



Tap Into Business

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Engineering & Construction

August 24, 2026





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Engineering & Construction Department Mission

Oversees the planning, design, and construction of water and wastewater infrastructure that is operated and maintained by the departments of General Services, Utility Services, and Production.

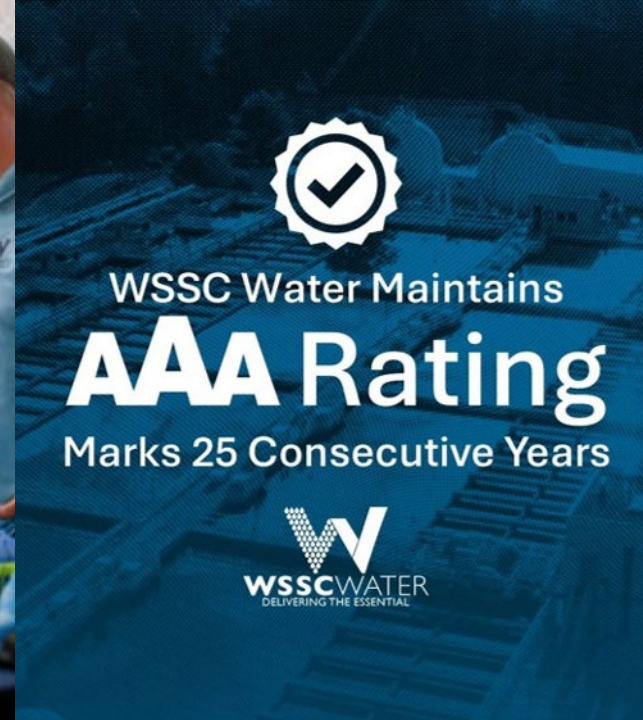
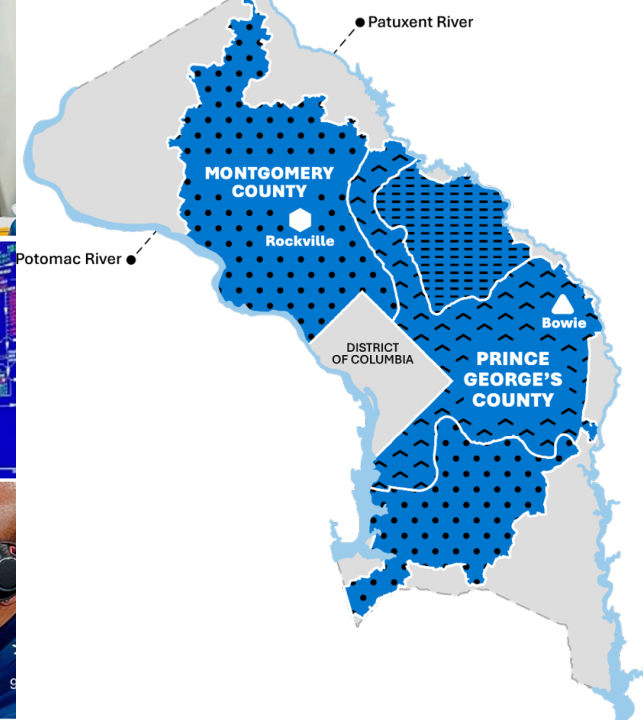
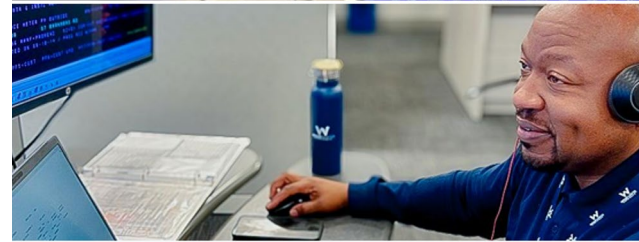
Guides and supports customers to comply with plumbing codes and regulatory requirements

Oversees private developers delivering water and wastewater projects.



