

**Water & Sewer
5-YEAR PLAN**

FY 2024 FY 2025 FY 2026 FY 2027 FY 2028

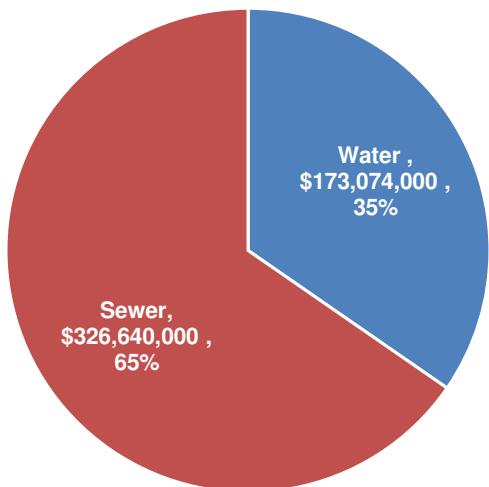
**Total
'24-'28**

FY2024-FY2028 CAPITAL IMPROVEMENT PLAN

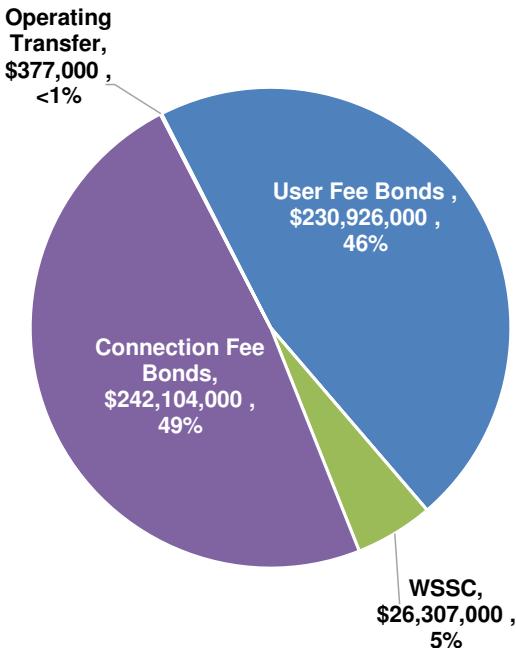
(\$ in thousands)

| CAPITAL COSTS | | | | | | Total '24-'28 |
|------------------------|----------|-----------|-----------|----------|----------|--------------------------|
| Water | \$14,387 | \$44,941 | \$74,302 | \$22,873 | \$16,571 | |
| Sewer | 64,452 | 80,363 | 66,535 | 65,571 | 49,719 | |
| Total | \$78,839 | \$125,304 | \$140,837 | \$88,444 | \$66,290 | |
| | | | | | | |
| FINANCE SOURCES | | | | | | |
| User Fee Bonds | \$41,869 | \$62,324 | \$67,374 | \$34,354 | \$25,005 | \$230,926 |
| Connection Fee Bonds | 30,840 | 55,626 | 68,056 | 49,626 | 37,956 | 242,104 |
| Operating Transfer | 125 | 126 | 126 | 0 | 0 | 377 |
| Total County Funding | \$72,834 | \$118,076 | \$135,556 | \$83,980 | \$62,961 | \$473,407 |
| Other: WSSC | 6,005 | 7,228 | 5,281 | 4,464 | 3,329 | 26,307 |
| Total | \$78,839 | \$125,304 | \$140,837 | \$88,444 | \$66,290 | \$499,714 |

Capital Costs



Finance Sources



Highlights:

