



**ANNUAL
BUDGET**
Fiscal Year 2024
(July 1, 2023 - June 30, 2024)

HRSD

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**HRSD Annual Budget For
Fiscal Year 2024
(July 1, 2023 – June 30, 2024)**

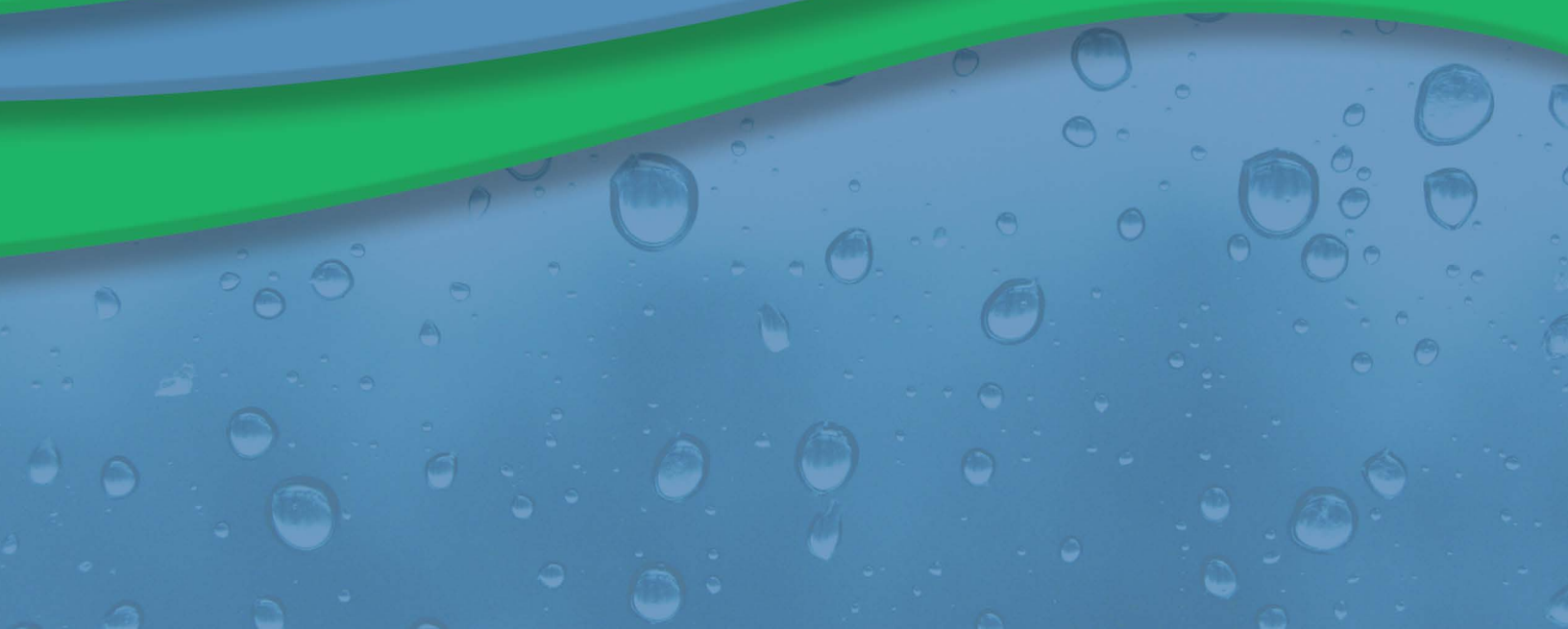
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INTRODUCTION



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General Manager's Introduction

The voters of Virginia took the bold step in 1940 to address pollution in the Hampton Roads by approving a referendum creating the Hampton Roads Sanitation District (HRSD). That public approval capped a 15-year grassroots campaign that began when the shell-fishing beds in the Hampton Roads were closed by the Virginia Department of Health. At the time, over 30 million gallons of untreated sewage was being dumped into the waters of the Hampton Roads each day. It would take the United States Congress another 32 years to tackle the issue of water pollution on a national scale, finally passing the Clean Water Act in 1972.

Over the past 82 years, HRSD has developed into one of the premier wastewater treatment organizations in the nation. With 16 treatment facilities capable of treating 226 million gallons of wastewater each day from twenty cities and counties, HRSD has eliminated the discharge of untreated sewage into the waters of coastal Virginia from the homes and businesses within our region. However, there is more work to be done to further improve water quality as well as preserve our continued investment in wastewater infrastructure.

The Governor-appointed, eight-member HRSD Commission approved this Fiscal Year 2024 budget at its regular meeting on May 23, 2023. The Commission and the HRSD staff worked diligently to balance our focus on stewardship of our ratepayers' hard-earned dollars with our promise of stewardship of the waters of the Hampton Roads. The cost of wastewater treatment continues to rise as historic inflation is impacting every sector of the economy. However, wastewater treatment is still a bargain in Hampton Roads, with the typical household paying about one-penny per gallon for this essential service that protects public health and our treasured local waterways.

Chesapeake Bay Restoration

The Chesapeake Bay is a national treasure as the nation's largest estuary but suffers from nutrient pollution from three major sources: agriculture, stormwater and wastewater. With more than 18 million people living in the Chesapeake Bay watershed, wastewater is responsible for approximately 20 percent of the excess nutrients discharged into the Bay. Since 2006, HRSD has invested over \$500 million in new process technology improvements and millions in annual operating costs to meet increasingly stringent federally mandated nutrient reduction limits. Unfortunately, it is not enough. The Commonwealth of Virginia has focused its efforts on removing more nutrients from HRSD wastewater facilities to meet statewide commitments required in the upper portions of the Chesapeake Bay, and to offset delays in meeting nutrient reduction goals largely in unregulated sectors such as agriculture. As a result, the General Assembly in 2021 passed legislation creating the Enhanced Nutrient Removal Certainty Program. This legislative mandate commits HRSD to invest nearly \$2 billion in nutrient removal and related treatment upgrades, with a major portion of it required to be completed by 2026. The remainder of the program must be completed by 2032. These projects, many of which HRSD planned to accomplish, are now critically needed over a more compressed timeline, reducing HRSD's flexibility in implementing the most cost-effective strategies and likely increasing the overall costs.

HRSD's Integrated Plan – Prioritized Investments to Address Hampton Roads Water Issues

The regional sewer system, although never designed to handle stormwater, fills with rainwater runoff, groundwater and tidal water during larger storms. When the regional system fills beyond its capacity, a sanitary sewer overflow (SSO) occurs onto local streets. As part of the Clean Water Act, the Environmental Protection Agency (EPA) has made minimizing these types of events a national priority; but it comes at a tremendous financial burden. SSOs in Hampton Roads are relatively rare, since the regional system has separate stormwater and sanitary sewer pipes, as opposed to a combined system

that is common is larger cities. HRSD remains committed to eliminating SSOs; however, the impact of those transient events on local water quality is minimal and the benefits of their elimination is nearly unperceivable.

In 2014, as part of the EPA negotiations and to save the region money, HRSD and the cities and counties HRSD serves (collectively, Localities) agreed to a cooperative regional approach to increase the region's wet weather flow capacity. Even though HRSD does not own the Localities' collection systems in the metropolitan region of Hampton Roads, HRSD agreed to make prioritized capacity-related improvements to its and the Localities' systems resulting in a significant reduction of overall program compliance costs.

More recently, the EPA has shifted to a more prioritized "one water" approach through their Integrated Planning framework. The Integrated Planning framework allows entities to "best prioritize capital investments and achieve our human health and water quality objectives." After years of negotiations with EPA and other key stakeholders, HRSD's Integrated Plan was approved on February 8, 2022. The plan was a collaborative effort between HRSD, EPA, the Virginia Department of Environmental Quality (DEQ) and the Localities that allows us to prioritize our region's most important water quality issues.

HRSD's SWIFT Program Offers Multiple Benefits and Saves the Region \$5 Billion

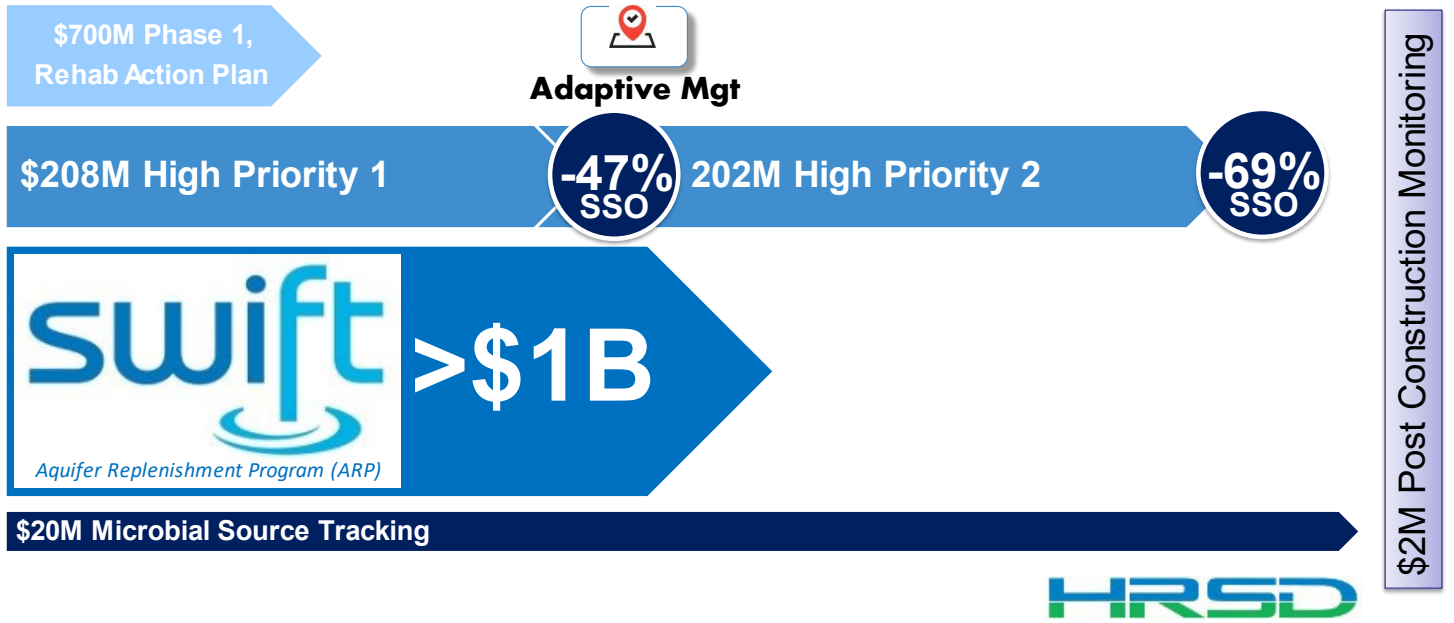
At the heart of the Integrated Plan is HRSD's Sustainable Water Initiative for Tomorrow (SWIFT) program. This program will take HRSD's already highly treated water that would otherwise be discharged into the James and Elizabeth rivers and further treat it to meet drinking water standards to be used to recharge the groundwater aquifer. SWIFT will help to:

- Provide a sustainable source of groundwater
- Slow the rate of land subsidence due to over withdrawal of the aquifer
- Block saltwater intrusion by creating a pressurized freshwater barrier, and
- Significantly reduce HRSD's nutrient discharges to the James and Elizabeth rivers.

As a result of the projected reduction in nutrients, HRSD established nutrient trading agreements with each Locality allowing them to save over \$2 billion in required stormwater retrofits required by the end of 2025.

Given SWIFT's significant environmental benefits for the region, HRSD is prioritizing SWIFT construction efforts and implementing two phases of high priority wet weather projects in our Integrated Plan. The key regulatory requirements include:

- \$250 million in improvements as part of our Rehabilitation Action Plan by 2025
- \$208 million of High Priority Wet Weather Projects from 2020 to 2030 to remove 47 percent of projected SSO volume
- \$202 million of additional High Priority Wet Weather Projects from 2031 to 2040 to remove an additional 22 percent of SSO volume for a total reduction of 69 percent
- Over \$1 billion spent on SWIFT through 2032, and
- \$20 million in microbial source tracking through 2040.



\$2M Post Construction Monitoring

The compliance objective is a 69 percent or greater reduction in baseline modeled SSOs by volume for the 5 -year peak flow recurrence event

HRSD’s Integrated Plan not only complies with the Clean Water Act for SSOs, but also with nutrient reduction requirements for the Chesapeake Bay restoration. Between 2021 and 2028, over 70 percent of the total nitrogen and over 50 percent of the phosphorus will be eliminated from the Lower James River Basin.

In addition to helping to provide a sustainable groundwater supply, reducing the rate of land subsidence to lessen the effects of sea level rise in the region, protecting the aquifer from saltwater intrusion, and improving the health of the Chesapeake Bay, HRSD’s regional approach to these regulatory requirements will save the region approximately \$5 billion compared with each Locality needing to comply with the Clean Water Act and Chesapeake Bay nutrient reductions individually.

Pursuing Innovative Solutions to Reduce Costs and Protect Water Quality

HRSD continues to lead international research efforts to reduce the cost of removing nutrients from wastewater and to intensify treatment processes. HRSD’s research work is leveraged through partnerships with leading universities and other innovative wastewater utilities throughout the world. Putting the knowledge gained into practice has already yielded a significant return on our investment by reducing operating costs for nutrient removal, as well as minimizing the need for certain capital investments. These efforts have reduced HRSD’s energy and chemical costs by nearly \$40 million over the past 10 years.

Financing a Sustainable Water Future

HRSD is investing in the regional wastewater infrastructure to ensure we leave a fully functional system to the next generation. While HRSD continues to focus on making the right investments at the right time in Hampton Roads, across the nation the need for investment in all infrastructure continues to grow. The [American Society of Civil Engineers’ 2021 Infrastructure Report Card](#) graded the current state of wastewater infrastructure at a D+. [The US Water Alliance’s Report, The Economic Benefits of Investing in Water Infrastructure](#), estimates the unmet water investment at over \$81 billion per year. The report highlights the lack of adequate federal investment in wastewater infrastructure, showing the drop in federal investment from 63 percent in 1977 to less than 4 percent in 2017. State, regional and local governments have had to fill that funding gap, passing on significant rate increases as utilities must price service to recover full costs.

With 73 percent of HRSD's \$3.7 billion ten-year CIP necessitated by changing environmental regulations, HRSD must continue to raise its rates. To lower costs to its ratepayers, HRSD seeks the lowest cost of capital to finance its infrastructure requirements. HRSD is the largest borrower in the Commonwealth of Virginia Clean Water Revolving Loan Funds (VCWRLF) issued by the DEQ and the Virginia Resources Authority. VCWRLF is a federally subsidized program that offers up to a 1.5 percent interest rate subsidy for 20-year loans. HRSD also secured \$1.05 billion in federally subsidized Water Infrastructure Finance and Innovation Act (WIFIA) programmatic loans for SWIFT. Approximately, \$700 million of those loans have a locked-in interest rate of 1.78 percent. These strategies when compared to current market rates, will save our ratepayers over \$600 million. HRSD is also actively applying for various grants to help fund our CIP.

The Community's Role

Our ratepayers can help control their costs by helping us control ours. Ensuring storm water runoff from downspouts, area drains, and sump pumps is not directed to the sanitary sewer system, and ensuring privately-owned service piping is well maintained and leak free will reduce the amount of water entering the sewer system. Collecting fats, oils and grease in a container for disposal in the trash, as opposed to pouring them down the drain, reduces wastewater system maintenance and operating costs. Proper disposal of unused medications (and other substances) prevents them from reaching our treatment plants, which are not designed for removal of such substances. Our ratepayers can make a difference by not flushing unused medications down the sink or the toilet. Every flush counts.

As we reflect on nearly 82 years of protecting public health and the waters of Hampton Roads, we remember the mandate so boldly declared by those environmentally concerned Virginians in 1940. It was their foresight that allows us to enjoy the waters of Hampton Roads today. It will take our continued innovation, investment and foresight to ensure future generations will inherit clean waterways and be able to keep them clean.

Sincerely,



Jay A. Bernas, PE
General Manager

Principal Officials

May 1, 2023

COMMISSIONERS

Stephen C. Rodriguez, Chair

Frederick N. Elofson, CPA, Vice-Chair

Michael E. Glenn

Vishnu K. Lakdawala, PhD

Willie Levenston, Jr.

Nancy J. Stern

Elizabeth A. Taraski, PhD

Ann W. Templeman

COMMISSION SECRETARY

Jennifer L. Cascio

ASSISTANT COMMISSION SECRETARY

Elizabeth I. Scott

SENIOR STAFF

Jay A. Bernas, PE
General Manager

Steven G. de Mik, CPA
Deputy General Manager/CFO
Director of Finance and Treasurer

Eddie Abisaab, PE, PMP,
ENV SP
Director of Operations

Charles B. Bott, PhD, PE, BCEE
Director of Water Technology &
Research

Donald C. Corrado
Director of Information
Technology

Bruce W. Husselbee, PhD, PE
Director of Engineering

Jamie Heisig-Mitchell
Director of Water Quality

Dorissa Pitts-Paige, PHR,
IPMA-SCP, SHRM-SCP
Director of Talent Management

Leila Rice, APR
Director of Communications

COUNSEL

Sands Anderson, PC
General Counsel

AquaLaw, PLC
Special Counsel

Norton Rose Fulbright US, LLP
Bond Counsel

Key Facts

Service Area and Operations

Date Established	November 5, 1940
Communities Served	20 communities encompassing 4,998 square miles
	HRSD is a political subdivision of the Commonwealth of Virginia, created for the specific purpose of water pollution abatement in Hampton Roads by providing a system of interceptor mains and wastewater treatment plants.
Population Served	About 1.9 million, nearly one-fifth of Virginia's population, reside in HRSD's service area.

