIP Number: | IT-107 | | functionality for H.L. Mooney AWRF assets. | | | |
| JDE Number(s): | 14NAAG0112 | Project Benefit: | Implementation of Cityworks to manage work performed on assets at H | | | |
| Location: | County Wide | | Mooney AWRF shall place maintenance performed on the SA's collection, distribution, and facility assets in a single GIS-centric business system which | | | |
| Pressure Zone: | Multiple | | improves operational insights and reporting to support data-driven decision | | | |
| Sewershed: | Multiple | | making. | | | |
| Magisterial District: | Multiple | Source Derivation: | Information Technology Division, Operations and Maintenance Division; Managed | | | |
| Project Estimate: | Order of Magnitude | | by the Information Technology Division. | | | |
| Estimate By: | Information Technology Division | | | | | |
| | | | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 532 | 1450 | 560 | 620 | 125 | 0 | 0 | 3287 |

PROJECT FUNDING

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

| PROJECT INFORMATION | | | PROJECT DESCRIPTION | | | |
|-----------------------|--|----------------------|---|--|--|--|
| Project Name: | Document Management System Implementation | 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. | | | |
| CIP Number: | IT-110 | Project Benefit: | A document management system shall provide a governed, central repository to store the organization's documents and improve document retrieval | | | |
| JDE Number(s): | Not Assigned | | | | | |
| Location: | County Wide | | Additionally, the Document Management System will provide improved cont of document versioning and collaboration. | | | |
| Pressure Zone: | Multiple | | | | | |
| Sewershed: | Multiple | Source Derivation: | Information Technology Division; Managed by the Information Technology Division. | | | |
| Magisterial District: | Multiple | | | | | |
| Project Estimate: | Order of Magnitude | | | | | |
| Estimate By: | Information Technology Division | | | | | |
| | | | | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 200 | 1560 | 420 | 275 | 125 | 0 | 0 | 2580 |

PROJECT FUNDING

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

| PROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|---------------------------------|----------------------|--|--|--|
| Project Name: | Vertical Asset Data Development | Project Description: | Development of a GIS vertical asset register in support of work-order management | | |
| CIP Number: | IT-117 | | (CMMS) and Asset Management Analytics. This project includes discovery, planning, database development, and data capture. | | |
| JDE Number(s): | 14NAAG0240 | | | | |
| Location: | County Wide | Project Benefit: | GIS vertical asset data shall enable effective use of the SA's CMMS system f assets located within the H.L. Mooney AWRF and WWF facilities. Additional | | |
| Pressure Zone: | Multiple | | vertical asset data shall enable data-driven asset management planning. | | |
| Sewershed: | Multiple | Source Derivation: | Data Management Division; Managed by the Data Management Division. | | |
| Magisterial District: | Multiple | | | | |
| Project Estimate: | Order of Magnitude | | | | |
| Estimate By: | Data Management Division | | | | |
| | | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 248 | 365 | 50 | 0 | 0 | 0 | 0 | 663 |