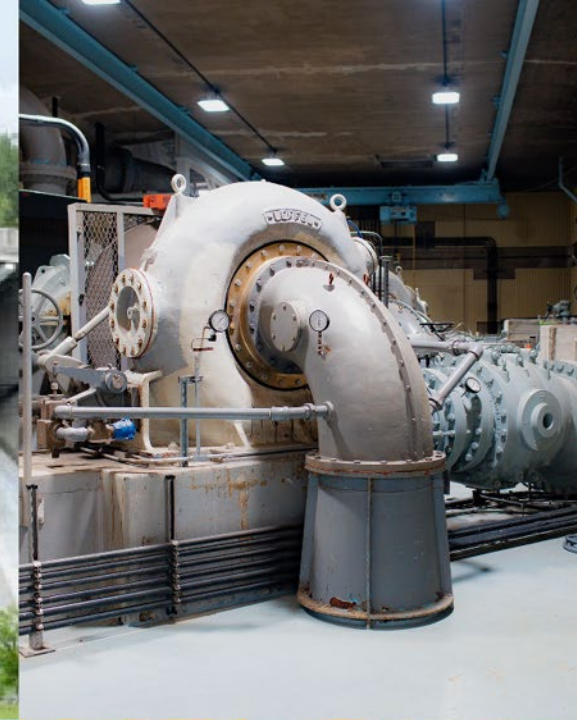
FY27 Priorities

- Anacostia 102-inch Trunk Sewer Phase II Rehab
- CIP Priorities
- CIP Delivery Improvement
- CIP Governance Improvement
- Interdepartmental Collaboration
- Lasting Community Partnerships
- Technology Enhanced Workforce
- Sound Financial Management (Triple A Bond rating)



Major Initiatives

- 20-Yr Master Plan-Dec '26
- 10-Yr Facility Plans-Dec'27
- Urgent Facilities Needs Program (Risk Based)
- Urgent Linear Systems Program (Risk Based)
- CIP PMT Launch – Improved Delivery (Faster Spend)
- Optimized Use of Collaborative Project Delivery
- Alternative Water Supply Source (Risk Based) *(to be discussed in breakout session)*
- WRRF Plant Capacity Upgrades (2045 Wet Weather Risk)



WRRF Internal Plant Process Capacity

Future Wet Weather Conditions (2045)

Facilities will require system-wide upgrades to handle future high 2045 flows

WRRF	Piscataway	Western Branch	Parkway
Influent pumping	Adequate	Partially adequate	Adequate
Screening	Adequate	Partially adequate	Partially adequate
Grit removal	Adequate	Partially adequate	Partially adequate
Primary treatment	Inadequate	N/A	Inadequate
Secondary treatment	Possibly inadequate	Very inadequate	Very inadequate
Tertiary filtration	Adequate	Very inadequate	Very inadequate
Disinfection	Partially adequate	Inadequate	Inadequate
Effluent pumping	Partially adequate	N/A	N/A

Modernization Efforts

- IT Technology Upgrades
- Uniform Project Controls
- Decision Support Systems
- Procurement Modernization
- Cloud Based Service
- Digital Twins and A/I
- Collaborative Delivery