Operation and Facilities

No. of Positions (FY-2024)	905
Miles of Interceptor Systems	538 Miles
Wastewater Treated	132 million gallons per day average
Wastewater Capacity	226 million gallons per day average

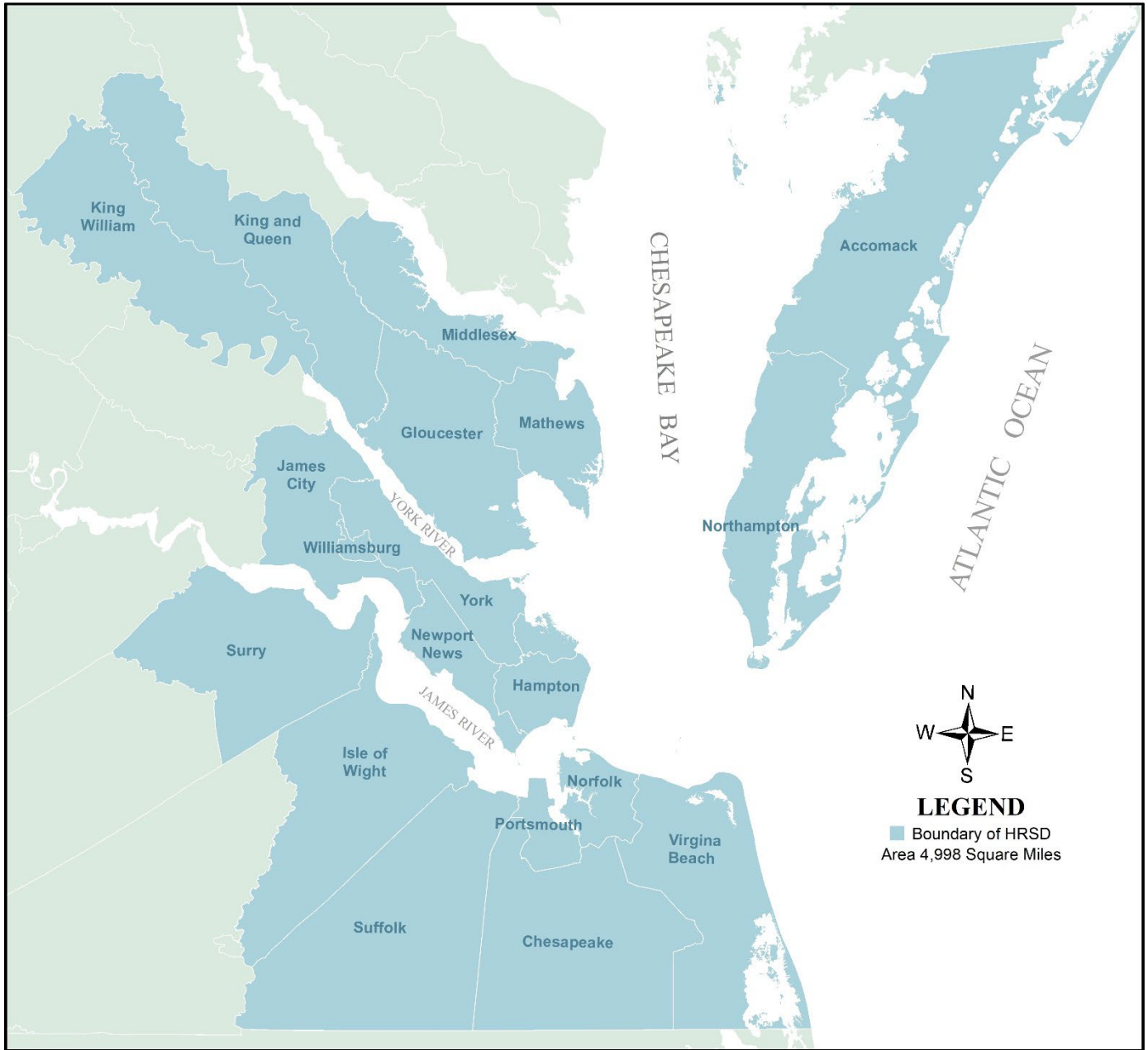
Financial Information

Bond Ratings

Ratings Agency	Senior Debt	Subordinate Long-term	Subordinate Short-term
Standard & Poor's	AA+	AA+	A-1+
Fitch Ratings	AA+	AA	F1+
Moody's Investors Service	Aa1	Aa1	n/a

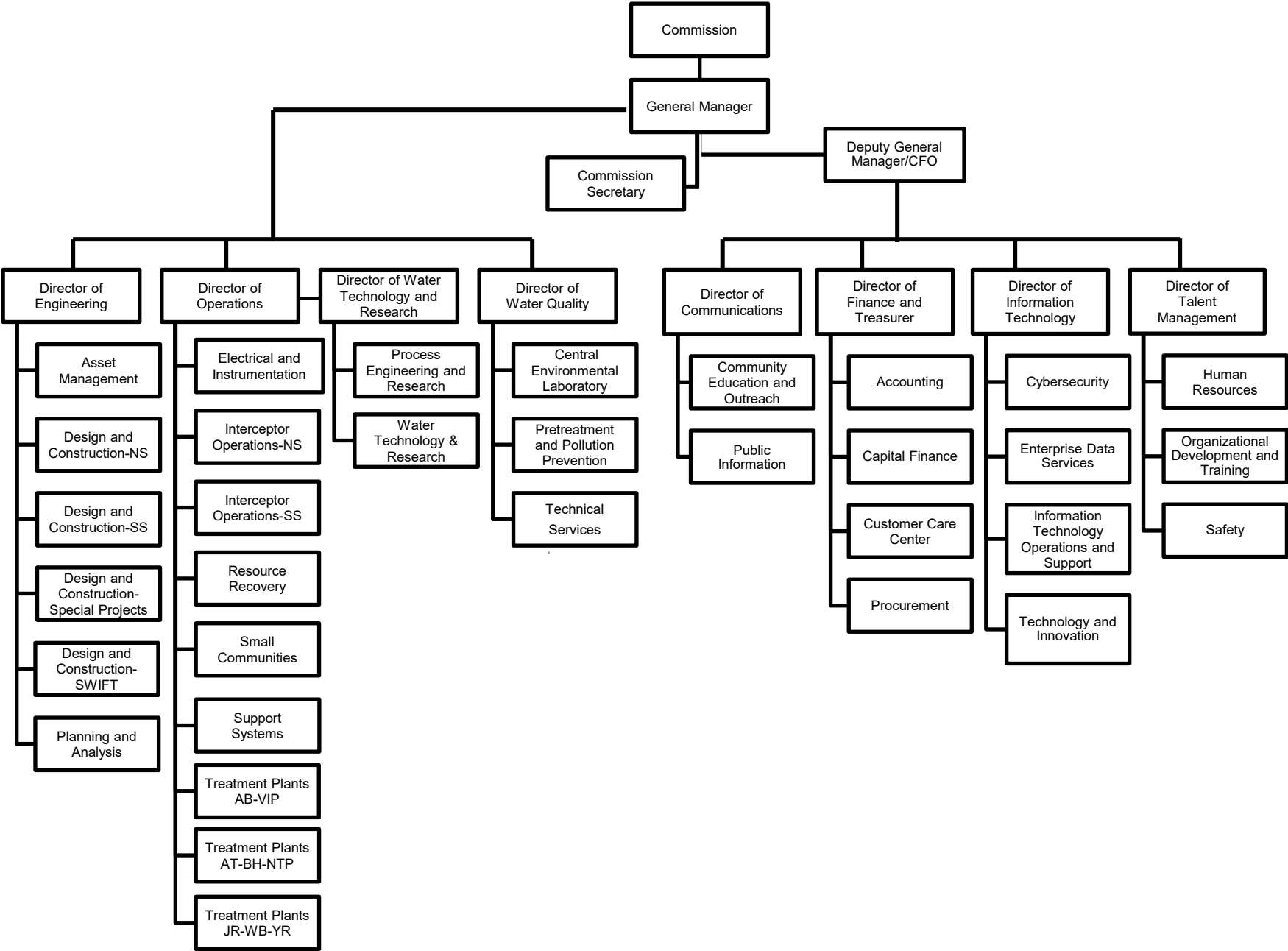
Operating Budget (FY-2024)	\$428,490,000
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HRSD Service Area



HRSD Organization Chart

July 1, 2023



History of HRSD

HRSD can trace its beginnings to 1925 when the Virginia Department of Health condemned a large oyster producing area in Hampton Roads. The closure resulted in the Virginia General Assembly creating in 1927 a "Commission to Investigate and Survey the Seafood Industry of Virginia." Other studies recommended a public body to construct and operate a sewage system in the area. HRSD was named after Hampton Roads, a ship anchorage used for five centuries located near the convergence of the James, Elizabeth and Nansemond Rivers, before they flow into the Chesapeake Bay in southeastern Virginia.

In 1934, the Virginia General Assembly created the Hampton Roads Sanitation Disposal Commission with instructions to plan the elimination of pollution in Hampton Roads. Recommendations were made to the General Assembly, which resulted in the Sanitary Districts Law of 1938, along with "an Act to provide for and create the Hampton Roads Sanitation District." This Act required the qualified voters within HRSD to decide in a general election on November 8, 1938, if they favored creation of such a District. This referendum failed to gain a majority by about 500 votes out of nearly 20,000 votes cast. This led to a revision of the Act and another referendum was held on November 5, 1940, which resulted in a majority vote for the creation of the Hampton Roads Sanitation District.

The Enabling Act provides for HRSD to operate as a political subdivision of the Commonwealth of Virginia for the specific purpose of water pollution abatement in Hampton Roads by providing a system of interceptor mains and wastewater treatment plants. Its affairs are controlled by a Commission of eight members appointed by the Governor for four-year terms. Administration is under the direction of a General Manager, supported by department directors and their staffs.

HRSD began operations on July 1, 1946, using facilities acquired from the United States Government. The Warwick County Trunk Sewer, HRSD's first construction project, began on June 26, 1946, and was funded by HRSD's \$6.5 million Primary Pledge Sewer Revenue Bonds, dated March 1, 1946. The first treatment plant, the Army Base Plant, began operation on October 14, 1947. Since that time, the facilities of HRSD have grown to provide sanitary sewer service to all major population centers in southeastern Virginia. The population served has increased from nearly 288,000 in 1940 to about 1.9 million in 2023.

Throughout its rich history HRSD has earned many of its industry's most prestigious awards. This tradition continued as HRSD received the 2023 Governor's Environmental Excellence Gold Award for its collaboration with DC Water on development of Next Generation Mainstream Nitrogen Removal Technology through Partial Denitrification-Anammopx (PdNA).

Additional awards and honors received during the year ended June 30, 2023 include the 2022 Water Environment Federation (WEF) Project Excellence Award for the Providence Road Offline Storage Facility Woodstock Park Improvements Project, as well as the Design-Build Institute of America (DBIA) Design-Build Merit Award and Design-Build Award of Excellence in the Water/Wastewater sector for the same project. HRSD also earned the National Association of Clean Water Agencies (NACWA) National Environmental Achievement Awards in the categories of Research and Technology, Public Information and Education and Workforce Development, as well as the 2023 Grand and Pinnacle awards from the American Council of Engineering Companies (ACEC) of Virginia for the Chesapeake-Elizabeth Interceptor Diversion Improvements Project. The HRSD Finance Department also earned the George F. Ames PISCES award in the Innovative Finance category from the Environmental Protection Agency (EPA).

Rate Schedules

WASTEWATER TREATMENT RATE SCHEDULE

<u>Service</u>	<u>FY-2024</u>		<u>FY-2023</u>	
Flow (monthly basis)				
Per CCF *	\$	7.60	\$	6.97
Minimum charge (per day)		0.30		0.30
Surcharge, per milligrams/liter per CCF	<u>In Excess of</u>		<u>In Excess of</u>	
Biochemical Oxygen Demand (BOD)	297 mg/L	\$ 0.000185	297 mg/L	\$ 0.000185
Total Suspended Solids (TSS)	282 mg/L	0.000612	282 mg/L	0.000611
Total Phosphorus (TP)	7 mg/L	0.009258	7 mg/L	0.009531
Total Kjeldahl Nitrogen (TKN)	57 mg/L	0.002784	57 mg/L	0.002705
Surcharge, per 100 pounds				
Biochemical Oxygen Demand (BOD)	297 mg/L	\$ 2.96	297 mg/L	\$ 2.97
Total Suspended Solids (TSS)	282 mg/L	9.80	282 mg/L	9.79
Total Phosphorus (TP)	7 mg/L	148.30	7 mg/L	152.67
Total Kjeldahl Nitrogen (TKN)	57 mg/L	44.59	57 mg/L	43.33
<u>Nutrient Credits</u>				
Asset Charge (\$/pound/year)				
Total Suspended Solids (TSS)	\$	8.39	\$	-
Total Phosphorus (TP)		58.55		-
Total Nitrogen (TN)		13.49		-
Operational Charge (\$/pound)				
Total Suspended Solids (TSS)	\$	0.1274	\$	-
Total Phosphorus (TP)		1.0226		-
Total Nitrogen (TN)		0.2897		-
Other Approved Hauled Wastes (per gallon)	\$	0.1812	\$	0.1812
Fats, Oils, and Grease (FOG) (per gallon)		0.3517		0.3339
Town Wholesale Treatment (per 1000 gallons)		3.55		3.55
Residential flat rate (per day)		2.00		1.93

* CCF = 100 Cubic Feet (approximately 748 gallons)

VOLUME BASED FACILITY RATE SCHEDULE

<u>Meter Size</u>	<u>FY-2024</u>		<u>FY-2023</u>	
5/8 Inch	\$	2,420	\$	2,285
3/4 Inch		4,210		4,210
1 Inch		7,410		7,410
1 ½ Inch		18,395		17,590
2 Inch		35,825		34,415
3 Inch		91,665		88,570
4 Inch		178,485		173,245
6 Inch		456,620		445,910
8 Inch		889,185		872,130
10 Inch		1,491,070		1,467,435
12 Inch		2,274,730		2,244,900
14 Inch		3,251,050		3,215,910
16 Inch		4,429,645		4,390,660

Rate Schedules

SMALL COMMUNITIES RATE SCHEDULE

	FY-2024	FY-2023
Flow (monthly basis) per 1,000 gallons		
Eastern Shore	\$ 16.08	\$ 15.13
King William	16.31	15.37
Mathews	16.08	15.13
Middlesex/Urbanna	16.08	15.13
Surry	16.08	15.13
West Point	16.08	15.13
Residential flat rate (per day)		
Eastern Shore	\$ 2.21	\$ 2.02
King William	2.24	2.05
Mathews	2.21	2.02
Surry	2.21	2.02
Middlesex/Urbanna	2.21	2.02
West Point	2.21	2.02
Minimum charge - metered accounts (per day)	\$ 0.30	\$ 0.30

FEES

	FY-2024	FY-2023
Damaged meter/antenna (plus cost of meter/antenna)	\$ 250	\$ 250
Damaged lock	100	100
Service restoration	100	100
Meter reading (customer-owned meter)	75	75
Inaccessible meter	50	50
Access card replacement	25	25
Returned payments	25	25
Delinquency service trip	15	15
Account documentation	10	10
Deduction meter	2	2

Readers Guide to the Annual Budget

PURPOSE

The Annual Budget is an instrument that sets HRSD's budgetary policy and authorization to raise revenues and spend funds each fiscal year. The development of the Annual Budget is guided by HRSD's promise and vision statements:

- Promise: We promise to treat wastewater and recover natural resources to protect public health and the environment.
- Vision: Our communities will have clean waterways and reliable water resources for generations to come.

ANNUAL BUDGET OVERVIEW

HRSD's Annual Budget contains the following sections:

Financial Forecast

This section provides a high level, 20-year forecast of projected wastewater treatment rate increases, operating revenues and expenses, capital improvements and related funding sources, amounts contributed to and fiscal year-end balances of cash and investment reserves, and selected financial ratios that help to measure the financial health of HRSD. The forecast is an inflationary based model where trends from past fiscal years and proposed operating budgets are used to forecast future operating needs. Transfers to reserves and to the Capital budget are forecast to be in amounts that are not less than parameters established within HRSD's Financial Policy. Debt service is based on different sources of future funding: Virginia Clean Water Revolving Fund, Water Infrastructure Finance and Innovation Act (WIFIA), interim financing and revenue bonds. Interest rates are based on known rates or historical averages.

Operating Budget

The Operating Budget represents the authorization by the HRSD Commission to spend funds directly related to operating and maintaining HRSD's programs and assets during the fiscal year. This section includes each department's annual operating budgets. Those expenses that are not attributable to a specific department are assigned to "General Expenses." Transfers represent authorization to transfer revenues raised from operations to either the Capital Budget or to various reserves established in HRSD's Financial Policy. The Operating Budget Summary provides the budget by department and major object code classification. Department Budgets and General Expenses, Debt Service and Transfers detail budget expenditures by major object code classification. The number of full-time positions authorized for the fiscal year is provided by department.

Capital Budget

The Capital Budget represents a plan of specific, major capital improvements over a period of ten fiscal years. The Capital Budget is not an approval or appropriation of funds for individual projects. There is no authorization or funding for individual projects until the Commission acts on the specific project. The Commission formally authorizes spending for individual projects throughout a fiscal year and generally upon project initiation.

The Summary Schedule details the funding sources for capital improvements as well as planned expenditures.

A formal, detailed, Capital Improvement Program with more specific project information is available at <https://www.hrsd.com/cip>.

HRSD's budget authorizations, capital improvement plans, user rate setting practices and other significant financial practices are guided by HRSD's Financial Policy and Revenue Policy. The Financial Policy and Revenue Policy are available at <http://www.hrsd.com/finance>.

HRSD's Rate Schedule is available at <http://www.hrsd.com/finance>.

BUDGETARY PROCESS

HRSD prepares its Annual Budget under the provisions of its enabling legislation and its Trust Agreement, dated March 1, 2008. In accordance with those provisions, the following process is used to adopt the Annual Budget:

- The process begins in late December with the issuance of the Annual Budget Instructions by the General Manager. Each department completes its Operating Budget by March 1 for the General Manager's review.
- The HRSD Commission appoints a Finance Committee which typically consists of two Commissioners. The committee meets in early April to review the budgets. The Commission reviews these budgets during its April meeting.
- The final Annual Budget, which incorporates the Operating and Capital Budgets, is presented at the May Commission meeting for adoption. The Commission simultaneously adopts the budget and any resulting wastewater rate schedule changes. All rate adjustments must be publically advertised four consecutive weeks before they can take effect.
- The HRSD Commission approves any budget amendments during the fiscal year.