PROJECT FUNDING

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

| CIP Number:IT-118Boomi in alignment with the SA technology strategy and reduces total cost ownership.JDE Number(s):14NAAG0230Location:County WidePressure Zone:MultipleSewershed:MultipleMagisterial District:MultipleProject Estimate:Order of Magnitude | PF | OJECT INFORMATION | PROJECT DESCRIPTION | | | |
|--|-----------------------|--------------------------|----------------------|--|--|--|
| CIP Number:IT-118ownership.JDE Number(s):14NAAG0230Location:County WidePressure Zone:MultipleSewershed:MultipleMultipleMagisterial District:MultipleProject Estimate:Order of Magnitude | Project Name: | System Integration | Project Description: | This project modernizes existing legacy, point-to-point system integrations to Dell | | |
| Location:County WideProject Benefit:Successful implementation of mature analytics that support data-driven decise making relies on the ability to efficiently access critical data stored in multi business systems across the enterprise. This project shall provide a scalad consistent approach to integrating business systems, automate man workflows, and improve analytics and reporting capabilities.Nagisterial District:MultipleSource Derivation:Data Management Division; Managed by the Data Management Division. | CIP Number: | IT-118 | | | | |
| Location:County Widemaking relies on the ability to efficiently access critical data stored in multi business systems across the enterprise. This project shall provide a scalal consistent approach to integrating business systems, automate man workflows, and improve analytics and reporting capabilities.Project Estimate:Order of MagnitudeSource Derivation:Data Management Division; Managed by the Data Management Division. | JDE Number(s): | 14NAAG0230 | | | | |
| Sewershed:Multipleconsistent approach to integrating business systems, automate man workflows, and improve analytics and reporting capabilities.Magisterial District:MultipleSource Derivation:Data Management Division; Managed by the Data Management Division.Project Estimate:Order of MagnitudeSource Derivation:Data Management Division; Managed by the Data Management Division. | Location: | County Wide | Project Benefit: | Successful implementation of mature analytics that support data-driven decis making relies on the ability to efficiently access critical data stored in multi | | |
| Sewershed:Multipleworkflows, and improve analytics and reporting capabilities.Magisterial District:MultipleSource Derivation:Data Management Division; Managed by the Data Management Division.Project Estimate:Order of MagnitudeSource Derivation:Data Management Division; Managed by the Data Management Division. | Pressure Zone: | Multiple | | business systems across the enterprise. This project shall provide a scalable, | | |
| Project Estimate: Order of Magnitude Source Derivation: Data Management Division; Managed by the Data Management Division. | Sewershed: | Multiple | | consistent approach to integrating business systems, automate manual workflows, and improve analytics and reporting capabilities. | | |
| Project Estimate: Order of Magnitude | Magisterial District: | Multiple | | | | |
| Estimate By: Data Management Division | Project Estimate: | Order of Magnitude | Source Derivation: | Data Management Division; Managed by the Data Management Division. | | |
| | Estimate By: | Data Management Division | | | | |

PRE-FY24

1338

75

150

PROJECT PICTURE



FY24 FY25 FY26 FY27 FY28 POST- FY28 TOTAL

37

0

0

PROJECT FUNDING

75

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

1675

| CIP Number:IT-121data-driven asset management planning.JDE Number(s):14NAAG0280Project Benefit:Enterprise-wide asset management analytics affords the SA the ability to work from an organization-wide perspective, understand cross-div dependencies and priorities, and develop data-driven asset management planning.Location:County WideProject Benefit:Enterprise-wide asset management analytics affords the SA the ability to work from an organization-wide perspective, understand cross-div dependencies and priorities, and develop data-driven asset management planning.Pressure Zone:MultipleSewershed:MultipleMagisterial District:MultipleProject Estimate:Order of Magnitude | PF | ROJECT INFORMATION | PROJECT DESCRIPTION | | | |
|--|-----------------------|----------------------------|----------------------|--|--|--|
| CIP Number:IT-121JDE Number(s):14NAAG0280Location:County WidePressure Zone:MultipleSewershed:MultipleMultipleSource Derivation:Project Estimate:Order of Magnitude | Project Name: | Asset Management Analytics | Project Description: | Development of the frameworks, standards, processes, and tools necessary | | |
| Location:County Widework from an organization-wide perspective, understand cross-divide dependencies and priorities, and develop data-driven asset management priorities and generation:work from an organization-wide perspective, understand cross-divide dependencies and priorities, and develop data-driven asset management priorities and generation:Work from an organization-wide perspective, understand cross-divide dependencies and priorities, and develop data-driven asset management priorities and generation:Data Management Division; Managed by the Data Management Division.Sewershed:MultipleData Management Division; Managed by the Data Management Division.Magisterial District:MultipleData Management Division; Managed by the Data Management Division.Project Estimate:Order of MagnitudeOrder of Magnitude | CIP Number: | IT-121 | | data-driven asset management planning. | | |
| Location:County Widedependencies and priorities, and develop data-driven asset management pPressure Zone:MultipleSource Derivation:Data Management Division; Managed by the Data Management Division.Sewershed:MultipleMultipleData Management Division; Managed by the Data Management Division.Project Estimate:Order of MagnitudeOrder of MagnitudeOther Magnitude | JDE Number(s): | 14NAAG0280 | Project Benefit: | Enterprise-wide asset management analytics affords the SA the ability to plan | | |
| Pressure Zone:MultipleSewershed:MultipleMagisterial District:MultipleOrder of MagnitudeEndert | Location: | t ion: County Wide | | work from an organization-wide perspective, understand cross-divisi- dependencies and priorities, and develop data-driven asset management plar | | |
| Sewershed: Multiple Magisterial District: Multiple Project Estimate: Order of Magnitude | Pressure Zone: | Multiple | | | | |
| Project Estimate: Order of Magnitude | Sewershed: | Multiple | Source Derivation: | Data Management Division; Managed by the Data Management Division. | | |
| | Magisterial District: | Multiple | | | | |
| Estimate By: Data Management Division | Project Estimate: | Order of Magnitude | | | | |
| | Estimate By: | Data Management Division | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 222 | 215 | 600 | 175 | 0 | 0 | 0 | 1212 |