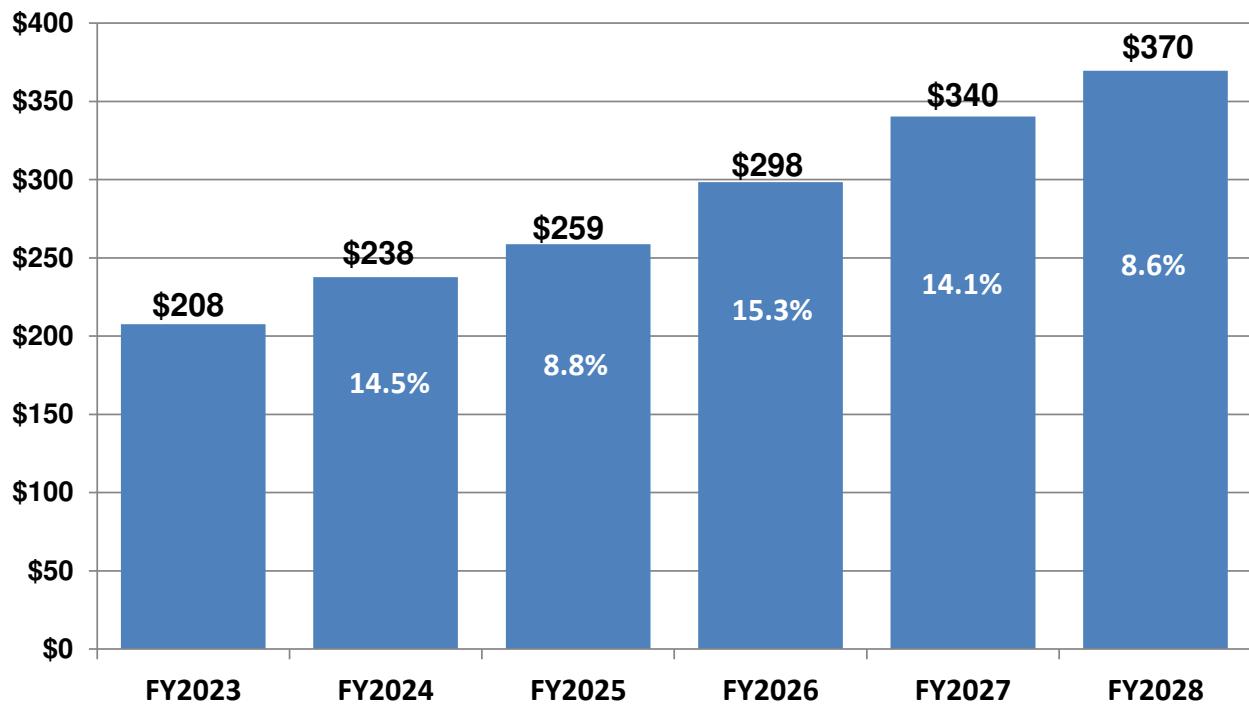
New projects added to the FY2024-FY2028 CIP (\$ in thousands):

| Project Title | FY2024 | FY2025 | FY2026 | FY2027 | FY2028 | FY24-28 |
|--|----------------|----------------|----------------|----------------|----------------|-----------------|
| Acton Lane Water Main Extension | \$210 | \$1,351 | \$0 | \$0 | \$0 | \$1,561 |
| <i>Design and construct approximately 540 l.f. of 12" water main on Acton Lane to complete the connection to Hamilton Rd and approximately 1000 l.f. of 8" water main to loop the Wexford Village Subdivision. This connection will improve redundancy and add looping. Total Project Cost: \$1,561,000 (page 19).</i> | | | | | | |
| Waldorf Well #18 | 465 | 216 | 1,716 | 1,656 | 0 | 4,053 |
| <i>Design and construction of a new 500 gpm production well in the Patuxent aquifer to serve the Waldorf Water System. Total Project Cost: \$4,053,000 (page 20).</i> | | | | | | |
| Billingsley Road Water Main Extension | 330 | 1,756 | 1,756 | 0 | 0 | 3,842 |
| <i>Design and construct approximately 4,000 l.f. of 12-in water main along Billingsley Rd from Old Washington Road to St. Charles Parkway. This extension will provide looping, reduce head, and help to increase the pressure in the Waldorf water system. Total Project Cost: \$3,842,000 (page 21).</i> | | | | | | |
| Leonardtown Road Water Main Replacement | 0 | 0 | 406 | 1,566 | 2,351 | 4,323 |
| <i>Study, design and construct approximately 3,200 l.f. of 10" water main and 5,300 l.f. of 12" water main to replace the existing main along Leonardtown Rd from Old Washington Rd to Mattawoman Beantown Rd. The main replacement will upsize the existing main to increase fire flow and pressure. Total Project Cost: \$9,025,000 (page 22).</i> | | | | | | |
| Westlake Water Tower Rehabilitation | 1,815 | 0 | 0 | 0 | 0 | 1,815 |
| <i>The water storage tower known as the Westlake Tower adjacent to Wade Elementary School is in need of rehabilitation. This project will include a preliminary assessment inspection and report, interior and exterior recoating, and miscellaneous repairs. Total Project Cost: \$1,815,000 (page 24).</i> | | | | | | |
| Total | \$2,820 | \$3,323 | \$3,878 | \$3,222 | \$2,351 | \$15,594 |