BUDGETARY ACCOUNTING AND CONTROL

HRSD operates in accordance with annual operating and capital budgets prepared on a basis of accounting that is different from generally accepted accounting principles.

The Operating Budget is adopted by department, with budgetary controls exercised administratively by management at the department level. The General Manager is authorized to transfer funds among departments without further approval by the Commission. Appropriations lapse at the end of the fiscal year. Valid, outstanding encumbrances (those for which performance under a contract is expected in the next year) are re-appropriated without further approval by the Commission and become part of the subsequent year's budget.

The Capital Budget represents a ten-year plan. Funds for the Capital Budget are adopted throughout a fiscal year on a project basis. Transfers among projects require approval by the Commission. Appropriations for these budgets continue until the purpose of the appropriation has been fulfilled.

Glossary of Financial Terms

Adjusted Days Cash on Hand: Days Cash on Hand that excludes accrued debt service, the Risk Reserve, the Renewal and Replacement Reserve, and cash budgeted for the CIP in the next fiscal year.

Appropriation: An authorization granted by the Commission to incur obligations for specific purposes. Appropriations are usually limited to amount, purpose and time.

Basis of Accounting: HRSD's financial statements report the financial position and results of operations of HRSD in accordance with generally accepted accounting principles in the United States of America (GAAP).

Bond Ratings: A grade given to bonds that represents a measure of their credit quality. Private independent rating services such as Standard & Poor's, Moody's and Fitch provide these evaluations of a bond issuer's financial strength, or its the ability to pay a bond's principal and interest in a timely fashion.

Capital Improvement Program (CIP): Ten-year plan for major non-recurring facility, infrastructure, or acquisition expenditures that expand or improve HRSD and/or locality assets. Projects included in the CIP include physical descriptions, implementation schedules, year of expenditure cost and funding source estimates, and an indication of HRSD Commission priorities and community benefits

Centum Cubic Feet (CCF): Typical unit in which industrial-consumption of natural gas or water is measured; each CCF being 100 cubic-feet.

CIP Percent Cash Funded: Percent of each year's capital improvement plan funded with cash through transfers from operations. HRSD's Financial Policy requires that at least 15 percent of each year's planned capital improvements be funded with cash. This ratio indicates the amount of capital improvements that are not leveraged.

Days Cash on Hand: Measured by current and non-current unrestricted cash and investments, plus any restricted cash and investments, if available for general system purposes, divided by Operating Expenses, divided by 365.

Debt Service: Amount of money necessary to pay principal and interest on bonds outstanding.

Debt Service as a Percent of Revenues: Total revenues divided by total debt service. This ratio measures the debt service burden compared to total revenues.

Risk Management Reserve: HRSD maintains a self-insurance program for some of its risk exposures. HRSD'S Financial Policy requires HRSD to maintain a Risk Management Reserve as of the end of the fiscal year of not less than 25 percent of projected annual self-insured claims costs for known, retained risks.

Senior Debt Service Coverage: Current-year revenues available for debt service divided by current-year senior lien debt service. This ratio indicates the financial margin to meet current senior lien debt service with current revenues available. HRSD's Financial Policy requires that Senior Debt Service Coverage will not be less than 1.5 times senior lien debt service. When calculating compliance with this coverage requirement, HRSD may make reasonable adjustments to the net revenues as presented on a basis consistent with generally accepted accounting principles. HRSD's Senior Trust

Agreement requires Senior Debt Service Coverage, which is determined by dividing the Income Available for Debt Service by the Maximum Annual Debt Service, will not be less than 1.2 times.

Total Debt Service (Adjusted): Calculated in accordance with HRSD's Subordinate Trust Agreement, the ratio determined by dividing the Net Revenues by annual debt service. In such calculation, funds spent on Locality Assets may be excluded from the calculation of Net Revenues under the circumstances described within the definitions of Net Revenues and Operating Expenses. Annual debt service will be based on actual principal and interest payments during the year (i.e., not accrual based).

Total Debt Service Coverage Ratio (GAAP): Calculated in accordance with HRSD's Senior Trust Agreement, the ratio determined by dividing the Net Revenues by annual debt service. In such calculation, funds spent on Locality Assets are considered an expense. Annual debt service will be based on actual principal and interest payments during the year (i.e., not accrual based).

Trust Agreement: The formal agreement between bond holders, acting through a trustee, and HRSD.

Unrestricted Cash: Unrestricted cash and investments at fiscal year-end that are not earmarked for another purpose.

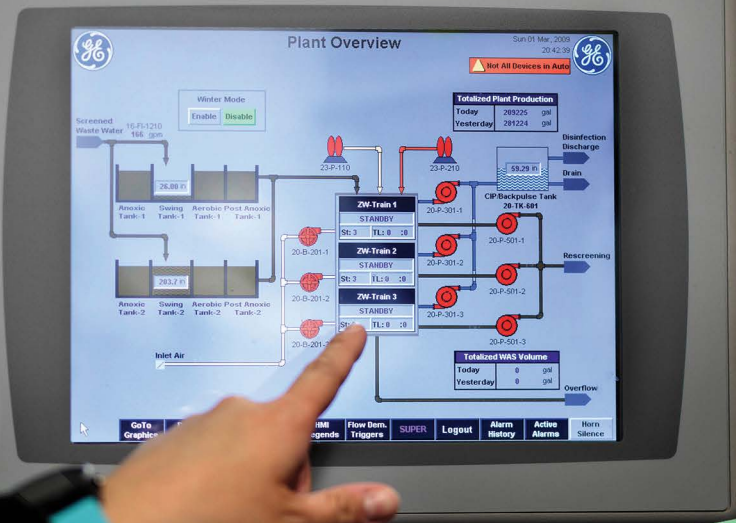
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M.C.B.
REMOTE OPERATOR
CONTROL PANEL

FINANCIAL FORECAST

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OPERATING BUDGET

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Operating Budget

	FY-2024	Adopted FY-2023	FY24 vs FY23 Inc/(Dec)	Percent Change
Operating Revenues				
Wastewater Treatment Charges	\$ 414,801,000	\$ 374,842,000	\$ 39,959,000	10.7%
Miscellaneous	1,320,000	1,284,000	36,000	2.8%
Total-Operating Revenue	416,121,000	376,126,000	39,995,000	10.6%
Non-Operating Revenues				
Wastewater Facility Charges	6,095,000	7,150,000	(1,055,000)	(14.8%)
Investment Earnings	3,000,000	1,570,000	1,430,000	91.1%
Build America Bond Subsidy	1,954,000	2,026,000	(72,000)	(3.6%)
Other	1,320,000	977,000	343,000	35.1%
Total Non-Operating Revenues	12,369,000	11,723,000	646,000	5.5%
Total Revenues and Transfers	\$ 428,490,000	\$ 387,849,000	\$ 40,641,000	10.5%
Operating Appropriations				
General Management	\$ 538,146	\$ 456,457	\$ 81,689	17.9%
Communications	599,962	640,511	(40,549)	(6.3%)
Finance	17,365,168	15,845,731	1,519,437	9.6%
Information Services	18,642,412	17,783,194	859,218	4.8%
Talent Management	3,071,396	2,614,742	456,654	17.5%
Operations	134,935,571	117,539,113	17,396,458	14.8%
Engineering	9,206,395	8,116,929	1,089,466	13.4%
Water Quality	18,299,074	16,577,131	1,721,943	10.4%
General Expenses	4,204,506	9,069,227	(4,864,721)	(53.6%)
Total Operating Appropriations	206,862,630	188,643,034	18,219,596	9.7%
Appropriations for Debt Service and Transfers				
Debt Service	76,150,000	69,533,000	6,617,000	9.5%
Transfer to CIP	145,217,370	129,412,966	15,804,404	12.2%
Transfer to Risk Management Reserve	260,000	260,000	-	0.0%
Total Appropriations for Debt Service and Transfers	221,627,370	199,205,966	22,421,404	11.3%
Total Appropriations	\$ 428,490,000	\$ 387,849,000	\$ 40,641,000	10.5%

Operating Budget Summary

	General		Finance	Information		Talent		Operations	Engineering
	Management	Communications		Technology	Management				
Personal Services	\$ 373,137	\$ 401,623	\$ 7,821,681	\$ 6,506,396	\$ 1,942,297	\$ 42,081,052	\$ 5,772,963		
Fringe Benefits	92,009	135,039	3,104,592	2,085,746	691,649	16,941,679	1,963,395		
Materials & Supplies	10,000	9,500	102,784	1,634,800	79,000	10,964,593	34,450		
Transportation	12,500	14,500	23,650	22,700	15,000	1,837,623	26,179		
Utilities	-	-	282,000	1,421,000	-	14,466,011	-		
Chemical Purchases	-	-	-	-	-	17,093,255	-		
Contractual Services	20,000	35,500	5,722,389	5,785,270	23,500	19,875,161	1,182,000		
Major Repairs	-	-	-	823,000	-	9,487,624	-		
Capital Assets	-	-	-	-	-	1,064,500	-		
Miscellaneous Expense	30,500	3,800	308,072	363,500	319,950	1,124,073	227,408		
Operating Appropriations	\$ 538,146	\$ 599,962	\$ 17,365,168	\$ 18,642,412	\$ 3,071,396	\$ 134,935,571	\$ 9,206,395		

Full-time Positions:

Current	2	4	103	54	18	524	53
Changes	-	-	6	6	3	9	1
Budgeted	2	4	109	60	21	533	54

Operating Budget Summary

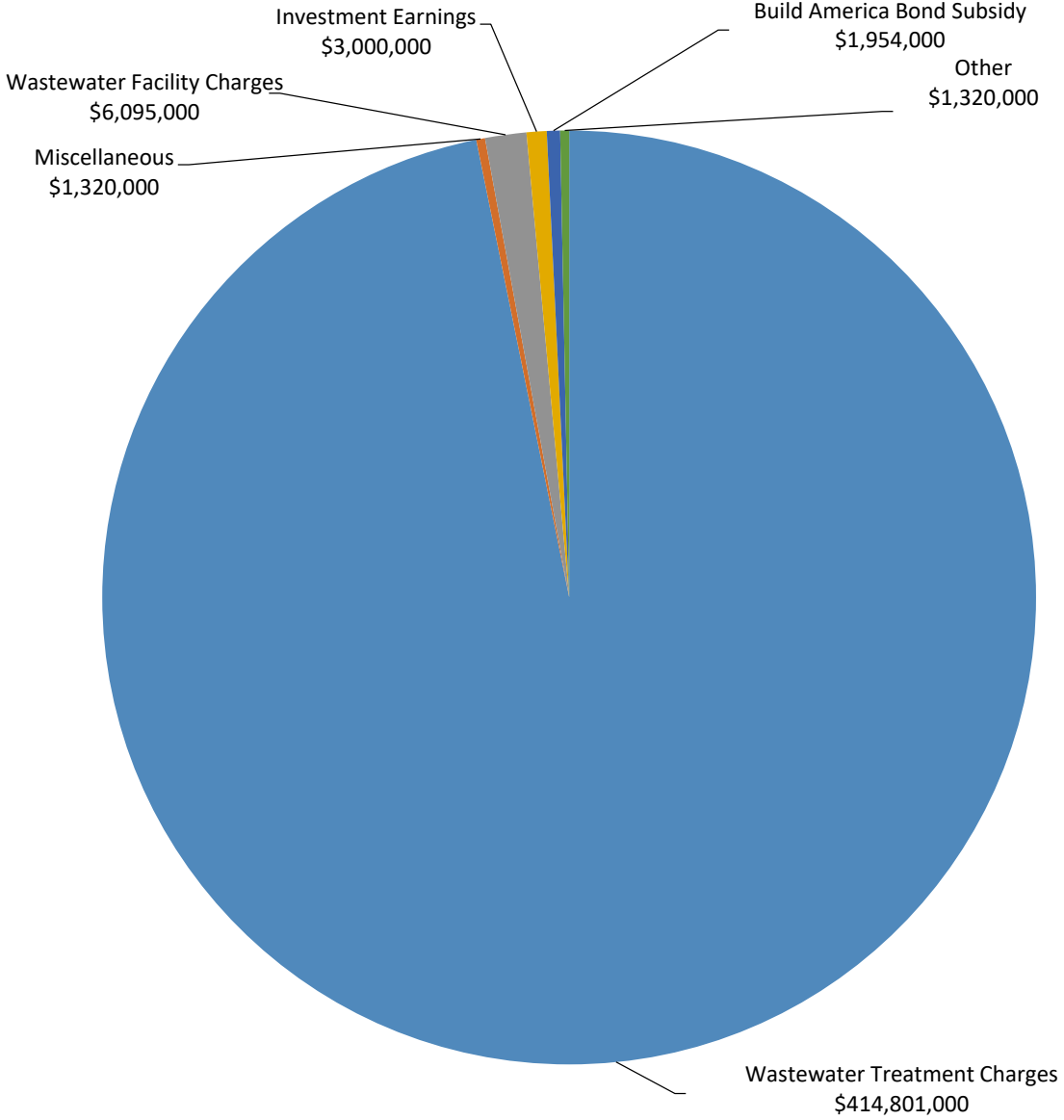
	Water Quality	General Expenses	FY-2024	Percent of Budget	FY-2023	FY24 vs FY23 Inc/(Dec)	Percent Change
Personal Services	\$ 9,789,769	\$ (4,238,725)	\$ 70,450,193	16.4%	\$ 63,288,297	\$ 7,161,896	11.3%
Fringe Benefits	3,821,385	(349,774)	28,485,720	6.6%	26,513,570	1,972,150	7.4%
Materials & Supplies	1,907,000	26,000	14,768,127	3.4%	12,309,985	2,458,142	20.0%
Transportation	40,862	-	1,993,014	0.5%	1,790,611	202,403	11.3%
Utilities	2,808	577,200	16,749,019	3.9%	14,948,819	1,800,200	12.0%
Chemical Purchases	-	-	17,093,255	4.0%	12,472,034	4,621,221	37.1%
Contractual Services	2,078,000	7,298,155	42,019,975	9.8%	44,891,488	(2,871,513)	(6.4%)
Major Repairs	43,400	-	10,354,024	2.4%	8,497,970	1,856,054	21.8%
Capital Assets	-	-	1,064,500	0.2%	447,684	616,816	137.8%
Miscellaneous Expense	615,850	891,650	3,884,803	0.9%	3,482,576	402,227	11.5%
Operating Appropriations	\$ 18,299,074	\$ 4,204,506	206,862,630	48.3%	188,643,034	18,219,596	9.7%
Debt Service Costs			76,150,000	17.8%	69,533,000	6,617,000	9.5%
Transfer to CIP			145,217,370	33.9%	129,412,966	15,804,404	12.2%
Transfer to Risk Management			260,000	0.1%	260,000	-	0.0%
Appropriations for Debt Service and Transfers			221,627,370	51.7%	199,205,966	22,421,404	11.3%
			\$ 428,490,000	100.0%	\$ 387,849,000	\$ 40,641,000	10.5%

Full-time Positions:

Current	120	878
Changes	2	27
Budgeted	122	905

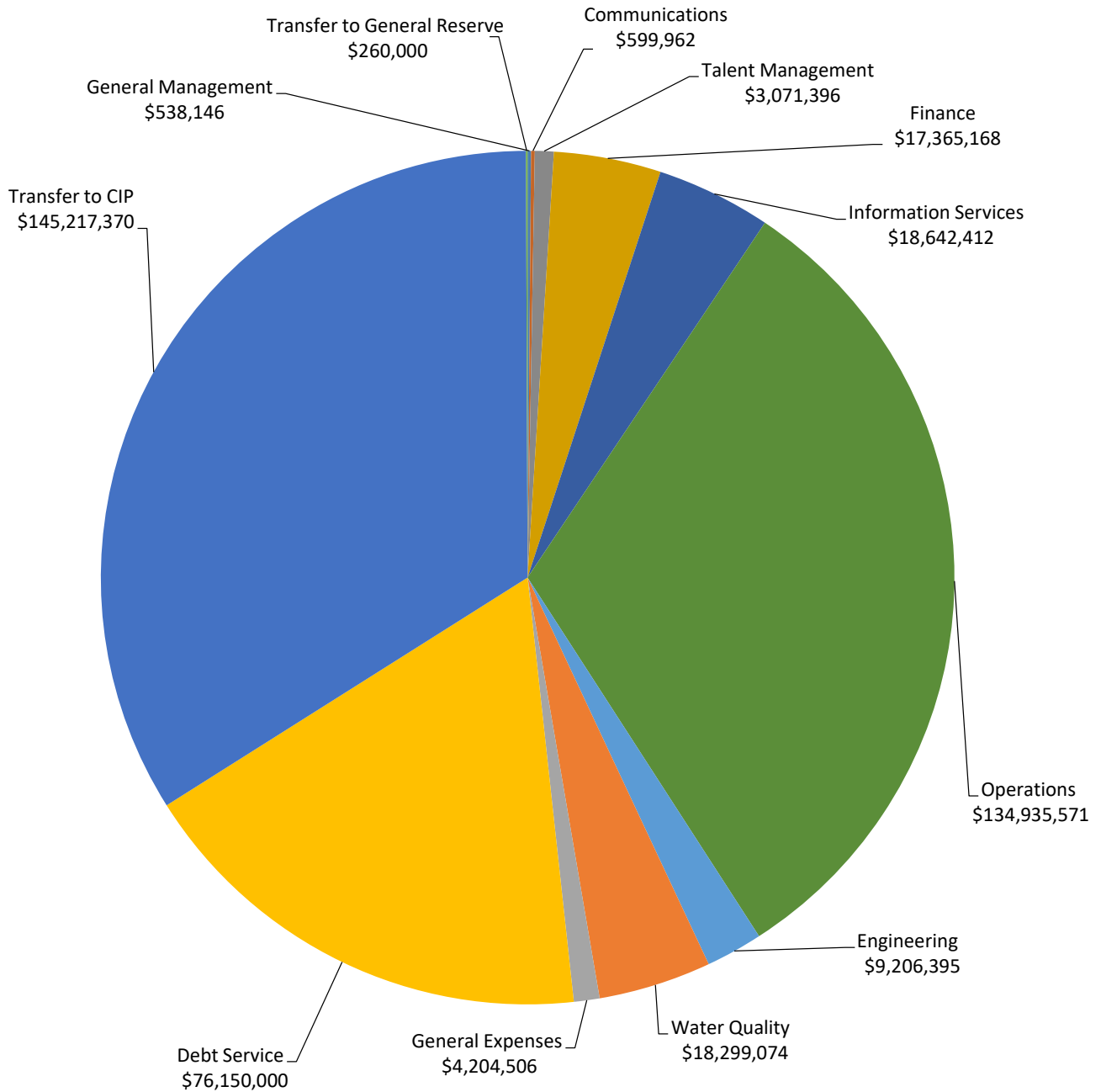
Operating Budget Charts

Revenues and Transfers In \$428,490,000



Operating Budget Charts

Expenses and Transfers Out \$428,490,000



General Management

The General Manager supervises the department directors and the Commission Secretary. The Commission Secretary provides administrative support to the General Manager as well as the HRSD Commission.