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

| PI | ROJECT INFORMATION | PROJECT DESCRIPTION | | |
|-----------------------|--|----------------------|--|--|
| Project Name: | Project Management Information System (PMIS) Implementation | Project Description: | Continue implementation of a Project Management Information System (PMIS) to automate procurement and contracts workflows, document and project | |
| CIP Number: | CIP Number: IT-122 | | management, and financial reporting associated with construction related projects. Work performed under this project shall expand system functionality | |
| JDE Number(s): | 14NAAG0290 | | delivered as part of PMIS Implementation Phase I. | |
| Location: | County Wide | Project Benefit: | A PMIS shall provide a systematic approach to managing projects across all phases | |
| Pressure Zone: | Multiple | - | of the project life cycle from planning to project close-out. A PMIS will also afford | |
| Sewershed: | Multiple | | the SA the ability to manage project documentation, schedules, and costs more efficiently. | |
| Magisterial District: | Multiple | | | |
| Project Estimate: | Order of Magnitude | Source Derivation: | Information Technology Division; Managed by the Information Technology Division. | |
| Estimate By: | Information Technology Division | | | |
| | | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 1474 | 175 | 475 | 127 | 64 | 0 | 0 | 2315 |

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

| PI | ROJECT INFORMATION | PROJECT DESCRIPTION | | | |
|-----------------------|---------------------------------|----------------------|--|--|--|
| Project Name: | Network Security Upgrades | Project Description: | As part of PWCSA's Organizational Strategic Plan and IT's Strategic Plan, this | | |
| CIP Number: | IT-125 | | project will enhance the operational technology and IT network cybersecurity by deploying specific security technology to improve resiliency and defenses. | | |
| JDE Number(s): | 14NSCG0401 | | | | |
| Location: | County Wide | Project Benefit: | This project will implement technology to improve cybersecurity defenses and a additional resiliency to the current solution. | | |
| Pressure Zone: | Multiple | | | | |
| Sewershed: | Multiple | Source Derivation: | Information Technology Division; Managed by the Information Technology | | |
| Magisterial District: | Multiple | | Division. | | |
| Project Estimate: | Order of Magnitude | | | | |
| Estimate By: | Information Technology Division | | | | |
| | | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 0 | 150 | 150 | 100 | 100 | 0 | 0 | 500 |