**Projects that were previously fully funded and now require increases:
(\$ in thousands)**

| Project Title | FY2024 | FY2025 | FY2026 | FY2027 | FY2028 | FY24-28 |
|--|--|----------------|--------------|----------------|----------------|-----------------|
| Waldorf Well #17 | \$3,669 | \$0 | \$0 | \$0 | \$0 | \$3,669 |
| | <i>Provide a new production well to the Waldorf Water System to improve the quality and quantity of the existing supply. The well production is estimated to be 500,000 gallons per day (350 gpm) and will be drilled into and withdraw from the Patuxent Aquifer. Total Project Cost: \$8,052,000 (page 23).</i> | | | | | |
| Post Office Road Sewer Capacity Improvements | 992 | 993 | 0 | 0 | 0 | 1,985 |
| | <i>This project includes evaluation and implementation of recommended improvements to approximately 3,500 LF of sewer in the area of Post Office Road and St. Charles Parkway to address capacity and maintenance concerns. Total Project Cost: \$8,442,000 (page 45).</i> | | | | | |
| Hughesville Package Treatment Plant | 575 | 176 | 176 | 5,426 | 5,426 | 11,779 |
| | <i>Design, construction and land acquisition for a central sewer treatment system and land application to serve the village of Hughesville consistent with the Hughesville Village Revitalization Plan completed in 2008. The Hughesville Water and Sewer Feasibility Study was completed in December 2010. Total Project Cost: \$21,244,000 (page 46).</i> | | | | | |
| Zekiah Interceptor Sewer Upgrades | 305 | 2,496 | 0 | 0 | 0 | 2,801 |
| | <i>Design and construct approximately 6,500 l.f. of 36" gravity sewer to provide additional capacity in the sewer system to serve the future development of the Zekiah service area. Total Project Cost: \$6,414,000 (page 47).</i> | | | | | |
| Sewer Pump Station Capacity Study | 125 | 0 | 0 | 0 | 0 | 125 |
| | <i>A comprehensive update and analysis of existing County sewer pump stations is needed to accurately represent the true capacity and limitations of our sewer infrastructure for maintenance planning as well as analyzing the impact of currently proposed development on the sewer systems, as well as an impact analysis of future build-out. Total Project Cost: \$454,000 (page 48).</i> | | | | | |
| Total: | \$5,666 | \$3,665 | \$176 | \$5,426 | \$5,426 | \$20,359 |