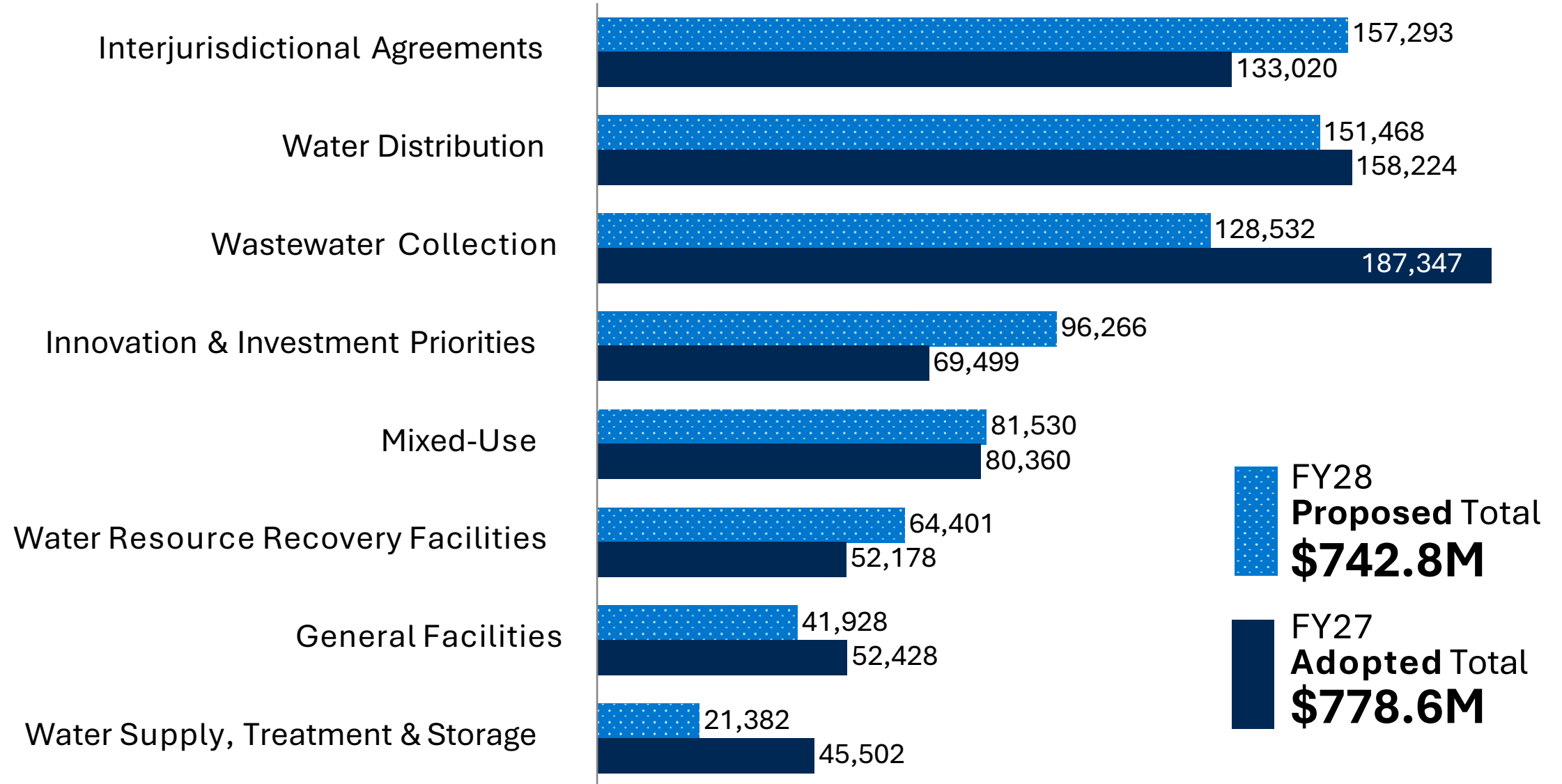
Modernization Efforts



Capital Improvements Program (CIP)



FY28 Proposed vs FY27 Adopted CIP – \$ in thousands



Capital Improvements Strategic Direction

Program Categories	Urgent Need	Info Tech	Customer Satisfaction	Governance
Water Distribution (Water Mains and Pump Stations)	Y	Y	Y	Y
Wastewater Collection (Sewer and Pump Stations)	Y	Y	Y	Y
Water Treatment and Storage (WFPs, Reservoirs, Water Tanks)	Y	Y	Y	Y
Water Resource Recovery Facilities (WRRFs)	Y	Y	Y	Y
Mixed-Use (ESP, Other Capital Programs, Land Beltway)	Y	Y	Y	Y
General Facilities (Support, Depots, Laboratory, Buildings)	-	Y	Y	Y
Innovation (Meter Infrastructure Upgrade, Energy Performance Program, Lead Reduction Program, PFAS)	-	Y	Y	Y
Interjurisdictional Programs (Blue Plains Wastewater Treatment Plant and Mattawoman Wastewater Treatment Plant)	-	Y	Y	Y

Upcoming Contracting Opportunities

Construction Contract Management Support Service:

Supports the successful delivery of capital projects, maintains construction quality and regulatory compliance, and protects public health and safety.