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

| PR | OJECT INFORMATION | PROJECT DESCRIPTION | | | | |
|-----------------------|---------------------------------|----------------------|--|--|--|--|
| Project Name: | SCADA System Upgrade | Project Description: | As part of the SA's Organizational Strategic Plan and IT's Strategic Plan, this project | | | |
| CIP Number: | IT-126 | | involves planning, design, deployment, and owner services for the replacement of the SA's legacy SCADA system. | | | |
| JDE Number(s): | 14NCWC0101 | | | | | |
| Location: | County Wide | Project Benefit: | This project replaces obsolete SCADA equipment with current technolo improved SCADA system reliability and security, automation of manual pro | | | |
| Pressure Zone: | Multiple | | and real-time monitoring and reporting. | | | |
| Sewershed: | Multiple | Source Derivation: | Information Technology Division; Managed by the Project Management Office. | | | |
| Magisterial District: | Multiple | | | | | |
| Project Estimate: | Order of Magnitude | | | | | |
| Estimate By: | Information Technology Division | | | | | |
| | | | | | | |

PRE-FY24

2161

4838

5283

PROJECT PICTURE



| FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|------|------|------|------|------|------------|-------|

5262

0

0

5068

PROJECT FUNDING

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

FY24 – FY28

22612

| PI | ROJECT INFORMATION | | PROJECT DESCRIPTION | | | |
|-----------------------|--|----------------------|--|--|--|--|
| Project Name: | Web Content Management System Migration | 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 | | | |
| CIP Number: | IT-128 | | System (CMS) and modernize design of the public-facing website. | | | |
| JDE Number(s): | Multiple | Project Benefit: | Migrating content on the SA's three websites to the newer version of the CMS is | | | |
| Location: | County Wide | | imperative as technical service of the current version of the software will b discontinued in November 2022. Websites running on older versions of the | | | |
| Pressure Zone: | Multiple | | platform may be flagged as insecure during third-party scans. The newer version | | | |
| Sewershed: | Multiple | | of CMS will strengthen the security of the websites and enhance front-end users' experiences. | | | |
| Magisterial District: | Multiple | | | | | |
| Project Estimate: | Order of Magnitude | Source Derivation: | Information Technology Division; Managed by the Information Technology Division. | | | |
| Estimate By: | Information Technology Division | | | | | |
| | | | | | | |



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 166 | 209 | 0 | 0 | 0 | 0 | 0 | 375 |

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

| PROJECT INFORMATION | | | PROJECT DESCRIPTION | | | |
|-----------------------|---------------------------------|----------------------|--|--|--|--|
| Project Name: | Enterprise Resource Planning | Project Description: | This project will provide an integrated, modern financial information system, | | | |
| CIP Number: | IT-129 | | Customer Billing Information System and its related business software stack. | | | |
| JDE Number(s): | Not Assigned | | | | | |
| Location: | County Wide | Project Benefit: | The new integrated Financial and Customer Service Systems will provide service to both internal users and ratepayers, comply with the National Ins of Standards and Technology Guidelines and improve data security. | | | |
| Pressure Zone: | Multiple | | | | | |
| Sewershed: | Multiple | Source Derivation: | Information Technology Division; Managed by the Information Technology | | | |
| Magisterial District: | Multiple | | Division. | | | |
| Project Estimate: | Order of Magnitude | | | | | |
| Estimate By: | Information Technology Division | | | | | |
| | | | | | | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|------|------|------------|-------|
| 0 | 0 | 2500 | 5000 | 3500 | 0 | 0 | 11000 |