Expenditure Budget

	FY-2024 Budget	FY-2023 Budget	FY24 vs FY23 Inc/(Dec)	Percent Change
Personal Services	\$ 373,137	\$ 304,693	\$ 68,444	22.5%
Fringe Benefits	92,009	79,264	12,745	16.1%
Material & Supplies	10,000	10,000	-	0.0%
Transportation	12,500	12,000	500	4.2%
Contractual Services	20,000	20,000	-	0.0%
Miscellaneous	30,500	30,500	-	0.0%
Total	\$ 538,146	\$ 456,457	\$ 81,689	17.9%

Positions

	Grade	Adopted FY-2023	Adjustments	Final FY-2023	Adjustments	FY-2024
General Manager		1		1		1
Commission Secretary	7	1		1		1
Total		2	-	2	-	2

Communications

The Communications Department supports HRSD's mission and vision through public outreach, community engagement, educational programming and environmental and locality partnerships. The department manages communications strategy, internal and external communications, media relations and branding through numerous channels and resources - including publications, traditional media, social media and web, graphic design, speaking engagements, tours and special events.

Expenditure Budget

	FY-2024 Budget	FY-2023 Budget	FY24 vs FY23 Inc/(Dec)	Percent Change
Personal Services	\$ 401,623	\$ 360,261	\$ 41,362	11.5%
Fringe Benefits	135,039	122,250	12,789	10.5%
Material & Supplies	9,500	45,000	(35,500)	(78.9%)
Transportation	14,500	8,500	6,000	70.6%
Contractual Services	35,500	95,000	(59,500)	(62.6%)
Miscellaneous	3,800	9,500	(5,700)	(60.0%)
Total	\$ 599,962	\$ 640,511	\$ (40,549)	(6.3%)

Positions

	Grade	Adopted FY-23	Adjustments	Final FY-2023	Adjustments	FY-2024
Director of Communications	12	1		1		1
Public Information Specialist	6	2		2		2
Community Education and Outreach Specialist	6	1		1		1
Total		4	-	4	-	4

Finance

The Finance Department is responsible for HRSD's general financial and business functions, including financial reporting, investment portfolio, debt and risk management and customer billing. The Accounting Division handles fiscal affairs such as preparing statements, budgets, management reports and payroll. The Capital Finance Division is responsible for planning and financing the Capital Improvement Program, debt management and compliance, and is the functional lead for the Enterprise Resource Process system. The Customer Care Center Division handles billing, payments, collections, maintenance of customer accounts and liaison with HRSD's customers. The Procurement Division is responsible for purchasing, renting, leasing or otherwise acquiring goods, professional and non-professional services, and certain construction services, managing supplier relationships and disposing of surplus property.

Expenditure Budget

	FY-2024 Budget	FY-2023 Budget	FY24 vs FY23 Inc/(Dec)	Percent Change
Personal Services	\$ 7,821,681	\$ 6,545,190	\$ 1,276,491	19.5%
Fringe Benefits	3,104,592	2,573,254	531,338	20.6%
Material & Supplies	102,784	104,205	(1,421)	(1.4%)
Transportation	23,650	7,650	16,000	209.2%
Utilities	282,000	312,000	(30,000)	(9.6%)
Contractual Services	5,722,389	6,047,609	(325,220)	(5.4%)
Miscellaneous	308,072	255,823	52,249	20.4%
Total	\$ 17,365,168	\$ 15,845,731	\$ 1,519,437	9.6%

Positions

	Grade	Adopted FY-2023	Adjustments	Final FY-2023	Adjustments	FY-2024
Deputy General Manager/CFO		-	1	1		1
Director of Finance and Treasurer	12	1	(1)	-		-
Chief of Accounting & Finance	11	1		1		1
Chief of Capital Finance	11	1		1		1
Chief of Compliance & Risk	11	1		1		1
Chief of Customer Care Center	11	1		1		1
Chief of Procurement	11	1		1		1
Business Process Engineer	10	1		1		1
Accounting Manager	9	3		3		3
Customer Technology Manager	9	2		2		2
Customer Care Manager	9	3		3		3
Business Analyst	8	4		4		4
Financial Analyst	8	2		2		2
Grant Analyst	8	1		1		1
Procurement Analyst	8	2		2		2
Accounts Payable Supervisor	7	1		1		1
Customer Care Supervisor	7	4		4		4
Delinquency Management Analyst	7	1		1		1
Project Management System Information Analyst	7	1		1		1
Technical Analyst	7	-		-	1	1
Accounts Receivable Specialist	6	2		2		2
Payroll Specialist	6	1		1	1	2
ProCard & Contract Administrator	6	1		1		1
Procurement Specialist	6	5		5		5
Quality Call Monitor	6	-		-	1	1
Accounting Coordinator	4	1		1		1
Accounts Payable Coordinator	4	3		3		3
Accounts Receivable Technician	4	3		3		3
Administrative Coordinator	4	-	1	1		1
Customer Care Administrative Coordinator	4	1		1		1
Customer Care Coordinator	4	4		4	1	5
Procurement Coordinator	4	1		1		1
Technical Coordinator	4	-		-	2	2
Account Investigator	3	10	(1)	9		9
Customer Care Account Representative	3	36		36		36
Procurement Administrative Assistant	3	2		2		2
Mail Processing Clerk	2	2		2		2
Total		103	-	103	6	109

Information Technology

The Information Technology (IT) Department is responsible for HRSD's computer systems, communication systems, network infrastructure, cellular communications, cyber security, and data management functions. Staff also provides guidance and assistance in the identification and implementation of new technologies, enhancing both organizational efficiency and efficacy. The Cybersecurity Division is responsible for ensuring the confidentiality, integrity, and availability of all HRSD infrastructure, information systems and business data from malicious threats. The Enterprise Data Services Division is responsible for application integration and support, data management, and systems analysis and support. The Information Technology Operations Division supports departments in achieving their goals and objectives, providing the requisite hardware, software, storage, and network connectivity, to meet business and operational requirements.

Expenditure Budget

	FY-2024 Budget	FY-2023 Budget	FY24 vs FY23 Inc/(Dec)	Percent Change
Personal Services	\$ 6,506,396	\$ 5,463,613	\$ 1,042,783	19.1%
Fringe Benefits	2,085,746	1,778,021	307,725	17.3%
Material & Supplies	1,634,800	1,458,100	176,700	12.1%
Transportation	22,700	38,700	(16,000)	(41.3%)
Utilities	1,421,000	1,300,000	121,000	9.3%
Contractual Services	5,785,270	6,124,260	(338,990)	(5.5%)
Major Repairs	823,000	1,247,000	(424,000)	(34.0%)
Miscellaneous	363,500	373,500	(10,000)	(2.7%)
Total	\$ 18,642,412	\$ 17,783,194	\$ 859,218	4.8%

Positions

	Grade	Adopted FY-2023	Adjustments	Final FY-2023	Adjustments	FY-2024
Director of Information Technology	12	1		1		1
Chief Information Security Officer	11	1		1		1
Chief of Enterprise Data Services	11	1		1		1
Chief of IT Operations and Support	11	1		1		1
Chief of Technology and Innovation	11	-		-	1	1
Cybersecurity Solutions Architect	9	-		-	1	1
Database Administrator	9	3		3		3
Enterprise Architect	9	3		3		3
IT Systems Security Manager	9	1		1		1
Oracle Developer	9	2		2	1	3
Programming Development Manager	9	1		1		1
Senior Systems Engineer	9	7		7	1	8
Systems Analysis Manager	9	1		1		1
Cybersecurity Analyst	8	1		1	1	2
Senior Programmer Analyst	8	8		8		8
Senior Systems Analyst	8	5		5		5
SharePoint Web Developer	8	1		1		1
Linux Systems Administrator	8	2	1	3		3
Unix System Administrator	8	1	(1)	-		-
IT HelpDesk Supervisor	7	1		1		1
Desktop Support Analyst	6	6	1	7		7
Systems Analyst	6	1		1		1
Web Portal Programmer	6	1		1	1	2
Telecommunications Coordinator	5	1	(1)	-		-
IT Administrative Coordinator	4	1		1		1
Computer Operator	3	3		3		3
Total		54	-	54	6	60

Talent Management

The Talent Management Department attracts, develops, and retains a talented diverse workforce and ensures employee safety. The Human Resources Division is responsible for recruitment and outreach, new employee onboarding, benefits administration, compensation and classification, employee relations, HRSD's wellness program, workers' compensation, employee records, retirement, and HR policies. The Organizational Development and Training (ODT) Division oversees HRSD's Apprenticeship Program and is dedicated to developing and supporting HRSD's strategic plan and key initiatives to promote training, education, and experiential experiences. The Safety Division is responsible for Occupational Safety & Health Compliance, safety programs, employee safety training, safety records, industrial hygiene monitoring, occupational health screening, safety audits, accident investigations, compliance reporting, and risk management support.

Expenditure Budget

	FY-2024 Budget	FY-2023 Budget	FY24 vs FY23 Inc/(Dec)	Percent Change
Personal Services	\$ 1,942,297	\$ 1,713,691	\$ 228,606	13.3%
Fringe Benefits	691,649	585,149	106,500	18.2%
Material & Supplies	79,000	68,000	11,000	16.2%
Transportation	15,000	22,600	(7,600)	(33.6%)
Contractual Services	23,500	22,000	1,500	6.8%
Miscellaneous	319,950	203,302	116,648	57.4%
Total	\$ 3,071,396	\$ 2,614,742	\$ 456,654	17.5%

Positions

	Grade	Adopted FY-2023	Adjustments	Final FY-2023	Adjustments	FY-2024
Director of Talent Management	12	1		1		1
Chief of Human Resources	11	1		1		1
ODT Manager	10	1		1		1
Safety Manager	9	1		1		1
Human Resources Business Analyst	8	1		1		1
Human Resources Business Partner	8	3	(1)	2		2
Industrial Hygienist	8	2	(2)	-		-
Occupational Health & Safety Professional	8	-	3	3		3
Training Superintendent	8	1		1		1
Talent Acquisition Specialist	7	1	1	2		2
ODT Math Instructor	7	-		-	1	1
ODT Resource Specialist	7	1		1		1
Safety Specialist	7	-	1	1		1
Workforce Development Specialist	7	-		-	1	1
Safety Technician	5	2	(2)	-		-
Human Resources Coordinator	4	2		2	1	3
Organizational Development & Training Coordinator	4	1		1		1
Total		18	-	18	3	21

Operations

The Operations Department is responsible for operating and maintaining HRSD's treatment plants, pump stations, pipelines, buildings and equipment. HRSD provides wastewater treatment services for over 1.7 million people in 20 cities, counties and towns. The department also includes the Division of Water Technology and Research whose primary purpose is to research new technologies with a focus on rapid deployment of innovative solutions and water quality. Services are delivered through 9 divisions. There are three major treatment plant divisions. Services to small communities that are in the HRSD service area are provided by the Small Communities Division (SCD). The SCD operates four smaller treatment plants and the associated sewer collection systems for four counties on the Middle Peninsula and the Town of West Point. The SCD also includes the operation of two treatment plants and the associated sewer collection systems in the County of Surry. Finally, the SCD operates two treatment plants and the associated sewer collection services for the Towns of Nassawadox and Onancock on the Eastern Shore of Virginia. The Electrical and Instrumentation Division supports the electrical and instrumentation maintenance and construction needs of all HRSD facilities as well as programming industrial controls and automation at HRSD facilities. The two Interceptor Divisions operate and maintain over 500 miles of interceptor pipelines and over 100 pump stations ensuring wastewater is conveyed to each treatment plant. The Support Systems Division is responsible for the maintenance of the HRSD fleet, all buildings, operation of two carpentry shops, a full-service machine shop and managing an infrastructure assessment team. The department is also responsible for energy management and research to find innovative, cost-effective ways of managing our energy consumption more effectively.

Expenditure Budget

	FY-2024 Budget	FY-2023 Budget	FY24 vs FY23 Inc/(Dec)	Percent Change
Personal Services	\$ 42,081,052	\$ 36,510,683	\$ 5,570,369	15.3%
Fringe Benefits	16,941,679	15,007,975	1,933,704	12.9%
Material & Supplies	10,964,593	8,805,130	2,159,463	24.5%
Transportation	1,837,623	1,658,041	179,582	10.8%
Utilities	14,466,011	12,809,119	1,656,892	12.9%
Chemical Purchases	17,093,255	12,472,034	4,621,221	37.1%
Contractual Services	19,875,161	21,662,969	(1,787,808)	(8.3%)
Major Repairs	9,487,624	7,174,970	2,312,654	32.2%
Capital Assets	1,064,500	447,684	616,816	137.8%
Miscellaneous	1,124,073	990,508	133,565	13.5%
Total	\$ 134,935,571	\$ 117,539,113	\$ 17,396,458	14.8%

Positions

	Grade	Adopted FY-23	Adjustments	Final FY-2023	Adjustments	FY-2024
Director of Operations	12	1		1		1
Director of Water Technology and Research	12	1		1		1
Chief of Electrical & Instrumentation Division	11	1		1		1
Chief of Interceptor Operations North Shore	11	1		1		1
Chief of Interceptor Operations South Shore	11	1		1		1
Chief of Process Engineering & Research	11	1		1		1
Chief of Resource Recovery	11	-	1	1		1
Chief of Treatment	11	3		3		3
Energy Manager	11	1	(1)	-		-
Treatment Process Engineer	10	6		6		6
Electrical Manager	9	2		2		2
Industrial Automation Manager	9	1		1		1
Instrumentation Manager	9	2		2		2
Interceptor Engineer	9	2		2		2
Project Manager	9	1		1		1
Support Systems Manager	9	1		1		1
SWIFT Project Manager	9	1		1		1
Systems Manager	9	2		2		2
Automotive Superintendent	8	1		1		1
Coating, Concrete and Roofing Superintendent	8	1		1		1
Condition Assessment Superintendent	8	1		1		1
Construction Superintendent	8	1		1		1
Electrical & Instrumentation Process Technologist	8	6		6		6
Facility Superintendent	8	2		2		2
Industrial Automation Programmer	8	7		7		7
Interceptor Superintendent	8	2		2		2
Plant Superintendent	8	17		17		17
Chief Foreman	7	2		2		2
Chief Maintenance Management	7	2		2		2
Chief Systems Operator	7	2		2		2

Operations (Continued)

	Grade	Adopted FY-23	Adjustments	Final FY-2023	Adjustments	FY-2024
Electrical & Instrumentation Process Specialist	7	1		1		1
Electrical & Instrumentation Specialist	7	64	(1)	63		63
Interceptor Specialist	7	2		2		2
Lead Operator	7	33	1	34	2	36
Operations Support Specialist	7	1		1		1
Automotive Foreman	6	2		2		2
Coatings Inspector	6	2		2		2
Condition Assessment Supervisor	6	1		1		1
Interceptor Foreman	6	6		6		6
Interceptor Inspector	6	2		2		2
Interceptor Systems Supervisor	6	2		2		2
Machinist Foreman	6	1		1		1
Maintenance Planner	6	9		9		9
Pump Station Supervisor	6	2		2		2
Automotive Technician	5	5		5	1	6
Carpenter	5	2		2		2
Equipment Technician	5	3	(1)	2		2
Facility Maintenance Technician	5	2		2		2
Interceptor Technician	5	29	1	30		30
Machinist	5	2		2		2
Maintenance Operator	5	72		72	1	73
Plant Operator	5	76	1	77	(3)	74
Automotive Coordinator	4	1		1		1
Biosolids Driver/Operator	4	-		-	7	7
Heavy Equipment Operator 1	4	21		21		21
Materials Operations Coordinator	4	2		2		2
Operations Admin Coordinator	4	1		1		1
Operations Coordinator	4	2		2		2
Plant Administrative Assistant	3	8		8		8
SCADA Administrative Assistant	3	1		1		1
Interceptor Assistant	2	28		28		28
Maintenance Operations Assistant	2	37	(3)	34	(1)	33
Facility Assistant	1	1		1		1
Custodian	1	4		4		4
Subtotal Operations		497	(2)	495	7	502
Small Communities						
Chief of Small Communities	11	-	1	1		1
Systems Manager	9	1		1		1
Systems Superintendent	8	2		2		2
Systems Chief Foreman	7	1		1		1
Systems Lead Operator	7	3		3		3
Maintenance Planner	6	-	1	1		1
Systems Foreman	6	2		2		2
Maintenance Operator	5	-		-	1	1
Systems Operator	5	12		12	2	14
Administrative Coordinator	4	1		1		1
Heavy Equipment Operator 1	4	1		1		1
Maintenance Operations Assistant	2	3	(1)	2		2
SCD Lab Assistant	2	1		1		1
Subtotal Small Communities		27	1	28	3	31
Total		524	(1)	523	10	533

Engineering

The Engineering Department is responsible for facility planning, design and construction and related support. The Asset Management Division is responsible for the Computerized Maintenance Management System (CMMS), Condition Assessment, and Emergency Management procedures to extend the life of assets at the lowest life cycle cost. The Design and Construction Divisions deliver capital projects in a manner consistent with HRSD's quality standards. The Planning and Analysis Division manages numerous diverse functions including Hydraulic Modeling, Geographic Information System (GIS), Data Analysis and Records Management System and plans the capital infrastructure required to meet the region's future wastewater needs. The department is also responsible for all property and land acquisition to meet the needs of HRSD.