Estimated Quarterly Water & Sewer Bill

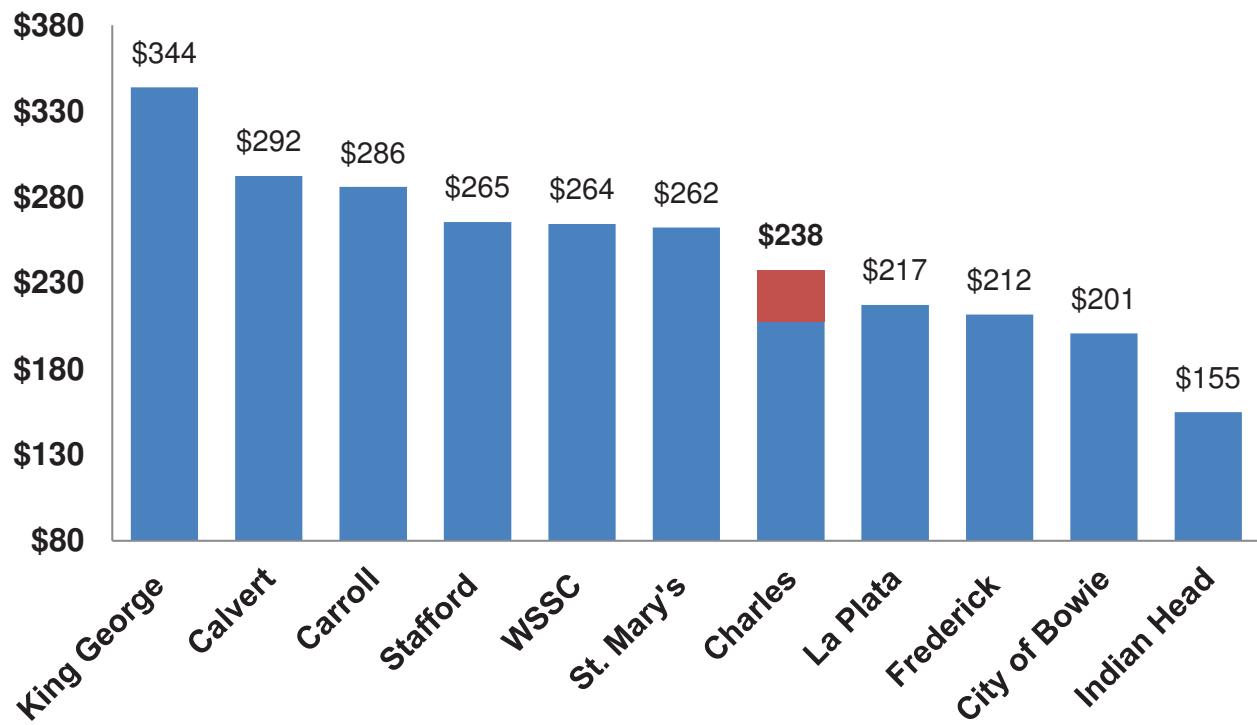


NOTE: % change reflected in graph above represents % increase in the estimated quarterly bill in comparison to the prior year.

| | FY2023 | FY2024 | FY2025 | FY2026 | FY2027 | FY2028 | 5 Year Impact |
|---|----------|----------|------------|------------|------------|------------|---------------|
| IMPACT ON QUARTERLY BILL | | | | | | | |
| Estimated Water & Sewer Bill (based on 12,330 gallons) | \$207.65 | \$237.73 | \$258.74 | \$298.38 | \$340.35 | \$369.53 | |
| Increase in the estimated quarterly bill: | | | | | | | |
| Additional amount per quarter | | \$30.08 | \$21.01 | \$39.64 | \$41.97 | \$29.17 | \$161.87 |
| ESTIMATED ANNUAL BILLS: | | | | | | | |
| Estimated additional annual cost | \$830.59 | \$950.93 | \$1,034.98 | \$1,193.52 | \$1,361.41 | \$1,478.10 | \$647.52 |

WATER AND SEWER USER CHARGES

Average Residential Quarterly Bill
(based on 12,330 gallons)



NOTES:

The Average Residential User bill is currently \$208 a quarter.

Current rates as of February 2023.

Excludes Bay Restoration fees.

CONNECTION FEE

The connection fee rate will be adjusted in addition to the time value of money if a project or projects impact the rate over and above the normal fee. This year based on the requested CIP we are requesting that the water and sewer rate will need to increase by approximately 4.75% annually to fund the requested CIP. In addition to the connection fee, the technology fee surcharge to support the County's new Energov software system will increase by approximately 4.74%.

| Fiscal Year | Sewer Connection Fee | Water Connection Fee | Combined Fee | % Change |
|-------------|----------------------|----------------------|--------------|----------|
| 2023 Actual | \$11,452 | \$6,121 | \$17,573 | 4.77% |
| 2024 | \$11,996 | \$6,412 | \$18,408 | 4.75% |
| 2025 | \$12,566 | \$6,716 | \$19,282 | 4.75% |
| 2026 | \$13,163 | \$7,035 | \$20,198 | 4.75% |
| 2027 | \$13,788 | \$7,370 | \$21,158 | 4.75% |
| 2028 | \$14,443 | \$7,720 | \$22,163 | 4.75% |

| | | | | |
|---------------------|-----------------|----------------|-----------------|--------------|
| FY24 5/8" Meter Fee | \$11,996 | \$6,412 | \$18,408 | 4.75% |
| FY24 Technology Fee | 480 | 256 | 736 | 4.74% |
| TOTAL FEE | \$12,476 | \$6,668 | \$19,144 | 4.75% |

- Connection Fees revenues supports meter purchases, staff time and credit card fees associated with online payments of credit transactions.