PROJECT FUNDING

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





| PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|---|----------------------|---|--|
| Project Name: | Occoquan River Crossing | Project Description: | Design and construction of dual 700-foot long 42-inch steel water mains within a | |
| CIP Number: | REG-1 | | 400-foot long tunnel, 2,400 feet of 36-inch water main for redundancy to an existing transmission main, and an additional finished water pump at Fairfax | |
| JDE Number(s): | 22WFWM8104, 24WFWM8104 | | Water's Griffith Water Treatment Plant to facilitate a new subaqueous crossing | |
| Location: | Eastern PWC, Occoquan River | | of the Occoquan River. This project also includes the replacement of a deficient segment of existing 24-inch water main and a new interconnection near Horner | |
| Pressure Zone: | Eastern Water System | | Road along the transmission main corridor in Prince William County. This project | |
| Sewershed: | Multiple | | will connect transmission facilities on either side of the river that supply the SA's Eastern Water System and three proposed Eastern Area control valve vaults. | |
| Magisterial District: | Multiple | | | |
| Project Estimate: | OPCC | Project Benefit: | This new transmission main will replace the aging, pressure restricted 30-inch concrete pipe that has been in service for over 60 years. This transmission main | |
| Estimate By: | Fairfax Water and the Engineering and Planning Division | | shall also increase capacity and enhance system reliability and availability for SA customers in the Eastern Water System. | |
| | | Source Derivation: | Engineering and Planning Division; Managed by Fairfax Water and coordinated at the Service Authority by the Project Management Office. | |

PROJECT PICTURE



| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|-------|-------|------|------|------|------------|-------|
| 6617 | 12566 | 12566 | 0 | 0 | 0 | 0 | 31749 |

PROJECT FUNDING

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

| PROJECT INFORMATION | | PROJECT DESCRIPTION | | |
|-----------------------|-----------------------------|----------------------|--|--|
| Project Name: | UOSA Expansion – Project 60 | Project Description: | This project is for the SA's portion of costs associated with the planned | |
| CIP Number: | REG-2 | | expansion of sewage treatment capacity from 54 MGD to 60 MGD at the UOSA AWRF plant in Fairfax County. The capacity increase is based on growth | |
| JDE Number(s): | Not assigned | | projections in conformance with the land use policies in the PWC Comprehensive | |
| Location: | Fairfax County | | Plan prior to the December 2022 revisions. Costs cover adding secondary treatment capacity, adding sidestream ammonia treatment, and expansion of | |
| Pressure Zone: | Multiple | | chlorination and dechlorination facilities. | |
| Sewershed: | Multiple | Project Benefit: | The goal of this project is to accommodate the continued increase in wastewate flows from new commercial and residential development in the areas tributa | |
| Magisterial District: | N/A | | | |
| Project Estimate: | Order of Magnitude | | to this regional AWRF. | |
| Estimate By: | UOSA | Source Derivation: | UOSA Master Plan, 2020; Managed by UOSA and coordinated by the Project Management Office. | |

PROJECT FUNDING

| PRE-FY24 | FY24 | FY25 | FY26 | FY27 | FY28 | POST- FY28 | TOTAL |
|----------|------|------|------|-------|-------|------------|-------|
| 0 | 0 | 3100 | 7900 | 24400 | 24400 | 24400 | 84200 |