Expenditure Budget

	FY-2024 Budget	FY-2023 Budget	FY24 vs FY23 Inc/(Dec)	Percent Change
Personal Services	\$ 5,772,963	\$ 5,109,945	\$ 663,018	13.0%
Fringe Benefits	1,963,395	1,782,671	180,724	10.1%
Material & Supplies	34,450	25,050	9,400	37.5%
Transportation	26,179	15,420	10,759	69.8%
Contractual Services	1,182,000	998,200	183,800	18.4%
Miscellaneous	227,408	185,643	41,765	22.5%
Total	\$ 9,206,395	\$ 8,116,929	\$ 1,089,466	13.4%

Positions

	Grade	Adopted FY-2023	Adjustments	Final FY-2023	Adjustments	FY-2024
Director of Engineering	12	1		1		1
Chief of Asset Management	11	1		1		1
Chief of Design & Construction	11	2		2		2
Chief of Design & Construction - Special Projects	11	1		1		1
Chief of Design & Construction - SWIFT	11	1		1		1
Chief of Planning & Analysis	11	1		1		1
Condition Assessment Manager	9	2		2		2
Data Analysis Manager	9	1		1		1
Enterprise Data Scientist	9	1		1		1
GIS Manager	9	1		1		1
Hydraulic Analysis Manager	9	5		5		5
Project Manager	9	13		13		13
Real Estate Manager	8	3		3		3
Senior Data Analyst	8	-	4	4		4
Condition Assessment Analyst	7	1		1	1	2
CMMS Analyst	7	2		2		2
Data Analyst	7	6	(4)	2		2
GIS Analyst	7	2		2		2
Planning Engineer	7	1		1		1
Contract Specialist	6	4		4		4
GIS CAD Technician	5	2		2		2
Administrative Coordinator	4	1		1		1
Engineering Clerk	2	1		1		1
Total		53	-	53	1	54

Water Quality

The Water Quality (WQ) Department's mission is to provide quality environmental services to support HRSD and its partners. This department helps ensure compliance with HRSD environmental permits and leads regulatory advocacy through the work of three divisions. The Central Environmental Laboratory (CEL) Division uses the Environmental Data Management System (EDMS) and other tools to provide analytical support for numerous monitoring, research and regulatory purposes. The Pretreatment and Pollution Prevention (P3) Division monitors wastewater conveyed to treatment plants using the Pretreatment Information Management System (PIMS) and other tools, and implements its Industrial Wastewater Discharge Regulations to protect treatment plant staff, facilities and processes. The Technical Services Division (TSD) is responsible for activities including environmental monitoring, specialized sampling, treatment process and research studies, the Municipal Assistance Program (MAP) to assist localities, as well as all reporting required by HRSD permits.

Expenditure Budget

	FY-2024 Budget	FY-2023 Budget	FY24 vs FY23 Inc/(Dec)	Percent Change
Personal Services	\$ 9,789,769	\$ 8,740,031	\$ 1,049,738	12.0%
Fringe Benefits	3,821,385	3,448,350	373,035	10.8%
Material & Supplies	1,907,000	1,768,500	138,500	7.8%
Transportation	40,862	27,700	13,162	47.5%
Utilities	2,808	2,700	108	4.0%
Contractual Services	2,078,000	1,889,500	188,500	10.0%
Major Repairs	43,400	76,000	(32,600)	(42.9%)
Miscellaneous	615,850	624,350	(8,500)	(1.4%)
Total	\$ 18,299,074	\$ 16,577,131	\$ 1,721,943	10.4%

Positions

	Grade	Adopted FY-2023	Adjustments	Final FY-2023	Adjustments	FY-2024
Director of Water Quality	12	1		1		1
Chief of Lab	11	1		1		1
Chief of P3	11	1		1		1
Chief of TSD	11	1		1		1
TSD Hydrologist	10	1		1		1
Environmental Scientist	9	7		7		7
Lab Manager	9	4		4		4
Lab Systems Manager	9	-	1	1		1
Lab Quality Assurance Manager	9	1		1		1
LIMS Optimization Manager	9	1	(1)	-		-
P3 Manager	9	4		4		4
WQ/Ops Quality Assurance Manager	9	1		1		1
Lab EDMS Administrator	8	1		1		1
Lab Operations Manager	8	1	(1)	-		-
Lab Supervising Chemist	8	13		13	(2)	11
P3 PIMS Administrator	8	-	1	1		1
P3 Supervising Specialist	8	3		3		3
TSD Operations Manager	8	1		1		1
TSD Supervising Molecular Biologist	8	-		-	2	2
TSD Supervising Specialist	8	3	1	4		4
P3 Administrative Supervising Specialist	7	1		1		1
P3 PIMS Analyst	7	1	(1)	-		-
TSD Specialist	7	13	(1)	12	1	13
Lab EDMS Analyst	6	1		1		1
Lab Quality Assurance Specialist	6	1		1		1
Lab Specialist	6	14		14	1	15
P3 PIMS Analyst	6	-	1	1		1
P3 Specialist	6	5		5		5
WQ/Ops Quality Assurance Specialist	6	1		1		1
Lab Data Technician	5	1		1		1
Lab Technician	5	5		5		5
P3 Administrative Technician	5	1		1		1
P3 Technician	5	10		10		10
TSD Technician	5	8		8		8
CEL Operations Coordinator	4	1		1		1
Lab Assistant	4	7		7	1	8
Lab Data Coordinator	4	1		1		1
TSD Assistant	4	-	1	1		1
TSD Administrative Coordinator	4	1		1		1
P3 Administrative Assistant	3	2	(1)	1		1
TSD Assistant	2	1	(1)	-		-
Total		120	(1)	119	3	122

General Expenses, Debt Service and Transfers

General Expenses includes operating expenditures not assigned to any specific HRSD Department. Debt Service includes payments on bonds issued by HRSD and through the Virginia Clean Water Revolving Loan Fund (VCWRLF). Transfers are made to fund the Capital Improvement Program (CIP) and the Risk Management reserve. The costs incurred to issue bonds are included in General Expenses - Miscellaneous.

Expenditure Budget

	FY-2024 Budget	FY-2023 Budget	FY24 vs FY23 Inc/(Dec)	Percent Change
Personal Services	\$ (4,238,725)	\$ (1,459,809)	\$ (2,778,916)	190.4%
Fringe Benefits	(349,774)	1,136,636	(1,486,410)	(130.8%)
Material & Supplies	26,000	26,000	-	0.0%
Utilities	577,200	525,000	52,200	9.9%
Contractual Services	7,298,155	8,031,950	(733,795)	(9.1%)
Miscellaneous	891,650	809,450	82,200	10.2%
Total General Expenses	\$ 4,204,506	\$ 9,069,227	\$ (4,864,721)	(53.6%)
Publically Sold Bonds - Principal	24,650,000	23,630,000	1,020,000	4.3%
Publically Sold Bonds - Interest	25,025,000	24,553,000	472,000	1.9%
VRLF Bonds	26,475,000	21,350,000	5,125,000	24.0%
Subtotal Debt Service	76,150,000	69,533,000	6,617,000	9.5%
Transfer to CIP	145,217,370	129,412,966	15,804,403	12.2%
Transfer to Risk Management	260,000	260,000	-	0.0%
Subtotal Transfers	145,477,370	129,672,966	15,804,403	12.2%
Total Debt Service and Transfers	\$ 221,627,370	\$ 199,205,966	\$ 22,421,403	11.3%

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CAPITAL BUDGET

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Capital Budget

HRSD prepares a Capital Improvement Program (CIP) each year for the capital projects currently underway or proposed for the future. The first year of the CIP is authorized as the Capital Budget for FY-2024 in the amount of \$580 million. The remaining years (FY-2025 to FY-2033) include all known projects planned for these years; however, approval of the plan does not authorize the Capital Budgets for those years. Each year's Capital Budget will be approved during the budget process for the specific year.

The ten-year Capital Improvement Program for FY-2024 to FY-2033 highlights the anticipated cost of each project and the fiscal year(s) in which the work is expected to occur. All costs listed in the CIP are stated in current year dollars and total approximately \$3.9 billion.

The bond component of the plan may include one or all of the following:

- Interim or construction financings
- Federally subsidized borrowing programs administered by the Virginia Resource Authority and the Environmental Protection Agency
- HRSD Revenue Bonds or Notes

The grant component represents funds estimated to be received from a federal or state agency for specific projects. Other reimbursements, if any, include amounts paid by other parties who may participate in a project.

Capital Budget

CIP Budget Forecast (in thousands)	Total FY-2024					
	to FY-2033	FY-2024	FY-2025	FY-2026	FY-2027	FY-2028
Beginning Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds	244,345	-	244,345	-	-	-
VCWRLF	433,000	83,000	50,000	50,000	50,000	50,000
WIFIA	938,931	230,000	276,066	226,582	100,000	106,284
WQIF	499,000	139,000	40,000	40,000	40,000	40,000
Grants and Other Reimbursements	44,927	16,220	14,554	3,348	1,500	9,306
Cash	1,398,253	145,217	120,320	154,876	105,535	147,046
Transfer from Line of Credit	150,544	(33,437)	(284)	105,195	134,965	(20,636)
Total Capital Resources	3,709,000	580,000	745,000	580,000	432,000	332,000
Capital Expenditures	3,709,000	580,000	745,000	580,000	432,000	332,000
Ending Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Capital Expenditures (in thousands)	Total FY-2024					
	to FY-2033	FY-2024	FY-2025	FY-2026	FY-2027	FY-2028
Administration	\$ 86,998	\$ 8,120	\$ 13,321	\$ 20,676	\$ 19,676	\$ 10,121
Army Base	22,857	3,758	4,508	1,770	30	6,376
Atlantic	223,545	29,955	38,350	46,874	59,516	18,378
Boat Harbor	476,535	140,366	171,769	76,945	36,576	50,879
Chesapeake-Elizabeth	20,663	7,908	5,829	1,824	3,401	1,701
Eastern Shore	42,759	25,895	12,215	4,649	-	-
James River	281,286	91,870	73,057	67,616	25,608	4,645
Middle Peninsula	93,370	38,407	47,459	7,475	29	-
Nansemond	464,751	176,643	179,151	53,331	25,606	6,780
Surry	5,460	5,460	-	-	-	-
Virginia Initiative Plant	205,407	55,557	66,894	31,930	4,594	13,245
Williamsburg	86,379	3,840	8,092	9,391	4,479	-
York River	83,106	30,685	24,157	7,123	13,557	7,580
General	1,431,898	106,537	139,409	180,922	261,665	229,769
Future Improvements	338,934	-	-	-	-	-
Subtotal	3,863,947	725,000	784,211	510,526	454,737	349,474
Program Spend Rate		80%	95%	114%	95%	95%
Total Expenditures	\$ 3,863,947	\$ 580,000	\$ 745,000	\$ 580,000	\$ 432,000	\$ 332,000

These abbreviations are used throughout the CIP budget:

BH - Boat Harbor Treatment Plant
 CHES - City of Chesapeake
 DEMON - Deamonification
 HII-NNS - Huntington Ingalls Industries - Newport News Shipping
 HPP - High Point Project
 IFM - Interceptor Force Main
 MAR - Managed Aquifer Recharge
 MHI - Multiple Health Incinerator
 MIFAS - Moving Media Integrated Fixed-Film Activated Sludge
 PORTS - City of Portsmouth
 PRS - Pressure Reducing Station
 PS - Pump Station
 SCADA - Supervisor Control and Data Acquisition
 SF - Storage Facility
 SWIFT - Sustainable Water Initiative for Tomorrow
 VDOT - Virginia Department of Transportation
 VIP - Virginia Initiative Plant

Capital Budget

CIP Budget Forecast (in thousands)

	FY-2029	FY-2030	FY-2031	FY-2032	FY-2033
Beginning Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -
Bonds	-	-	-	-	-
VCWRLF	50,000	50,000	50,000	-	-
WIFIA	-	-	-	-	-
WQIF	40,000	40,000	40,000	40,000	40,000
Grants and Other Reimbursements	-	-	-	-	-
Cash	148,811	130,229	140,312	140,980	164,927
Transfer from Line of Credit	1,189	(20,229)	(30,312)	19,020	(4,927)
Total Capital Resources	240,000	200,000	200,000	200,000	200,000
Capital Expenditures	240,000	200,000	200,000	200,000	200,000
Ending Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ -

Capital Expenditures (in thousands)

	FY-2029	FY-2030	FY-2031	FY-2032	FY-2033
Administration	\$ 3,852	\$ 3,852	\$ 3,852	\$ 3,531	\$ -
Army Base	6,376	40	-	-	-
Atlantic	19	-	3,381	3,535	23,536
Boat Harbor	-	-	-	-	-
Chesapeake-Elizabeth	-	-	-	-	-
Eastern Shore	-	-	-	-	-
James River	16,729	-	-	-	1,761
Middle Peninsula	-	-	-	-	-
Nansemond	11,629	11,582	29	-	-
Surry	-	-	-	-	-
Virginia Initiative Plant	15,647	10,742	3,600	1,569	1,630
Williamsburg	-	-	6,726	7,990	45,860
York River	3	-	-	-	-
General	185,715	120,916	145,536	58,265	3,163
Future Improvements	30	52,868	36,876	125,110	124,050
Subtotal	240,000	200,000	200,000	200,000	200,000
Program Spend Rate	100%	100%	100%	100%	100%
Total Expenditures	\$ 240,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000