CHARLES COUNTY COMMISSIONERS OF CHARLES COUNTY, MD
FISCAL YEAR 2024 PROPOSED CAPITAL PROJECT BUDGET
FY2024-FY2028 CAPITAL IMPROVEMENT PROGRAM

| Department | Page Ref. # | (\$ in thousands) | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | 5-Year Total '24-'28 | Prior Approp. thru FY23 | | Project Total | | | | | | | | | |
|-----------------------------------|-------------|--|---------|---------|---------|---------|---------|----------------------|-------------------------|----------------|---------------|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | Approp. | Beyond FY 2028 | | | | | | | | | | |
| ENTERPRISE FUND OPERATIONS | | | | | | | | | | | | | | | | | | | | |
| WATER & SEWER | | | | | | | | | | | | | | | | | | | | |
| DPW | 1 | Automation & Technology Master Plan | 232 | 834 | 1,274 | 0 | 0 | 2,340 | 5,084 | 0 | 7,424 | | | | | | | | | |
| DPW | 2 | Utilities Professional Development & Training Center | 0 | 0 | 206 | 1,404 | 0 | 1,610 | 0 | 0 | 1,610 | | | | | | | | | |
| DPW | 3 | Utilities Waldorf Regional Facility | 0 | 731 | 3,180 | 3,255 | 3,205 | 10,371 | 0 | 0 | 10,371 | | | | | | | | | |
| DPW | 4 | Bel Alton and Chapel Point Connection | 0 | 0 | 6,966 | 0 | 0 | 6,966 | 1,351 | 0 | 8,317 | | | | | | | | | |
| DPW | 5 | Ellenwood, Mariellen and Newtown Connection | 0 | 0 | 6,966 | 0 | 0 | 6,966 | 550 | 0 | 7,516 | | | | | | | | | |
| DPW | 6 | Satellite Water Facility Upgrades | 655 | 831 | 936 | 1,319 | 1,249 | 4,990 | 8,303 | 1,249 | 14,542 | | | | | | | | | |
| PGM | 7 | Gleneagles 2MG Water Tower | 325 | 4,372 | 0 | 0 | 0 | 4,697 | 4,428 | 0 | 9,125 | | | | | | | | | |
| PGM | 8 | Bryans Road 2MG Water Tower | 321 | 3,543 | 2,806 | 0 | 0 | 6,670 | 2,350 | 0 | 9,020 | | | | | | | | | |
| PGM | 9 | Hughesville Water Line | 1,065 | 66 | 3,866 | 5,766 | 5,766 | 16,529 | 4,186 | 2,347 | 23,062 | | | | | | | | | |
| PGM | 10 | Bryans Village Waterline Interconnection | 55 | 1,152 | 1,152 | 0 | 0 | 2,359 | 361 | 0 | 2,720 | | | | | | | | | |
| PGM | 11 | Strawberry Hills Waterline | 771 | 0 | 0 | 0 | 0 | 771 | 828 | 0 | 1,599 | | | | | | | | | |
| PGM | 12 | Middletown Rd-Bensville Rd Waterline Interconnection | 55 | 1,222 | 2,216 | 0 | 0 | 3,493 | 4,452 | 0 | 7,945 | | | | | | | | | |
| PGM | 13 | Waldorf Water Tower #8 | 205 | 4,246 | 4,086 | 0 | 0 | 8,537 | 669 | 0 | 9,206 | | | | | | | | | |
| PGM | 14 | Waldorf Water Tower #8 Water Distribution | 215 | 1,236 | 0 | 0 | 0 | 1,451 | 633 | 0 | 2,084 | | | | | | | | | |