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



PROJECT PICTURE

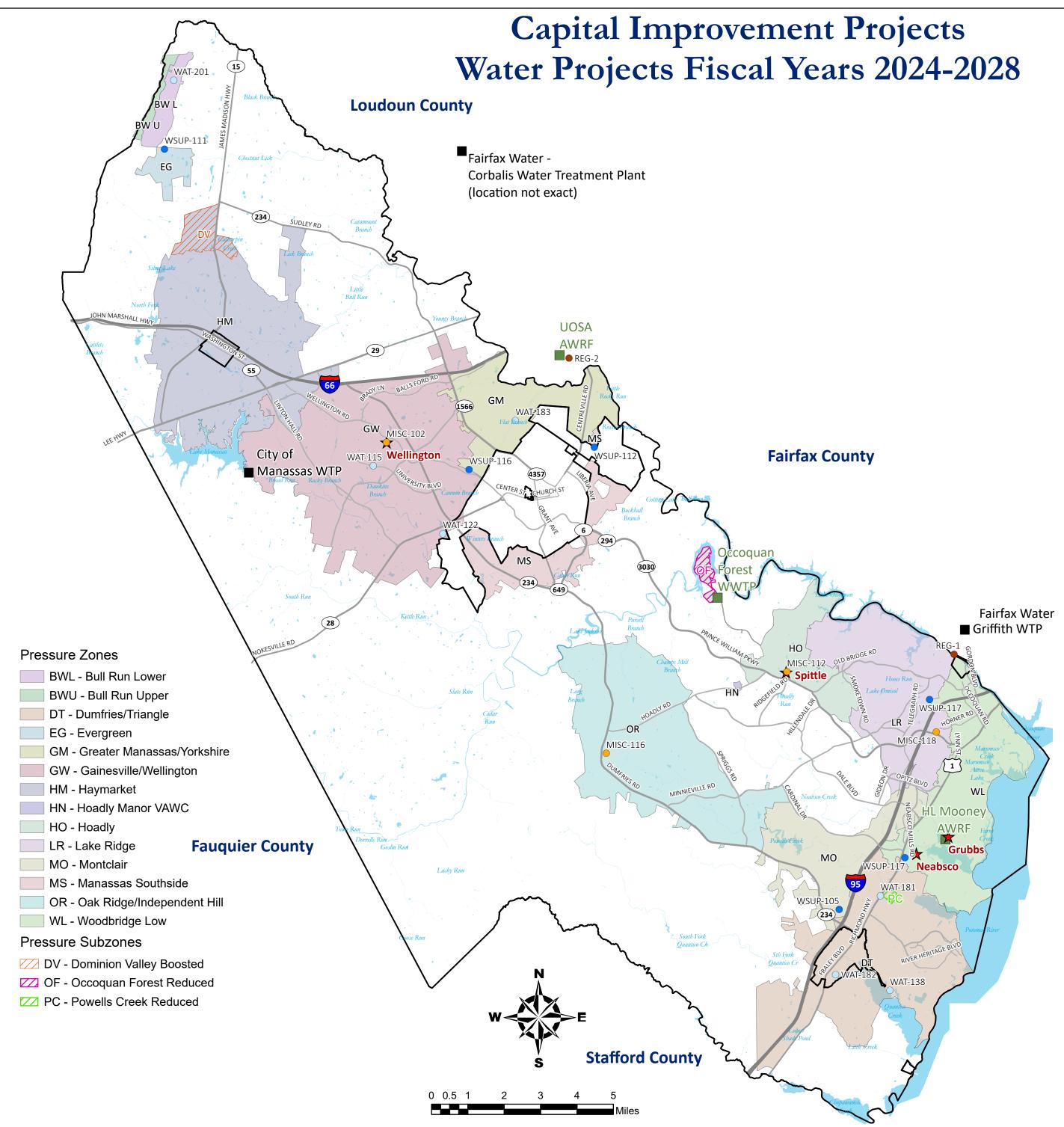
CAPITAL IMPROVEMENT PROGRAM FISCAL YEARS 2024 - 2028





SECTION C

PROJECT MAPS





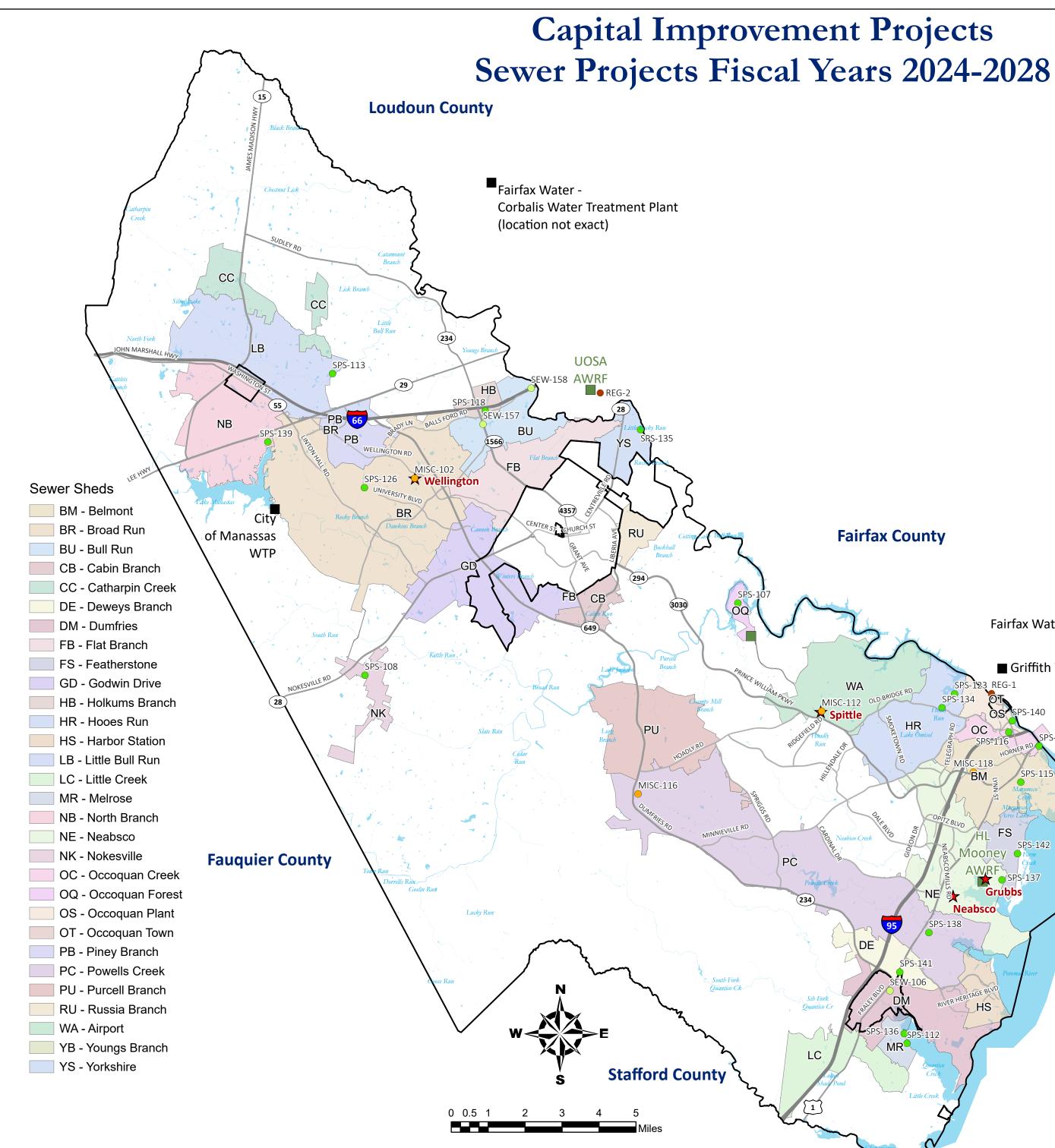
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Web Content Management System Migration IT-128

Miscellaneous Projects (MISC)

| MISC-100 | Water and Sewer Utility System Improvement Opportunity (USIO |
|-------------|--|
| MISC-101 | PWCSA Water & Sewer Facility Security Enhancements |
| MISC-102 | Wellington Road Operations Center Expansion |
| MISC-103 | PWCSA Facilities Renewals and Upgrades |
| MISC-112 | Administrative Office Space Expansion |
| MISC-114 | System Wide Master Plan |
| MISC-116 | English Gardens Property Building & Site Improvements |
| MISC-117 | Studies and PER's - Organization Wide |
| MISC-118 | Nottoway Tank Site Development |
| MISC-200 | Vehicle Replacement Program |
| MISC-201 | Mechanical Equipment Replacement Program |
| MISC-202 | Computer and Other Replacement Program |
| MISC-203 | Major Facility Rehabilitation Program |
| Water Sup | ply 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 |
| Vater Stora | age Projects (WST) |
| | Water Storage Tank Rehabilitation Program |
| WST-111 | Tank Re-Chlorination Program |
| Vater Tran | smission Projects (WAT) |
| | Dawkins Branch Transmission Main |
| WAT-122 | Gainesville to Manassas South Connector |
| WAT-138 | Possum Point Road Water Main - Phase 2 |
| WAT-181 | Rt. 1 Transmission Main - Phase 1 |
| WAT-182 | Rt. 1 Transmission Main - Phase 2 |
| WAT-183 | Western Area Resiliency - Rt. 28 Bypass |
| WAT-200 | Water Distribution Asset Replacement Program |