FY-2024 to FY-2033

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2024 to FY-2033	FY-2024	FY-2025	FY-2026	FY-2027	FY-2028
Administration							
AD012500	Cybersecurity Practice & Procedure Initiative	\$ 10,900	\$ 2,200	\$ 2,200	\$ 3,000	\$ 2,000	\$ 1,500
AD012600	Central Environmental Laboratory Expansion and Rehabilitation	\$ 42,106	\$ 2,420	\$ 7,269	\$ 13,824	\$ 13,824	\$ 4,769
AD012700	Capital Improvement Program Labor Program	\$ 30,492	\$ -	\$ 3,852	\$ 3,852	\$ 3,852	\$ 3,852
AD012720	Capital Improvement Program Internal Labor FY24	\$ 3,500	\$ 3,500	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 86,998	\$ 8,120	\$ 13,321	\$ 20,676	\$ 19,676	\$ 10,121
Army Base							
AB010000	Army Base 24-Inch and 20-Inch Transmission Main Replacements	\$ 12,822	\$ -	\$ -	\$ -	\$ 30	\$ 6,376
AB010500	Section W Force Main Replacement	\$ 2,452	\$ 1,330	\$ 1,118	\$ 5	\$ -	\$ -
AB011900	Army Base Treatment Plant Administration Building Renovation (2021)	\$ 3,574	\$ 1,802	\$ 1,772	\$ -	\$ -	\$ -
AB012100	Army Base Treatment Plant Generator Control Replacement	\$ 4,009	\$ 626	\$ 1,618	\$ 1,765	\$ -	\$ -
	Subtotal	\$ 22,857	\$ 3,758	\$ 4,508	\$ 1,770	\$ 30	\$ 6,376
Atlantic							
AT011520	Shipp's Corner Pressure Reducing Station Modifications	\$ 1,381	\$ 185	\$ 1,196	\$ -	\$ -	\$ -
AT011900	Great Bridge Interceptor Extension 16-Inch Replacement	\$ 10,412	\$ 5,189	\$ 5,223	\$ -	\$ -	\$ -
AT012920	Atlantic Treatment Plant Access Road Extension	\$ 10,603	\$ 976	\$ 1,855	\$ 4,909	\$ 2,864	\$ -
AT013000	Washington District Pump Station Area Sanitary Sewer Improvements	\$ 8,408	\$ 4,033	\$ 4,033	\$ 342	\$ -	\$ -
AT013010	Washington District Pump Station Replacement	\$ 9,218	\$ 3,033	\$ 4,941	\$ 1,244	\$ -	\$ -
AT013110	South Norfolk Area Gravity Sewer Improvements, Phase II	\$ 6,518	\$ 2,451	\$ 4,067	\$ -	\$ -	\$ -
AT013700	Atlantic Trunk Interceptor Force Main Relocation (VDOT Laskin Road Betterment)	\$ 86	\$ 86	\$ -	\$ -	\$ -	\$ -
AT014000	Lynnhaven-Great Neck IFM (SF-021) Relocation	\$ 2,500	\$ -	\$ 2,500	\$ -	\$ -	\$ -
AT014100	Suffolk Regional Landfill Transmission Force Main	\$ 4,000	\$ 4,000	\$ -	\$ -	\$ -	\$ -
AT014301	Atlantic Service Area I-I Reduction Phase I (CHES)	\$ 13,635	\$ 1,143	\$ 761	\$ 999	\$ 6,547	\$ 4,169
AT014302	Atlantic Service Area I-I Reduction Phase II (CHES)	\$ 11,755	\$ 1,159	\$ 729	\$ 760	\$ 5,554	\$ 3,549
AT014303	Chesapeake Pump Station Capacity Improvements (AT-HPP-01C)	\$ 991	\$ -	\$ -	\$ 55	\$ 198	\$ 738
AT014600	Kempsville Interceptor Force Main Replacement - Phase I	\$ 6,201	\$ 111	\$ 369	\$ 1,350	\$ 3,488	\$ 884
AT015200	Cedar Road Interceptor Force Main Replacement Phase I	\$ 6,445	\$ 149	\$ 349	\$ 1,148	\$ 3,565	\$ 1,234
AT015300	High Priority Projects Round 2 Project 2	\$ 30,738	\$ -	\$ -	\$ -	\$ -	\$ -
AT015400	Doziers Corner Pump Station Replacement	\$ 10,952	\$ 548	\$ 6,328	\$ 4,075	\$ -	\$ -
AT015500	Atlantic Treatment Plant Secondary Clarifier Effluent Weir Replacement and Enhancements	\$ 1,431	\$ 1,431	\$ -	\$ -	\$ -	\$ -
AT015800	Atlantic Treatment Plant Liquid Side Odor Evaluation and Improvements	\$ 1,554	\$ 1,433	\$ 121	\$ -	\$ -	\$ -
AT015900	Atlantic Treatment Plant Gravity Belt Thickener and Pre-Dewatering Polymer Improvements	\$ 6,352	\$ 164	\$ 166	\$ 2,440	\$ 2,920	\$ 662
AT016000	Atlantic Treatment Plant Odor and Solids Improvements 2023	\$ 54,520	\$ 2,592	\$ 2,660	\$ 19,934	\$ 23,913	\$ 5,421
AT016100	Atlantic Treatment Plant Solids Curing Facility and Pad Improvements	\$ 11,661	\$ 512	\$ 574	\$ 4,282	\$ 5,130	\$ 1,164
AT016300	Cedar Road Interceptor Force Main Replacement Phase II	\$ 14,468	\$ 760	\$ 2,477	\$ 5,337	\$ 5,337	\$ 557
	Subtotal	\$ 223,545	\$ 29,955	\$ 38,350	\$ 46,874	\$ 59,516	\$ 18,378
Boat Harbor							
BH013020	Willard Avenue Pump Station Replacement	\$ 10,658	\$ 7,095	\$ 3,557	\$ 6	\$ -	\$ -
BH014000	West Avenue and 35th Street Interceptor Force Main Replacement	\$ 5	\$ 5	\$ -	\$ -	\$ -	\$ -
BH014220	Hampton Trunk Sewer Extension Divisions I and J Relocation Phase II	\$ 7,239	\$ 5,779	\$ 1,456	\$ 4	\$ -	\$ -
BH014500	Ivy Home-Shell Road Sewer Extension Division I Replacement	\$ 1,331	\$ 1,326	\$ 5	\$ -	\$ -	\$ -
BH014600	46th Street Diversion Sewer Rehabilitation Replacement	\$ 1,454	\$ 1,454	\$ -	\$ -	\$ -	\$ -
BH014610	46th Street Diversion Sewer Rehabilitation Replacement, HII-NNS	\$ 2,158	\$ 2,158	\$ -	\$ -	\$ -	\$ -
BH014900	Hampton Trunk Sewer Extension Division K Gravity Improvements	\$ 1,495	\$ 987	\$ 501	\$ 8	\$ -	\$ -
BH015700	Boat Harbor Treatment Plant Pump Station Conversion	\$ 191,193	\$ 35,094	\$ 83,885	\$ 65,161	\$ 7,053	\$ -
BH015710	Boat Harbor Treatment Plant Transmission Force Main Section 1 (Subaqueous)	\$ 130,278	\$ 67,330	\$ 59,862	\$ 3,087	\$ -	\$ -
BH015720	Boat Harbor Treatment Plant Transmission Force Main Section 2 (Land)	\$ 38,019	\$ 18,628	\$ 19,391	\$ -	\$ -	\$ -
BH015730	Boat Harbor Treatment Plant Decommission and Demolition	\$ 51,833	\$ -	\$ 780	\$ 2,195	\$ 23,025	\$ 25,833
BH015802	Claremont Pump Station Upgrade (BH-HPP-01B)	\$ 12,772	\$ -	\$ -	\$ 327	\$ 1,045	\$ 11,400
BH015803	Chesapeake Avenue Interceptor Improvements (BH-HPP-01C)	\$ 17,254	\$ -	\$ -	\$ 1,389	\$ 2,242	\$ 13,623
BH015900	Bloxoms Corner Force Main Replacement	\$ 245	\$ 245	\$ -	\$ -	\$ -	\$ -
BH016100	High Priority Projects Round 2 Project 3	\$ 30,200	\$ -	\$ -	\$ -	\$ -	\$ -
BH016200	Inflow Reduction Program - Phase II	\$ 10,600	\$ 265	\$ 2,332	\$ 4,770	\$ 3,210	\$ 23
	Subtotal	\$ 476,535	\$ 140,366	\$ 171,769	\$ 76,945	\$ 36,576	\$ 50,879

FY-2024 to FY-2033

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2029	FY-2030	FY-2031	FY-2032	FY-2033
Administration						
AD012500	Cybersecurity Practice & Procedure Initiative	\$ -	\$ -	\$ -	\$ -	\$ -
AD012600	Central Environmental Laboratory Expansion and Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
AD012700	Capital Improvement Program Labor Program	\$ 3,852	\$ 3,852	\$ 3,852	\$ 3,531	\$ -
AD012720	Capital Improvement Program Internal Labor FY24	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 3,852	\$ 3,852	\$ 3,852	\$ 3,531	\$ -
Army Base						
AB010000	Army Base 24-Inch and 20-Inch Transmission Main Replacements	\$ 6,376	\$ 40	\$ -	\$ -	\$ -
AB010500	Section W Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AB011900	Army Base Treatment Plant Administration Building Renovation (2021)	\$ -	\$ -	\$ -	\$ -	\$ -
AB012100	Army Base Treatment Plant Generator Control Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 6,376	\$ 40	\$ -	\$ -	\$ -
Atlantic						
AT011520	Shipp's Corner Pressure Reducing Station Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
AT011900	Great Bridge Interceptor Extension 16-Inch Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AT012920	Atlantic Treatment Plant Access Road Extension	\$ -	\$ -	\$ -	\$ -	\$ -
AT013000	Washington District Pump Station Area Sanitary Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
AT013010	Washington District Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AT013110	South Norfolk Area Gravity Sewer Improvements, Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
AT013700	Atlantic Trunk Interceptor Force Main Relocation (VDOT Laskin Road Betterment)	\$ -	\$ -	\$ -	\$ -	\$ -
AT014000	Lynnhaven-Great Neck IFM (SF-021) Relocation	\$ -	\$ -	\$ -	\$ -	\$ -
AT014100	Suffolk Regional Landfill Transmission Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
AT014301	Atlantic Service Area I-I Reduction Phase I (CHES)	\$ 16	\$ -	\$ -	\$ -	\$ -
AT014302	Atlantic Service Area I-I Reduction Phase II (CHES)	\$ 4	\$ -	\$ -	\$ -	\$ -
AT014303	Chesapeake Pump Station Capacity Improvements (AT-HPP-01C)	\$ -	\$ -	\$ -	\$ -	\$ -
AT014600	Kempsville Interceptor Force Main Replacement - Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
AT015200	Cedar Road Interceptor Force Main Replacement Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
AT015300	High Priority Projects Round 2 Project 2	\$ -	\$ -	\$ 3,381	\$ 3,535	\$ 23,536
AT015400	Doziers Corner Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
AT015500	Atlantic Treatment Plant Secondary Clarifier Effluent Weir Replacement and Enhancements	\$ -	\$ -	\$ -	\$ -	\$ -
AT015800	Atlantic Treatment Plant Liquid Side Odor Evaluation and Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
AT015900	Atlantic Treatment Plant Gravity Belt Thickener and Pre-Dewatering Polymer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
AT016000	Atlantic Treatment Plant Odor and Solids Improvements 2023	\$ -	\$ -	\$ -	\$ -	\$ -
AT016100	Atlantic Treatment Plant Solids Curing Facility and Pad Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
AT016300	Cedar Road Interceptor Force Main Replacement Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 19	\$ -	\$ 3,381	\$ 3,535	\$ 23,536
Boat Harbor						
BH013020	Willard Avenue Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH014000	West Avenue and 35th Street Interceptor Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH014220	Hampton Trunk Sewer Extension Divisions I and J Relocation Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
BH014500	Ivy Home-Shell Road Sewer Extension Division I Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH014600	46th Street Diversion Sewer Rehabilitation Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH014610	46th Street Diversion Sewer Rehabilitation Replacement, HII-NNS	\$ -	\$ -	\$ -	\$ -	\$ -
BH014900	Hampton Trunk Sewer Extension Division K Gravity Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
BH015700	Boat Harbor Treatment Plant Pump Station Conversion	\$ -	\$ -	\$ -	\$ -	\$ -
BH015710	Boat Harbor Treatment Plant Transmission Force Main Section 1 (Subaqueous)	\$ -	\$ -	\$ -	\$ -	\$ -
BH015720	Boat Harbor Treatment Plant Transmission Force Main Section 2 (Land)	\$ -	\$ -	\$ -	\$ -	\$ -
BH015730	Boat Harbor Treatment Plant Decommission and Demolition	\$ -	\$ -	\$ -	\$ -	\$ -
BH015802	Claremont Pump Station Upgrade (BH-HPP-01B)	\$ -	\$ -	\$ -	\$ -	\$ -
BH015803	Chesapeake Avenue Interceptor Improvements (BH-HPP-01C)	\$ -	\$ -	\$ -	\$ -	\$ -
BH015900	Bloxoms Corner Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
BH016100	High Priority Projects Round 2 Project 3	\$ -	\$ -	\$ -	\$ -	\$ -
BH016200	Inflow Reduction Program - Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -

FY-2024 to FY-2033

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2024 to FY-2033	FY-2024	FY-2025	FY-2026	FY-2027	FY-2028
Chesapeake-Elizabeth							
CE011300	Birchwood Trunk 24-Inch and 30-Inch Force Main at Independence Boulevard Replacement Phase II	\$ 2,010	\$ 1,198	\$ 812	\$ -	\$ -	\$ -
CE011600	Poplar Hall Davis Corner Trunk 24-Inch Gravity Sewer Improvements	\$ 1,989	\$ 1,175	\$ 814	\$ -	\$ -	\$ -
CE011810	Chesapeake-Elizabeth Treatment Plant Decommissioning	\$ 8,123	\$ 4,337	\$ 3,786	\$ -	\$ -	\$ -
CE011837	Private Pump Station Improvements	\$ 433	\$ 433	\$ -	\$ -	\$ -	\$ -
CE011841	Oceana Off-line Storage Facility Land Acquisition	\$ 469	\$ 469	\$ -	\$ -	\$ -	\$ -
CE011850	Atlantic Service Area Automated Diversion Facilities Phase I	\$ 200	\$ 200	\$ -	\$ -	\$ -	\$ -
CE012100	Witchduck Road Interceptor Force Main Improvements	\$ 7,438	\$ 95	\$ 417	\$ 1,824	\$ 3,401	\$ 1,701
	Subtotal	\$ 20,663	\$ 7,908	\$ 5,829	\$ 1,824	\$ 3,401	\$ 1,701
Eastern Shore							
ES010100	Eastern Shore Infrastructure Improvements - Transmission Force Main Phase I	\$ 22,451	\$ 18,091	\$ 4,361	\$ -	\$ -	\$ -
ES010300	Onancock Treatment Plant Administration Building Upgrade	\$ 4,341	\$ 193	\$ 177	\$ 3,971	\$ -	\$ -
ES010400	Northern Accomack Wastewater Conveyance, Treatment, and Disposal Study	\$ 244	\$ 244	\$ -	\$ -	\$ -	\$ -
ES010500	Chincoteague Treatment Plant	\$ 5,952	\$ 3,711	\$ 2,241	\$ -	\$ -	\$ -
ES010600	Onancock Meter Replacement	\$ 2,106	\$ 1,852	\$ 254	\$ -	\$ -	\$ -
ES010800	Onancock Treatment Plant Solids Handling Improvements	\$ 6,694	\$ 1,667	\$ 4,616	\$ 411	\$ -	\$ -
ES010900	Riverside Nassawadox Treatment Plant Decommissioning	\$ 970	\$ 138	\$ 566	\$ 267	\$ -	\$ -
	Subtotal	\$ 42,759	\$ 25,895	\$ 12,215	\$ 4,649	\$ -	\$ -
James River							
JR011730	Jefferson Avenue Interceptor Force Main Replacement Phase III	\$ 13,300	\$ 9,968	\$ 3,329	\$ 3	\$ -	\$ -
JR013200	Lucas Creek-Woodhaven Interceptor Force Main Replacement Phase II	\$ 2,302	\$ 2,298	\$ 4	\$ -	\$ -	\$ -
JR013400	James River Treatment Plant Advanced Nutrient Reduction Improvements	\$ 194,530	\$ 58,929	\$ 59,163	\$ 59,163	\$ 17,275	\$ -
JR013401	James River Treatment Plant MIFAS Conversion Emergency	\$ 1,640	\$ 679	\$ 679	\$ 283	\$ -	\$ -
JR013410	James River Treatment Plant Outfall Modifications	\$ 1,350	\$ 750	\$ 190	\$ 203	\$ 203	\$ 5
JR013500	Lucas Creek Pump Station Replacement	\$ 15,438	\$ 9,747	\$ 5,691	\$ -	\$ -	\$ -
JR013610	James River Treatment Plant Automation Improvements Phase I	\$ 9,536	\$ 8,732	\$ 804	\$ -	\$ -	\$ -
JR013620	James River Treatment Plant Automation Improvements Phase II	\$ 10,970	\$ -	\$ 240	\$ 880	\$ 5,214	\$ 4,635
JR013700	High Priority Projects Round 2 Project 6	\$ 19,565	\$ -	\$ -	\$ -	\$ -	\$ -
JR013800	James River Treatment Plant Shoreline Stabilization	\$ 62	\$ 62	\$ -	\$ -	\$ -	\$ -
JR014000	Center Avenue Force Main Replacement	\$ 19,233	\$ -	\$ 1,833	\$ 665	\$ -	\$ 5
JR014100	James River Treatment Plant Viewshed Improvements	\$ 430	\$ -	\$ 112	\$ 58	\$ 260	\$ -
JR014200	Kiln Creek Interceptor Force Main Replacement	\$ 10,734	\$ 705	\$ 1,013	\$ 6,361	\$ 2,655	\$ -
	Subtotal	\$ 281,286	\$ 91,870	\$ 73,057	\$ 67,616	\$ 25,608	\$ 4,645
Middle Peninsula							
MP011700	Middle Peninsula Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements	\$ 752	\$ 721	\$ 11	\$ 11	\$ 8	\$ -
MP012000	King William Treatment Plant Improvements Phase I	\$ 63	\$ 62	\$ 1	\$ -	\$ -	\$ -
MP013300	King William Treatment Plant Improvements Phase II	\$ 29,388	\$ 5,272	\$ 18,057	\$ 6,046	\$ 13	\$ -
MP013500	Middlesex Collection System-Cooks Corner	\$ 849	\$ 849	\$ -	\$ -	\$ -	\$ -
MP013710	Middlesex Interceptor System Program Phase II-Saluda Pump Station	\$ 2,497	\$ 1,246	\$ 1,246	\$ 5	\$ -	\$ -
MP013720	Middlesex Interceptor System Program Phase II-Hartfield Pump Station	\$ 6,382	\$ 3,189	\$ 3,189	\$ 5	\$ -	\$ -
MP013730	Middlesex Interceptor System Program Phase II-Transmission Force Main	\$ 32,075	\$ 16,035	\$ 16,035	\$ 5	\$ -	\$ -
MP013810	Middlesex Interceptor System Program Phase III (Deltaville)	\$ 2,313	\$ 348	\$ 1,959	\$ 7	\$ -	\$ -
MP014410	Middlesex County Hartfield Sewer Collection System Phase I Improvements	\$ 2,004	\$ 2,000	\$ 4	\$ -	\$ -	\$ -
MP014510	Middlesex County Saluda Sewer Collection System Phase I	\$ 209	\$ 206	\$ 4	\$ -	\$ -	\$ -
MP014700	Small Communities Rehabilitation Phase IV	\$ 1,760	\$ 1,400	\$ 357	\$ 3	\$ -	\$ -
MP014800	Small Communities Rehabilitation Phase V	\$ 461	\$ 340	\$ 119	\$ 3	\$ -	\$ -
MP014900	Middle Peninsula Operations Center Locker Room and Administrative Facilities	\$ 2	\$ 2	\$ -	\$ -	\$ -	\$ -
MP015000	Sharon Road Gravity Sewer Improvements	\$ 1,059	\$ 1,056	\$ 3	\$ -	\$ -	\$ -
MP015100	West Point Pump Station 4 (Thompson Avenue) Rehabilitation	\$ 1,252	\$ 997	\$ 253	\$ 1	\$ -	\$ -
MP015300	King William Central Crossing Pump Station Rehabilitation	\$ 1,727	\$ 887	\$ 835	\$ 4	\$ -	\$ -
MP015500	Small Communities Rehabilitation Phase VI	\$ 2,692	\$ 2,014	\$ 676	\$ 3	\$ -	\$ -
MP015600	West Point Treatment Plant Final Effluent Pump Station Improvements	\$ 2,710	\$ 629	\$ 1,461	\$ 615	\$ 4	\$ -
MP015700	West Point Treatment Plant Secondary Clarifier Improvements	\$ 3,436	\$ 845	\$ 1,822	\$ 765	\$ 4	\$ -
MP015800	King William Main Pump Station Improvements	\$ 1,340	\$ 100	\$ 1,236	\$ 4	\$ -	\$ -
MP015900	Middle Peninsula Wastewater Master Plan	\$ 400	\$ 209	\$ 191	\$ -	\$ -	\$ -
	Subtotal	\$ 93,370	\$ 38,407	\$ 47,459	\$ 7,475	\$ 29	\$ -