| DPW | 15 | Old Washington Road Waterline | 0 | 0 | 0 | 1,302 | 0 | 1,302 | 1,278 | 0 | 2,580 | | | | | | | | | |
| PGM | 16 | Potomac River Water Supply Treatment Plant | 803 | 1,004 | 1,504 | 704 | 2,634 | 6,649 | 1,551 | 171,743 | 179,943 | | | | | | | | | |
| PGM | 17 | WSSC Waldorf Interconnection | 1,955 | 16,366 | 25,556 | 4,606 | 0 | 48,483 | 6,735 | 0 | 55,218 | | | | | | | | | |
| PGM | 18 | White Plains Water Enhancements | 180 | 1,691 | 1,641 | 0 | 0 | 3,512 | 421 | 0 | 3,933 | | | | | | | | | |
| PGM | 19 | Acton Lane Water Main Extension | * | 210 | 1,351 | 0 | 0 | 1,561 | 0 | 0 | 1,561 | | | | | | | | | |
| PGM | 20 | Waldorf Well #18 | * | 465 | 216 | 1,716 | 1,656 | 0 | 4,053 | 0 | 0 | | | | | | | | | |
| PGM | 21 | Billingsley Road Water Main Extension | * | 330 | 1,756 | 1,756 | 0 | 0 | 3,842 | 0 | 0 | | | | | | | | | |
| PGM | 22 | Leonardtown Road Water Main Replacement | * | 0 | 0 | 406 | 1,566 | 2,351 | 4,323 | 0 | 4,702 | | | | | | | | | |
| DPW | 23 | Waldorf Well #17 | * | 3,669 | 0 | 0 | 0 | 0 | 3,669 | 4,383 | 0 | | | | | | | | | |
| DPW | 24 | Westlake Water Tower Rehabilitation | * | 1,815 | 0 | 0 | 0 | 0 | 1,815 | 0 | 0 | | | | | | | | | |
| DPW | 25 | MWWTP Electrical System Replacement | 7,735 | 7,709 | 5,206 | 2,856 | 0 | 23,506 | 9,797 | 0 | 33,303 | | | | | | | | | |
| DPW | 26 | Mattawoman Infiltration and Inflow PH II | 1,609 | 1,110 | 3,510 | 3,510 | 3,510 | 13,249 | 16,324 | 3,510 | 33,083 | | | | | | | | | |
| DPW | 27 | Mattawoman WWTP Automation | 1,498 | 1,499 | 1,499 | 231 | 0 | 4,727 | 10,344 | 0 | 15,071 | | | | | | | | | |
| DPW | 28 | Pump Station Rehabs and Replacements | 5,104 | 11,631 | 7,734 | 4,394 | 2,714 | 31,577 | 7,188 | 5,756 | 44,521 | | | | | | | | | |
| DPW | 29 | Satellite Wastewater Facility Upgrades | 3,228 | 6,929 | 1,653 | 894 | 894 | 13,598 | 4,491 | 894 | 18,983 | | | | | | | | | |
| DPW | 30 | MWWTP Clarifier and Thickener Improvements | 2,794 | 4,548 | 2,446 | 756 | 0 | 10,544 | 20,798 | 0 | 31,342 | | | | | | | | | |
| DPW | 31 | MWWTP Utility Water System Evaluation & Improvement | 598 | 829 | 820 | 1,729 | 876 | 4,852 | 2,928 | 0 | 7,780 | | | | | | | | | |
| PGM | 32 | Zekiah Pump Station Upgrade | 1,635 | 1,236 | 5,586 | 5,586 | 2,506 | 16,549 | 1,432 | 0 | 17,981 | | | | | | | | | |
| PGM | 33 | Zekiah Pump Station Force main | 340 | 286 | 1,135 | 1,006 | 0 | 2,767 | 1,879 | 0 | 4,646 | | | | | | | | | |
| DPW | 34 | Clifton WWTP Improvements | 3,105 | 0 | 0 | 0 | 0 | 3,105 | 11,247 | 0 | 14,352 | | | | | | | | | |