WAT-201 Bull Run Mountain Distribution System Improvements





Fairfax County Fairfax Water -Griffith WTP 23 REG-1 SPS OS SPS-140 HR OC PS-125 MISC-118 BM SPS-11 FS Mooney SPS-142 AWRF SPS-137 Grubbs Neabsco 95 DE SPS-141 106 HS S-136 MR

| Regional Ut | ility Projects (REG) |
|-------------|--|
| REG-1 | Occoquan River Crossing |
| REG-2 | UOSA Expansion - Project 60 |
| Information | n 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 | Network Security Upgrades |
| IT-126 | SCADA System Upgrade |
| IT-128 | Web Content Management System Migration |
| IT-129 | Enterprise Resource Planning |
| Miscellane | ous Projects (MISC) |
| MISC-100 | Water and Sewer Utility System Improvement Opportunity (USIO) |
| MISC-101 | PWCSA Water & Sewer Facility Security Enhancements |
| | Wellington Road Operations Center Expansion |
| MISC-103 | PWCSA Facilities Renewals and Upgrades |
| MISC-112 | Administrative Office Space Expansion |
| MISC-114 | System Wide Master Plan |
| MISC-116 | English Gardens Property Building & Site 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 |
| MISC-203 | Major Facility Rehabilitation Program |
| Sewage Pu | mping Station Projects (SPS) |
| SPS-100 | Generator Replacement Program |
| SPS-107 | Replace Occoquan Forest Sewage Pumping Stations, OQL36 & OQL37 |
| SPS-108 | Nokesville Sewage Pumping Station, L20 |
| SPS-112 | Graham Park Sewage Pumping Station, L13 |
| SPS-113 | Heritage Hunt Sewage Pumping Station, L52 and Force Main |
| SPS-115 | Belmont Sewage Pumping Station, L17 Replaement and Force Main Extension |
| SPS-116 | Hornbaker Sewage Pumping Station, L06 and Force Main |
| SPS-118 | Koon's Sewage Pumping Station, L28 |
| SPS-123 | Spinnaker Court Sewage Pumping Station, LO2 and Force Main |
| SPS-125 | Occoquan Creek Sewage Pumping Station, L04 and Gravity Main |
| SPS-126 | Piney Branch Sewage Pumping Station, L26 and Gravity Main |
| SPS-134 | Hooes Run Sewage Pumping Station, L01 and Force Main |
| SPS-135 | Yorkshire Sewage Pumping Station, L30 and Force Main |
| SPS-136 | Melrose Sewage Pumping Station, L10 |
| SPS-137 | Dawson Landing Sewage Pumping Station, L51 |
| SPS-138 | Powell's Creek Sewage Pumping Station, L08 and Force Main |
| SPS-139 | North Fork Sewage Pumping Statin, L39 |
| SPS-140 | Occoquan Plant Sewage Pumping Station, L14 |
| SPS-141 | Dewey's Creek Sewage Pumping Station, L09 |
| SPS-142 | Featherstone Sewage Pumping Station, L16 and Force Main |
| Sewage Co | llection Projects (SEW) |
| SEW-106 | Dumfries Force Main and Water Main |
| SEW-157 | Sudley Road Sewer Main |
| SEW-158 | I-66 Rest Area Sewer Main |
| SEW-200 | Sewer Collection Rehabilitation & Replacement Program |
| Water Rec | lamation 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 |
| | Bioreactor Basin Improvements |
| WRF-138 | Facility Wide Improvements - Design-Build Project |
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