FY-2024 to FY-2033

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2029	FY-2030	FY-2031	FY-2032	FY-2033
Chesapeake-Elizabeth						
CE011300	Birchwood Trunk 24-Inch and 30-Inch Force Main at Independence Boulevard Replacement Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
CE011600	Poplar Hall Davis Corner Trunk 24-Inch Gravity Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
CE011810	Chesapeake-Elizabeth Treatment Plant Decommissioning	\$ -	\$ -	\$ -	\$ -	\$ -
CE011837	Private Pump Station Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
CE011841	Oceana Off-line Storage Facility Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
CE011850	Atlantic Service Area Automated Diversion Facilities Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
CE012100	Witchduck Road Interceptor Force Main Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -
Eastern Shore						
ES010100	Eastern Shore Infrastructure Improvements - Transmission Force Main Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
ES010300	Onancock Treatment Plant Administration Building Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -
ES010400	Northern Accomack Wastewater Conveyance, Treatment, and Disposal Study	\$ -	\$ -	\$ -	\$ -	\$ -
ES010500	Chincoteague Treatment Plant	\$ -	\$ -	\$ -	\$ -	\$ -
ES010600	Onancock Meter Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
ES010800	Onancock Treatment Plant Solids Handling Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
ES010900	Riverside Nassawadox Treatment Plant Decommissioning	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -
James River						
JR011730	Jefferson Avenue Interceptor Force Main Replacement Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
JR013200	Lucas Creek-Woodhaven Interceptor Force Main Replacement Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
JR013400	James River Treatment Plant Advanced Nutrient Reduction Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
JR013401	James River Treatment Plant MIFAS Conversion Emergency	\$ -	\$ -	\$ -	\$ -	\$ -
JR013410	James River Treatment Plant Outfall Modifications	\$ -	\$ -	\$ -	\$ -	\$ -
JR013500	Lucas Creek Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
JR013610	James River Treatment Plant Automation Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
JR013620	James River Treatment Plant Automation Improvements Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
JR013700	High Priority Projects Round 2 Project 6	\$ -	\$ -	\$ -	\$ -	\$ 1,761
JR013800	James River Treatment Plant Shoreline Stabilization	\$ -	\$ -	\$ -	\$ -	\$ -
JR014000	Center Avenue Force Main Replacement	\$ 16,729	\$ -	\$ -	\$ -	\$ -
JR014100	James River Treatment Plant Viewshed Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
JR014200	Kiln Creek Interceptor Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 16,729	\$ -	\$ -	\$ -	\$ 1,761
Middle Peninsula						
MP011700	Middle Peninsula Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements	\$ -	\$ -	\$ -	\$ -	\$ -
MP012000	King William Treatment Plant Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
MP013300	King William Treatment Plant Improvements Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
MP013500	Middlesex Collection System-Cooks Corner	\$ -	\$ -	\$ -	\$ -	\$ -
MP013710	Middlesex Interceptor System Program Phase II-Saluda Pump Station	\$ -	\$ -	\$ -	\$ -	\$ -
MP013720	Middlesex Interceptor System Program Phase II-Hartfield Pump Station	\$ -	\$ -	\$ -	\$ -	\$ -
MP013730	Middlesex Interceptor System Program Phase II-Transmission Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
MP013810	Middlesex Interceptor System Program Phase III (Deltaville)	\$ -	\$ -	\$ -	\$ -	\$ -
MP014410	Middlesex County Hartfield Sewer Collection System Phase I Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP014510	Middlesex County Saluda Sewer Collection System Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
MP014700	Small Communities Rehabilitation Phase IV	\$ -	\$ -	\$ -	\$ -	\$ -
MP014800	Small Communities Rehabilitation Phase V	\$ -	\$ -	\$ -	\$ -	\$ -
MP014900	Middle Peninsula Operations Center Locker Room and Administrative Facilities	\$ -	\$ -	\$ -	\$ -	\$ -
MP015000	Sharon Road Gravity Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP015100	West Point Pump Station 4 (Thompson Avenue) Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
MP015300	King William Central Crossing Pump Station Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
MP015500	Small Communities Rehabilitation Phase VI	\$ -	\$ -	\$ -	\$ -	\$ -
MP015600	West Point Treatment Plant Final Effluent Pump Station Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP015700	West Point Treatment Plant Secondary Clarifier Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP015800	King William Main Pump Station Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
MP015900	Middle Peninsula Wastewater Master Plan	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -

FY-2024 to FY-2033

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2024 to FY-2033	FY-2024	FY-2025	FY-2026	FY-2027	FY-2028
Nansemond							
NP010620	Suffolk Pump Station Replacement	\$ 31,328	\$ 10,452	\$ 12,526	\$ 8,351	\$ -	\$ -
NP012400	Western Branch Sewer System Gravity Improvements	\$ 4,722	\$ 184	\$ 2,840	\$ 1,698	\$ -	\$ -
NP013000	Nansemond Treatment Plant Motor Control Center Replacements	\$ 1,851	\$ 1,169	\$ 682	\$ -	\$ -	\$ -
NP013700	Nansemond Treatment Plant Struvite Recovery Facility Improvements	\$ 25,446	\$ 19,082	\$ 6,363	\$ 1	\$ -	\$ -
NP013820	Nansemond Treatment Plant Advanced Nutrient Reduction Improvements Ph II	\$ 274,459	\$ 118,923	\$ 131,763	\$ 23,773	\$ -	\$ -
NP013901	Nansemond Service Area I-I Reduction Phase II (CHES)	\$ 18,144	\$ -	\$ -	\$ -	\$ 1,198	\$ 1,491
NP013902	Nansemond Service Area I-I Reduction Phase III (CHES)	\$ 18,057	\$ -	\$ 963	\$ 1,359	\$ 2,776	\$ 5,175
NP014000	Wilroy Pressure Reducing Station and Off-line Storage Facility	\$ 40,964	\$ 2,693	\$ 8,769	\$ 16,092	\$ 13,410	\$ -
NP014500	Nansemond Treatment Plant Regional Residuals Facility Upgrade	\$ 1,953	\$ 1,945	\$ 8	\$ -	\$ -	\$ -
NP014600	West Road Interceptor Force Main Extension	\$ 12,105	\$ 6,025	\$ 6,027	\$ 53	\$ -	\$ -
NP014700	Nansemond Treatment Plant Digester Capacity Upgrades	\$ 22,748	\$ 15,159	\$ 7,584	\$ 5	\$ -	\$ -
NP014800	High Priority Projects Round 2 Project 8	\$ 32,226	\$ -	\$ -	\$ -	\$ -	\$ -
NP014900	Nansemond Treatment Plant Interceptors Storage Yard	\$ 674	\$ 674	\$ -	\$ -	\$ -	\$ -
NP015000	Shell Road Interceptor Force Main (SF-144) Segmental Replacement	\$ 787	\$ -	\$ 55	\$ 183	\$ 435	\$ 114
NP015100	Nansemond Treatment Plant Administration Building Replacement	\$ 9,145	\$ -	\$ 322	\$ 1,036	\$ 7,787	\$ -
NP015400	Nansemond Treatment Plant Solids Drying Feasibility and Site Study	\$ 300	\$ 188	\$ 113	\$ -	\$ -	\$ -
NP015500	Town of Dendron Discharge Force Main Replacement	\$ 2,066	\$ 150	\$ 1,135	\$ 781	\$ -	\$ -
	Subtotal	\$ 464,751	\$ 176,643	\$ 179,151	\$ 53,331	\$ 25,606	\$ 6,780
Surry							
SU010200	Surry Hydraulic Improvements and Interceptor Force Main	\$ 655	\$ 655	\$ -	\$ -	\$ -	\$ -
SU010400	Surry Force Main and Pump Station-Dominion Power Extension	\$ 4,804	\$ 4,804	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 5,460	\$ 5,460	\$ -	\$ -	\$ -	\$ -
Virginia Initiative Plant							
VP010920	Norview Estabrook Division I 18-Inch Force Main Replacement Phase II, Section 2	\$ 4,001	\$ 1,834	\$ 2,001	\$ 167	\$ -	\$ -
VP014010	Ferebee Avenue Pump Station Replacement	\$ 10,989	\$ 4,130	\$ 5,487	\$ 1,372	\$ -	\$ -
VP014022	Sanitary Sewer Replacement 1950 – Part 2	\$ 15,674	\$ 7,837	\$ 7,837	\$ -	\$ -	\$ -
VP014700	Ingleside Road Pump Station Replacement	\$ 419	\$ 212	\$ 207	\$ -	\$ -	\$ -
VP014800	Lee Avenue-Wesley Street Horizontal Valve Replacement	\$ 3,272	\$ 439	\$ 2,833	\$ -	\$ -	\$ -
VP015320	Larchmont Area Sanitary Sewer Improvements	\$ 35,232	\$ 8,165	\$ 13,459	\$ 13,459	\$ 148	\$ -
VP015410	City Park Pump Station (PS 106) Replacement	\$ 6,511	\$ 2,374	\$ 3,545	\$ 591	\$ -	\$ -
VP015420	Luxembourg Pump Station (PS 113) Replacement and Ashland Sewer Extension	\$ 9,886	\$ 2,289	\$ 4,558	\$ 3,038	\$ -	\$ -
VP015430	Chesapeake Boulevard Pump Station (PS 105) Replacement and Norfolk Pump Station (PS 57) Rehabilitation	\$ 8,011	\$ 626	\$ 3,692	\$ 3,692	\$ -	\$ -
VP016500	Norview-Estabrook Division I 12-Inch Force Main Replacement	\$ 4,365	\$ 1,984	\$ 2,381	\$ -	\$ -	\$ -
VP016700	Norview-Estabrook Division I 18-Inch Force Main Replacement Phase III	\$ 6,219	\$ 2,830	\$ 3,389	\$ -	\$ -	\$ -
VP017120	Central Norfolk Area Gravity Sewer Improvements Phase II	\$ 3,530	\$ 2,330	\$ 1,200	\$ -	\$ -	\$ -
VP018000	Park Avenue Pump Station Replacement	\$ 6,285	\$ 3,970	\$ 2,316	\$ -	\$ -	\$ -
VP018200	Effingham Interceptor Vault Removal	\$ 1,648	\$ 1,648	\$ -	\$ -	\$ -	\$ -
VP018301	VIP Service Area I-I Reduction Phase I (PORTS)	\$ 9,050	\$ 409	\$ 3,591	\$ 4,000	\$ 1,050	\$ -
VP018302	Portsmouth Pump Station Upgrades (VIP-HPP-04B)	\$ 12,051	\$ -	\$ -	\$ 330	\$ 872	\$ 7,073
VP018303	VIP Service Area I-I Reduction Phase III (PORTS)	\$ 9,863	\$ 1,658	\$ 2,411	\$ 4,571	\$ 1,223	\$ -
VP018304	Camden Avenue Pump Station Upgrades (VIP-HPP-04D)	\$ 6,271	\$ -	\$ -	\$ 193	\$ 314	\$ 1,977
VP018305	Camden Avenue Gravity Improvements (VIP-HPP-04E)	\$ 7,263	\$ -	\$ -	\$ 144	\$ 336	\$ 3,448
VP018400	State Street Pressure Reducing Station and Offline Storage (VIP-HPP-05)	\$ 21,524	\$ 342	\$ 342	\$ 342	\$ 651	\$ 746
VP018500	Elizabeth River Crossing Reliability Improvements	\$ 1,311	\$ 1,218	\$ 93	\$ -	\$ -	\$ -
VP018800	Virginia Initiative Plant Administration Building Renovation	\$ 5,165	\$ 2,329	\$ 2,809	\$ 27	\$ -	\$ -
VP018900	Norchester Pump Station Screening Improvements	\$ 442	\$ 206	\$ 234	\$ 3	\$ -	\$ -
VP019000	Colley Ave Pump Station Pump Replacement	\$ 1,572	\$ 1,562	\$ 11	\$ -	\$ -	\$ -
VP019100	Virginia Initiative Plant Incinerator Burner Replacement	\$ 2,666	\$ 2,666	\$ -	\$ -	\$ -	\$ -
VP019200	Virginia Initiative Plant Motor Control Center Replacements	\$ 9,000	\$ 4,500	\$ 4,500	\$ -	\$ -	\$ -
VP019300	High Priority Projects Round 2 Project 4	\$ 14,173	\$ -	\$ -	\$ -	\$ -	\$ -
VP019400	High Priority Projects Round 2 Project 5	\$ 17,103	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 205,407	\$ 55,557	\$ 66,894	\$ 31,930	\$ 4,594	\$ 13,245
Williamsburg							
WB012500	Lodge Road Pump Station Upgrades	\$ 1,754	\$ 188	\$ 976	\$ 587	\$ 3	\$ -
WB013100	Williamsburg Treatment Plant Outfall Flow Control System Repairs	\$ 3,265	\$ 2,392	\$ 871	\$ 2	\$ -	\$ -
WB013200	High Priority Projects Round 2 Project 1	\$ 61,144	\$ -	\$ -	\$ -	\$ -	\$ -
WB013300	Williamsburg Treatment Plant Motor Control Center Replacements	\$ 2,791	\$ -	\$ 353	\$ 403	\$ 2,035	\$ -
WB013400	Williamsburg Treatment Plant Headworks Influent and Effluent Pipe Rehabilitation	\$ 8,400	\$ 747	\$ 4,927	\$ 2,726	\$ -	\$ -
WB013500	Williamsburg Treatment Plant Intermediate Clarifier Wet Weather and Phosphorus Removal System Improvements	\$ 9,593	\$ 513	\$ 965	\$ 5,674	\$ 2,441	\$ -
	Subtotal	\$ 86,379	\$ 3,840	\$ 8,092	\$ 9,391	\$ 4,479	\$ -

FY-2024 to FY-2033

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2029	FY-2030	FY-2031	FY-2032	FY-2033
Nansemond						
NP010620	Suffolk Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
NP012400	Western Branch Sewer System Gravity Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
NP013000	Nansemond Treatment Plant Motor Control Center Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
NP013700	Nansemond Treatment Plant Struvite Recovery Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
NP013820	Nansemond Treatment Plant Advanced Nutrient Reduction Improvements Ph II	\$ -	\$ -	\$ -	\$ -	\$ -
NP013901	Nansemond Service Area I-I Reduction Phase II (CHES)	\$ 6,454	\$ 8,983	\$ 18	\$ -	\$ -
NP013902	Nansemond Service Area I-I Reduction Phase III (CHES)	\$ 5,175	\$ 2,599	\$ 12	\$ -	\$ -
NP014000	Wilroy Pressure Reducing Station and Off-line Storage Facility	\$ -	\$ -	\$ -	\$ -	\$ -
NP014500	Nansemond Treatment Plant Regional Residuals Facility Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -
NP014600	West Road Interceptor Force Main Extension	\$ -	\$ -	\$ -	\$ -	\$ -
NP014700	Nansemond Treatment Plant Digester Capacity Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
NP014800	High Priority Projects Round 2 Project 8	\$ -	\$ -	\$ -	\$ -	\$ -
NP014900	Nansemond Treatment Plant Interceptors Storage Yard	\$ -	\$ -	\$ -	\$ -	\$ -
NP015000	Shell Road Interceptor Force Main (SF-144) Segmental Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
NP015100	Nansemond Treatment Plant Administration Building Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
NP015400	Nansemond Treatment Plant Solids Drying Feasibility and Site Study	\$ -	\$ -	\$ -	\$ -	\$ -
NP015500	Town of Dendron Discharge Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 11,629	\$ 11,582	\$ 29	\$ -	\$ -
Surry						
SU010200	Surry Hydraulic Improvements and Interceptor Force Main	\$ -	\$ -	\$ -	\$ -	\$ -
SU010400	Surry Force Main and Pump Station-Dominion Power Extension	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -
Virginia Initiative Plant						
VP010920	Norview Estabrook Division I 18-Inch Force Main Replacement Phase II, Section 2	\$ -	\$ -	\$ -	\$ -	\$ -
VP014010	Ferebee Avenue Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP014022	Sanitary Sewer Replacement 1950 – Part 2	\$ -	\$ -	\$ -	\$ -	\$ -
VP014700	Ingleside Road Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP014800	Lee Avenue-Wesley Street Horizontal Valve Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP015320	Larchmont Area Sanitary Sewer Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
VP015410	City Park Pump Station (PS 106) Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP015420	Luxembourg Pump Station (PS 113) Replacement and Ashland Sewer Extension	\$ -	\$ -	\$ -	\$ -	\$ -
VP015430	Chesapeake Boulevard Pump Station (PS 105) Replacement and Norfolk Pump Station (PS 57) Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
VP016500	Norview-Estabrook Division I 12-Inch Force Main Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP016700	Norview-Estabrook Division I 18-Inch Force Main Replacement Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
VP017120	Central Norfolk Area Gravity Sewer Improvements Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
VP018000	Park Avenue Pump Station Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP018200	Effingham Interceptor Vault Removal	\$ -	\$ -	\$ -	\$ -	\$ -
VP018301	VIP Service Area I-I Reduction Phase I (PORTS)	\$ -	\$ -	\$ -	\$ -	\$ -
VP018302	Portsmouth Pump Station Upgrades (VIP-HPP-04B)	\$ 3,775	\$ -	\$ -	\$ -	\$ -
VP018303	VIP Service Area I-I Reduction Phase III (PORTS)	\$ -	\$ -	\$ -	\$ -	\$ -
VP018304	Camden Avenue Pump Station Upgrades (VIP-HPP-04D)	\$ 3,786	\$ -	\$ -	\$ -	\$ -
VP018305	Camden Avenue Gravity Improvements (VIP-HPP-04E)	\$ 3,335	\$ -	\$ -	\$ -	\$ -
VP018400	State Street Pressure Reducing Station and Offline Storage (VIP-HPP-05)	\$ 4,750	\$ 10,742	\$ 3,600	\$ 10	\$ -
VP018500	Elizabeth River Crossing Reliability Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
VP018800	Virginia Initiative Plant Administration Building Renovation	\$ -	\$ -	\$ -	\$ -	\$ -
VP018900	Norchester Pump Station Screening Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
VP019000	Colley Ave Pump Station Pump Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP019100	Virginia Initiative Plant Incinerator Burner Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
VP019200	Virginia Initiative Plant Motor Control Center Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
VP019300	High Priority Projects Round 2 Project 4	\$ -	\$ -	\$ -	\$ 1,559	\$ 1,630
VP019400	High Priority Projects Round 2 Project 5	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 15,647	\$ 10,742	\$ 3,600	\$ 1,569	\$ 1,630
Williamsburg						
WB012500	Lodge Road Pump Station Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
WB013100	Williamsburg Treatment Plant Outfall Flow Control System Repairs	\$ -	\$ -	\$ -	\$ -	\$ -
WB013200	High Priority Projects Round 2 Project 1	\$ -	\$ -	\$ 6,726	\$ 7,990	\$ 45,860
WB013300	Williamsburg Treatment Plant Motor Control Center Replacements	\$ -	\$ -	\$ -	\$ -	\$ -
WB013400	Williamsburg Treatment Plant Headworks Influent and Effluent Pipe Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
WB013500	Williamsburg Treatment Plant Intermediate Clarifier Wet Weather and Phosphorus Removal System Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ -	\$ -	\$ 6,726	\$ 7,990	\$ 45,860