CHARLES COUNTY COMMISSIONERS OF CHARLES COUNTY, MD
FISCAL YEAR 2024 PROPOSED CAPITAL PROJECT BUDGET
FY2024-FY2028 CAPITAL IMPROVEMENT PROGRAM

| Department | Page Ref. # | (\$ in thousands) | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | 5-Year Total '24-'28 | Prior Approp. thru FY23 | | Project Total |
|--------------------------------|-------------|--|-----------------|------------------|------------------|-----------------|-----------------|----------------------|-------------------------|------------------|--------------------|
| | | | | | | | | | Beyond FY 2028 | | |
| PGM | 35 | Hughesville Collection Sewer System | 1,985 | 986 | 2,586 | 5,586 | 5,586 | 16,729 | 1,057 | 9,086 | 26,872 |
| DPW | 36 | MWWTP Septage/Hauled Waste Receiving Facility | 2,598 | 2,599 | 2,619 | 2,539 | 1,356 | 11,711 | 1,251 | 0 | 12,962 |
| DPW | 37 | MWWTP Effluent Filters Improvements | 5,569 | 6,115 | 4,705 | 4,705 | 1,444 | 22,538 | 3,998 | 0 | 26,536 |
| DPW | 38 | MWWTP Reclaimed Water Pump Station Improvements | 1,550 | 1,551 | 1,469 | 0 | 0 | 4,570 | 1,183 | 0 | 5,753 |
| DPW | 39 | MWWTP Effluent PS Force main Surge Management System | 2,024 | 2,105 | 1,249 | 0 | 0 | 5,378 | 1,334 | 0 | 6,712 |
| DPW | 40 | MWWTP Belt Filter Press Replacement | 3,468 | 3,419 | 1,274 | 0 | 0 | 8,161 | 7,498 | 0 | 15,659 |
| DPW | 41 | MWWTP Process Improvements - Parent | 3,526 | 5,500 | 6,010 | 8,831 | 14,071 | 37,938 | 3,051 | 139,589 | 180,578 |
| DPW | 42 | MWWTP UV Disinfection System Upgrades | 4,547 | 4,343 | 964 | 0 | 0 | 9,854 | 3,452 | 0 | 13,306 |
| DPW | 43 | MWWTP Headworks Improvements | 955 | 3,431 | 3,231 | 3,231 | 3,231 | 14,079 | 820 | 3,481 | 18,380 |
| DPW | 44 | MWWTP BNR Improvements-Parent | 6,555 | 5,321 | 5,181 | 5,181 | 1,221 | 23,459 | 1,385 | 0 | 24,844 |
| DPW | 45 | Post Office Road Sewer Capacity Improvements | 992 | 993 | 0 | 0 | 0 | 1,985 | 6,457 | 0 | 8,442 |
| PGM | 46 | Hughesville Package Treatment Plant | 575 | 176 | 176 | 5,426 | 5,426 | 11,779 | 5,915 | 3,550 | 21,244 |
| PGM | 47 | Zekiah Interceptor Sewer Upgrades | 305 | 2,496 | 0 | 0 | 0 | 2,801 | 3,613 | 0 | 6,414 |
| PGM | 48 | Sewer Pump Station Capacity Study | 125 | 0 | 0 | 0 | 0 | 125 | 329 | 0 | 454 |
| Total without inflation | | | \$75,746 | \$115,429 | \$125,286 | \$78,039 | \$58,040 | \$452,540 | \$175,334 | \$345,907 | \$973,781 |
| Contingency-inflation | | | 3,093 | 9,875 | 15,551 | 10,405 | 8,250 | 47,174 | 0 | 95,681 | 142,855 |
| Total WATER & SEWER | | | \$78,839 | \$125,304 | \$140,837 | \$88,444 | \$66,290 | \$499,714 | \$175,334 | \$441,588 | \$1,116,636 |
| Water | | | 14,387 | 44,941 | 74,302 | 22,873 | 16,571 | 173,074 | 45,021 | 229,429 | 447,523 |
| Sewer | | | 64,452 | 80,363 | 66,535 | 65,571 | 49,719 | 326,640 | 130,312 | 212,160 | 669,113 |
| Total WATER & SEWER | | | \$78,839 | \$125,304 | \$140,837 | \$88,444 | \$66,290 | \$499,714 | \$175,334 | \$441,589 | \$1,116,636 |

*New Projects to the 5 year CIP

^Additional funding for existing project

Note: Numbers may be off slightly due to rounding.

CHARLES COUNTY COMMISSIONERS OF CHARLES COUNTY, MD
FISCAL YEAR 2024 PROPOSED CAPITAL PROJECT BUDGET
FY2024-FY2028 CAPITAL IMPROVEMENT PROGRAM