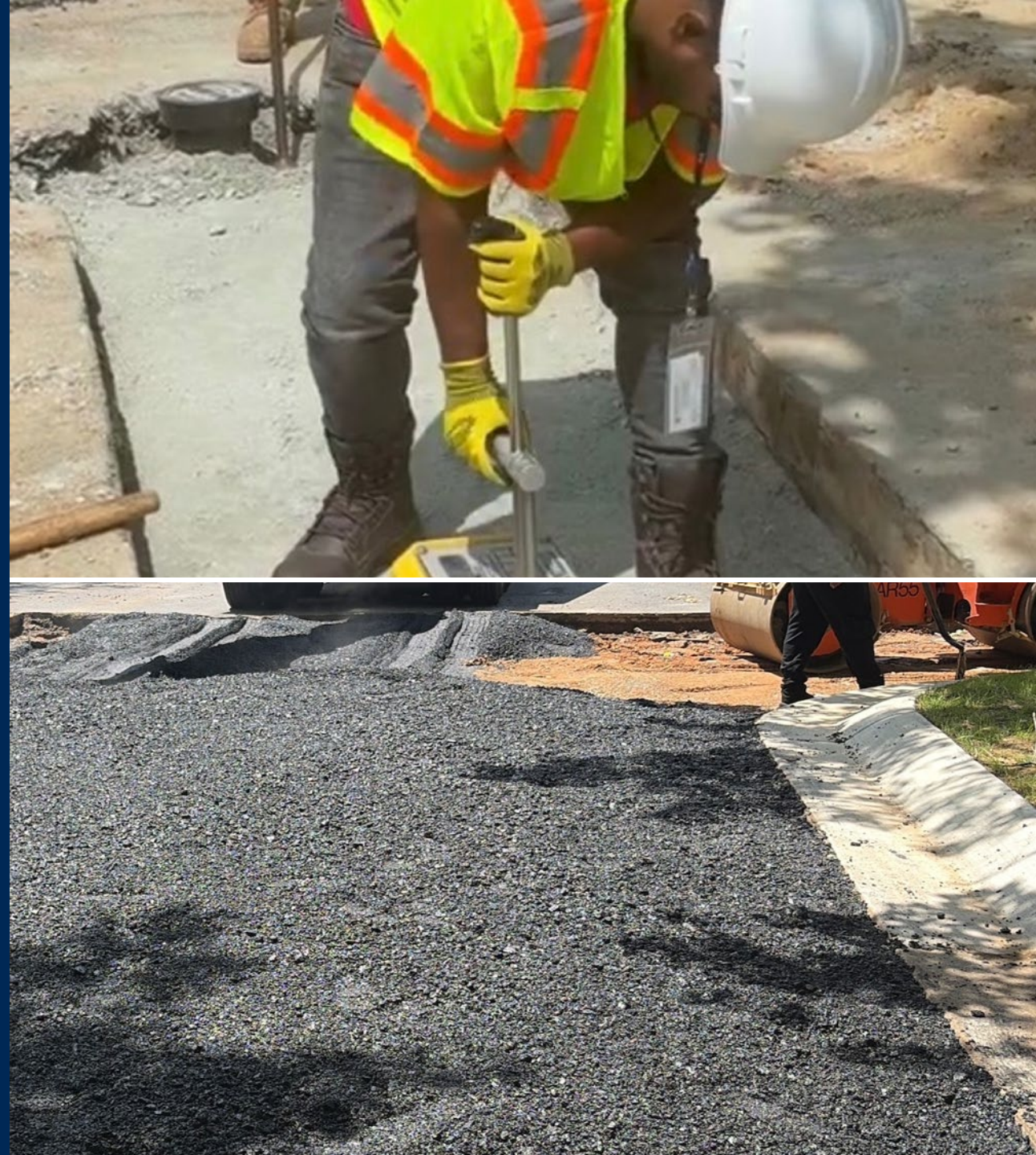
Approximately \$50M to be bid over two years.

Street Repair Services:

Includes grading, subbase preparation, hauling, traffic control, and removal, replacement, and resurfacing of concrete and bituminous concrete roadways, driveways, sidewalks, curbs, gutters, and shoulders disturbed.

Approximately \$85M to be bid over one year

by WSSC Water operations within Montgomery and Prince George's Counties Maryland on as-needed basis.



Questions?