FY-2024 to FY-2033

Cash Flow Projections (in thousands)

CIP No	Project Name	Total FY-2024 to FY-2033	FY-2024	FY-2025	FY-2026	FY-2027	FY-2028
York River							
YR010300	Foxridge, Woodland Road and Fox Hill Road Gravity Sewer Rehabilitation	\$ 2,969	\$ 1,610	\$ 1,356	\$ 3	\$ -	\$ -
YR010520	Magruder Mercury Interceptor Force Main Replacement - Section B	\$ 7,697	\$ 3,357	\$ 4,338	\$ 3	\$ -	\$ -
YR010530	Magruder Mercury Interceptor Force Main Replacement - Section C	\$ 5,935	\$ -	\$ -	\$ -	\$ 5,935	\$ -
YR010900	Tabb Pressure Reducing Station and Offline Storage Facility	\$ 31,244	\$ 10,826	\$ 14,405	\$ 6,008	\$ 4	\$ -
YR011900	Bethel-Poquoson Force Main Part III Replacement	\$ 405	\$ 118	\$ 202	\$ 84	\$ -	\$ -
YR013900	York River System Isolation Valve Installation and Replacement	\$ 1,204	\$ 1,204	\$ -	\$ -	\$ -	\$ -
YR014000	York River Treatment Plant Administration Building Renovation	\$ 3,784	\$ 3,780	\$ 5	\$ -	\$ -	\$ -
YR014200	LaSalle Avenue Boat Harbor to York River Interconnect Force Main	\$ 16,816	\$ -	\$ 595	\$ 1,020	\$ 7,618	\$ 7,580
YR014300	Bethel-Poquoson Force Main Phase II (Wythe Creek Road) Replacement	\$ 316	\$ 316	\$ -	\$ -	\$ -	\$ -
YR014600	Bethel-Poquoson Force Main Part IV Replacement-Wythe Creek Exposed Crossing	\$ 3,059	\$ 3,059	\$ -	\$ -	\$ -	\$ -
YR014800	York River Treatment Plant Primary Clarifier Influent and Effluent Pipe Rehabilitation	\$ 9,235	\$ 6,150	\$ 3,080	\$ 5	\$ -	\$ -
YR014900	York River DEMON Upgrades	\$ 442	\$ 265	\$ 177	\$ -	\$ -	\$ -
	Subtotal	\$ 83,106	\$ 30,685	\$ 24,157	\$ 7,123	\$ 13,557	\$ 7,580
General							
GN013300	Treatment Plant Grease Handling Facilities	\$ 118	\$ 118	\$ -	\$ -	\$ -	\$ -
GN014900	North Shore Gravity Sewer Improvements Phase I	\$ 7,115	\$ 7,109	\$ 7	\$ -	\$ -	\$ -
GN015000	South Shore Gravity Sewer Improvements Phase I	\$ 815	\$ 258	\$ 557	\$ -	\$ -	\$ -
GN015300	Interceptor System Valve Improvements Phase I	\$ 2,871	\$ 1,195	\$ 1,672	\$ 4	\$ -	\$ -
GN015400	South Shore Aerial Crossing Improvements	\$ 155	\$ 155	\$ -	\$ -	\$ -	\$ -
GN015800	North Shore Automated Diversion Facilities	\$ 1,687	\$ 1,682	\$ 5	\$ -	\$ -	\$ -
GN016311	Outfall Dispersion Modeling for Full Scale SWIFT	\$ 1,125	\$ 100	\$ 100	\$ -	\$ -	\$ -
GN016320	Program Management of SWIFT Full Scale Implementation	\$ 45,474	\$ 5,057	\$ 5,057	\$ 5,057	\$ 5,057	\$ 4,459
GN016344	James River Land Improvements - Phase I	\$ 5,981	\$ 5,981	\$ -	\$ -	\$ -	\$ -
GN016346	Boat Harbor Transmission Force Main Land Acquisition	\$ 5,482	\$ 5,482	\$ -	\$ -	\$ -	\$ -
GN016347	James River Land Improvements - Phase II	\$ 2,046	\$ -	\$ 905	\$ 1,115	\$ 26	\$ -
GN016350	Williamsburg SWIFT Facility	\$ 130,566	\$ -	\$ -	\$ -	\$ -	\$ -
GN016351	Williamsburg Recharge Wells	\$ 40,704	\$ -	\$ -	\$ -	\$ -	\$ -
GN016360	James River SWIFT Facility	\$ 194,948	\$ 36,405	\$ 62,366	\$ 63,942	\$ 32,234	\$ -
GN016361	James River Recharge Wells (On Site)	\$ 2,849	\$ 2,849	\$ -	\$ -	\$ -	\$ -
GN016362	James River Recharge Wells (Off Site)	\$ 39,759	\$ 17,881	\$ 16,990	\$ 4,889	\$ -	\$ -
GN016363	James River Recharge Well Enhancements	\$ 305	\$ -	\$ 102	\$ 198	\$ 5	\$ -
GN016370	York River SWIFT Facility	\$ 211,365	\$ -	\$ -	\$ -	\$ -	\$ -
GN016371	York River Recharge Wells	\$ 70,918	\$ -	\$ -	\$ -	\$ -	\$ -
GN016380	Nansemond SWIFT Facility	\$ 545,472	\$ 307	\$ 33,382	\$ 74,675	\$ 149,648	\$ 144,478
GN016381	Nansemond Recharge Wells	\$ 122,457	\$ 197	\$ 1,463	\$ 13,327	\$ 59,808	\$ 45,322
GN016390	VIP SWIFT Tertiary Preliminary Engineering	\$ 5,377	\$ 4,103	\$ 1,274	\$ -	\$ -	\$ -
GN016391	VIP SWIFT Tertiary Site Work	\$ 32,581	\$ 310	\$ 385	\$ 718	\$ 2,829	\$ 24,494
GN016392	VIP SWIFT Tertiary Facility	\$ 323,886	\$ -	\$ -	\$ 2,946	\$ 6,429	\$ 458
GN016393	VIP SWIFT Advanced Water Treatment Facility	\$ 349,627	\$ -	\$ -	\$ -	\$ -	\$ -
GN016394	VIP Recharge Wells Land Acquisition	\$ 10,300	\$ -	\$ -	\$ -	\$ 1,650	\$ 4,846
GN016395	VIP Recharge Wells	\$ 152,489	\$ -	\$ -	\$ -	\$ -	\$ -
GN016396	VIP Recharge Wells Integration	\$ 84,318	\$ -	\$ -	\$ -	\$ -	\$ -
GN016700	Treatment Plant Solids Handling Replacement Phase II	\$ 4,900	\$ 1,400	\$ 2,800	\$ 700	\$ -	\$ -
GN017200	Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements Phase II	\$ 2,443	\$ 2,443	\$ -	\$ -	\$ -	\$ -
GN017300	Treatment Plant Dewatering Improvement Program	\$ 17,879	\$ -	\$ -	\$ -	\$ -	\$ -
GN017400	Treatment Plant Dewatering Replacement Phase III	\$ 3,255	\$ 3,255	\$ -	\$ -	\$ -	\$ -
GN017500	Fleet Management Program	\$ 10,696	\$ -	\$ 2,698	\$ 2,469	\$ 1,833	\$ 1,843
GN017900	Solids System Improvements for Army Base MHI Offline	\$ 2,762	\$ 2,762	\$ -	\$ -	\$ -	\$ -
GN018500	Fleet Management (FY23)	\$ 150	\$ 150	\$ -	\$ -	\$ -	\$ -
GN018600	North Shore Galvanic Cathodic Protection Rehabilitation	\$ 1,371	\$ 449	\$ 922	\$ -	\$ -	\$ -
GN018700	South Shore Galvanic Cathodic Protection Rehabilitation Phase I	\$ 1,548	\$ -	\$ 153	\$ 1,396	\$ -	\$ -
GN018800	South Shore Galvanic Cathodic Protection Rehabilitation Phase II	\$ 1,548	\$ 99	\$ 1,276	\$ 174	\$ -	\$ -
GN018900	Pump Station Motor Control Center Replacements - Phase I	\$ 2,864	\$ 1,575	\$ 1,289	\$ -	\$ -	\$ -
GN019100	Regional Granular Activated Carbon Reactivation Facility Study Phase I	\$ 65	\$ 65	\$ -	\$ -	\$ -	\$ -
GN019200	Atlantic Treatment Plant Digester and Nansemond Treatment Plant Clarifier Coating Improvements	\$ 533	\$ 533	\$ -	\$ -	\$ -	\$ -
GN019300	Fleet Management (FY24)	\$ 2,428	\$ 2,428	\$ -	\$ -	\$ -	\$ -
GN019400	Water Quality Department Instrumentation Equipment Program	\$ 6,301	\$ 707	\$ 707	\$ 707	\$ 707	\$ 707
GN019500	Water Quality Department Instrumentation Equipment (FY24)	\$ 515	\$ 515	\$ -	\$ -	\$ -	\$ -
GN019600	Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements Phase III	\$ 9,900	\$ -	\$ 3,588	\$ 6,312	\$ -	\$ -
GN019700	Treatment Plant Dewatering Improvement Phase IV	\$ 3,344	\$ 316	\$ 1,062	\$ 1,966	\$ -	\$ -
GN019800	Treatment Plant Dewatering Improvement Phase V	\$ 3,492	\$ -	\$ -	\$ 330	\$ 1,109	\$ 2,053
GN019900	Treatment Plant Dewatering Improvement Phase VI	\$ 3,492	\$ -	\$ -	\$ -	\$ 330	\$ 1,109
GN020000	Solar Panel Installation Phase I	\$ 1,046	\$ -	\$ -	\$ -	\$ -	\$ -
GN020100	VIP and Army Base Treatment Plant Secondary Clarifier Weir Cover Installation	\$ 1,300	\$ 650	\$ 650	\$ -	\$ -	\$ -
	Subtotal	\$ 1,431,898	\$ 106,537	\$ 139,409	\$ 180,922	\$ 261,665	\$ 229,769
Future Improvements							
IP010400	Interceptor System Rehabilitation and Replacement	\$ 338,934	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 338,934	\$ -	\$ -	\$ -	\$ -	\$ -
	CIP TOTALS	\$ 3,863,947	\$ 725,000	\$ 784,211	\$ 510,526	\$ 454,737	\$ 349,474

FY-2024 to FY-2033

Cash Flow Projections (in thousands)

CIP No	Project Name	FY-2029	FY-2030	FY-2031	FY-2032	FY-2033
York River						
YR010300	Foxridge, Woodland Road and Fox Hill Road Gravity Sewer Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
YR010520	Magruder Mercury Interceptor Force Main Replacement - Section B	\$ -	\$ -	\$ -	\$ -	\$ -
YR010530	Magruder Mercury Interceptor Force Main Replacement - Section C	\$ -	\$ -	\$ -	\$ -	\$ -
YR010900	Tabb Pressure Reducing Station and Offline Storage Facility	\$ -	\$ -	\$ -	\$ -	\$ -
YR011900	Bethel-Poquoson Force Main Part III Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
YR013900	York River System Isolation Valve Installation and Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
YR014000	York River Treatment Plant Administration Building Renovation	\$ -	\$ -	\$ -	\$ -	\$ -
YR014200	LaSalle Avenue Boat Harbor to York River Interconnect Force Main	\$ 3	\$ -	\$ -	\$ -	\$ -
YR014300	Bethel-Poquoson Force Main Phase II (Wythe Creek Road) Replacement	\$ -	\$ -	\$ -	\$ -	\$ -
YR014600	Bethel-Poquoson Force Main Part IV Replacement-Wythe Creek Exposed Crossing	\$ -	\$ -	\$ -	\$ -	\$ -
YR014800	York River Treatment Plant Primary Clarifier Influent and Effluent Pipe Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
YR014900	York River DEMON Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 3	\$ -	\$ -	\$ -	\$ -
General						
GN013300	Treatment Plant Grease Handling Facilities	\$ -	\$ -	\$ -	\$ -	\$ -
GN014900	North Shore Gravity Sewer Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN015000	South Shore Gravity Sewer Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN015300	Interceptor System Valve Improvements Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN015400	South Shore Aerial Crossing Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
GN015800	North Shore Automated Diversion Facilities	\$ -	\$ -	\$ -	\$ -	\$ -
GN016311	Outfall Dispersion Modeling for Full Scale SWIFT	\$ -	\$ -	\$ -	\$ 92	\$ 93
GN016320	Program Management of SWIFT Full Scale Implementation	\$ 4,416	\$ 4,416	\$ 4,434	\$ 4,451	\$ 3,070
GN016344	James River Land Improvements - Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN016346	Boat Harbor Transmission Force Main Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -
GN016347	James River Land Improvements - Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
GN016350	Williamsburg SWIFT Facility	\$ -	\$ -	\$ -	\$ -	\$ -
GN016351	Williamsburg Recharge Wells	\$ -	\$ -	\$ -	\$ -	\$ -
GN016360	James River SWIFT Facility	\$ -	\$ -	\$ -	\$ -	\$ -
GN016361	James River Recharge Wells (On Site)	\$ -	\$ -	\$ -	\$ -	\$ -
GN016362	James River Recharge Wells (Off Site)	\$ -	\$ -	\$ -	\$ -	\$ -
GN016363	James River Recharge Well Enhancements	\$ -	\$ -	\$ -	\$ -	\$ -
GN016370	York River SWIFT Facility	\$ -	\$ -	\$ -	\$ -	\$ -
GN016371	York River Recharge Wells	\$ -	\$ -	\$ -	\$ -	\$ -
GN016380	Nansemond SWIFT Facility	\$ 142,982	\$ -	\$ -	\$ -	\$ -
GN016381	Nansemond Recharge Wells	\$ 2,341	\$ -	\$ -	\$ -	\$ -
GN016390	VIP SWIFT Tertiary Preliminary Engineering	\$ -	\$ -	\$ -	\$ -	\$ -
GN016391	VIP SWIFT Tertiary Site Work	\$ 3,845	\$ -	\$ -	\$ -	\$ -
GN016392	VIP SWIFT Tertiary Facility	\$ 13,938	\$ 110,904	\$ 136,137	\$ 53,074	\$ -
GN016393	VIP SWIFT Advanced Water Treatment Facility	\$ -	\$ -	\$ -	\$ -	\$ -
GN016394	VIP Recharge Wells Land Acquisition	\$ 3,803	\$ -	\$ -	\$ -	\$ -
GN016395	VIP Recharge Wells	\$ -	\$ -	\$ -	\$ -	\$ -
GN016396	VIP Recharge Wells Integration	\$ -	\$ -	\$ -	\$ -	\$ -
GN016700	Treatment Plant Solids Handling Replacement Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
GN017200	Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
GN017300	Treatment Plant Dewatering Improvement Program	\$ 9,080	\$ 4,540	\$ 4,259	\$ -	\$ -
GN017400	Treatment Plant Dewatering Replacement Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
GN017500	Fleet Management Program	\$ 1,853	\$ -	\$ -	\$ -	\$ -
GN017900	Solids System Improvements for Army Base MHI Offline	\$ -	\$ -	\$ -	\$ -	\$ -
GN018500	Fleet Management (FY23)	\$ -	\$ -	\$ -	\$ -	\$ -
GN018600	North Shore Galvanic Cathodic Protection Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -
GN018700	South Shore Galvanic Cathodic Protection Rehabilitation Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN018800	South Shore Galvanic Cathodic Protection Rehabilitation Phase II	\$ -	\$ -	\$ -	\$ -	\$ -
GN018900	Pump Station Motor Control Center Replacements - Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN019100	Regional Granular Activated Carbon Reactivation Facility Study Phase I	\$ -	\$ -	\$ -	\$ -	\$ -
GN019200	Atlantic Treatment Plant Digester and Nansemond Treatment Plant Clarifier Coating Improvements	\$ -	\$ -	\$ -	\$ -	\$ -
GN019300	Fleet Management (FY24)	\$ -	\$ -	\$ -	\$ -	\$ -
GN019400	Water Quality Department Instrumentation Equipment Program	\$ 707	\$ 707	\$ 707	\$ 648	\$ -
GN019500	Water Quality Department Instrumentation Equipment (FY24)	\$ -	\$ -	\$ -	\$ -	\$ -
GN019600	Interceptor Systems Pump Station Control and SCADA Upgrades and Enhancements Phase III	\$ -	\$ -	\$ -	\$ -	\$ -
GN019700	Treatment Plant Dewatering Improvement Phase IV	\$ -	\$ -	\$ -	\$ -	\$ -
GN019800	Treatment Plant Dewatering Improvement Phase V	\$ -	\$ -	\$ -	\$ -	\$ -
GN019900	Treatment Plant Dewatering Improvement Phase VI	\$ 2,053	\$ -	\$ -	\$ -	\$ -
GN020000	Solar Panel Installation Phase I	\$ 697	\$ 349	\$ -	\$ -	\$ -
GN020100	VIP and Army Base Treatment Plant Secondary Clarifier Weir Cover Installation	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal	\$ 185,715	\$ 120,916	\$ 145,536	\$ 58,265	\$ 3,163
Future Improvements						
IP010400	Interceptor System Rehabilitation and Replacement	\$ 30	\$ 52,868	\$ 36,876	\$ 125,110	\$ 124,050
	Subtotal	\$ 30	\$ 52,868	\$ 36,876	\$ 125,110	\$ 124,050
	CIP TOTALS	\$ 240,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000

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