Department
Page Ref. #

| | | | | | | | 5-Year Total '24-'28 | Prior Aprop. thru FY23 | Beyond FY 2028 | Project Total |
|-----------------------------------|----|--|----------------|-----------------|-----------------|----------------|----------------------------|------------------------------|-------------------|------------------|
| (\$ in thousands) | | | | | | | | | | |
| ENTERPRISE FUND OPERATIONS | | | | | | | | | | |
| WATER- User Fee | | | | | | | | | | |
| Financing Sources | | | | | | | | | | |
| | | Bonds | \$4,128 | \$11,671 | \$32,083 | \$6,710 | \$4,875 | \$59,467 | \$16,878 | \$111,021 |
| | | Operating Transfer | 0 | 63 | 63 | 0 | 0 | 126 | 0 | 0 |
| | | Total Funding | \$4,128 | \$11,734 | \$32,146 | \$6,710 | \$4,875 | \$59,593 | \$16,878 | \$111,021 |
| | | Capital Costs | | | | | | | | |
| DPW | 1 | Automation & Technology Master Plan | 116 | 417 | 637 | 0 | 0 | 1,170 | 2,542 | 0 |
| DPW | 2 | Utilities Professional Development & Training Center | 0 | 0 | 103 | 702 | 0 | 805 | 0 | 0 |
| DPW | 3 | Utilities Waldorf Regional Facility | 0 | 366 | 1,590 | 1,628 | 1,603 | 5,186 | 0 | 0 |
| DPW | 4 | Bel Alton and Chapel Point Connection | 0 | 0 | 6,966 | 0 | 0 | 6,966 | 1,351 | 0 |
| DPW | 5 | Ellenwood, Mariellen and Newtown Connection | 0 | 0 | 6,966 | 0 | 0 | 6,966 | 550 | 0 |
| DPW | 6 | Satellite Water Facility Upgrades | 655 | 831 | 936 | 1,319 | 1,249 | 4,990 | 8,303 | 1,249 |
| PGM | 13 | Waldorf Water Tower #8 | 123 | 2,548 | 2,452 | 0 | 0 | 5,122 | 401 | 0 |
| PGM | 14 | Waldorf Water Tower #8 Water Distribution | 129 | 742 | 0 | 0 | 0 | 871 | 380 | 0 |
| DPW | 15 | Old Washington Road Waterline | 0 | 0 | 0 | 651 | 0 | 651 | 639 | 0 |
| PGM | 16 | Potomac River Water Supply Treatment Plant | 402 | 502 | 752 | 352 | 1,317 | 3,325 | 776 | 85,872 |
| PGM | 17 | WSSC Waldorf Interconnection | 489 | 4,092 | 6,389 | 1,152 | 0 | 12,121 | 1,684 | 0 |
| PGM | 18 | White Plains Water Enhancements | 108 | 1,015 | 985 | 0 | 0 | 2,107 | 253 | 0 |
| DPW | 24 | Westlake Water Tower Rehabilitation | * | 1,815 | 0 | 0 | 0 | 1,815 | 0 | 0 |
| | | Total without inflation | \$3,836 | \$10,511 | \$27,775 | \$5,803 | \$4,169 | \$52,094 | \$16,878 | \$87,121 |
| | | Contingency-inflation | 292 | 1,223 | 4,371 | 907 | 707 | 7,500 | 23,900 | 31,399 |
| | | Total User Fee Projects | \$4,128 | \$11,734 | \$32,146 | \$6,710 | \$4,876 | \$59,594 | \$16,878 | \$111,021 |
| | | | | | | | | | | |

*New Projects to the 5 year CIP

^Additional funding for existing project

CHARLES COUNTY COMMISSIONERS OF CHARLES COUNTY, MD
FISCAL YEAR 2024 PROPOSED CAPITAL PROJECT BUDGET
FY2024-FY2028 CAPITAL IMPROVEMENT PROGRAM

| Department | Page Ref. # | (\$ in thousands) | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | 5-Year Total '24-'28 | Prior Approp. thru FY23 | | Project Total | | | | | | | | | |
|-------------------------------------|-------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|-------------------------|------------------|------------------|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | Approp. | Beyond FY 2028 | | | | | | | | | | |
| <u>WATER- Connection Fee</u> | | | | | | | | | | | | | | | | | | | | |
| <u>Financing Sources</u> | | | | | | | | | | | | | | | | | | | | |
| | | Bonds | \$10,259 | \$33,207 | \$42,156 | \$16,163 | \$11,695 | \$113,480 | \$28,143 | \$118,408 | \$260,031 | | | | | | | | | |
| | | Total Funding | \$10,259 | \$33,207 | \$42,156 | \$16,163 | \$11,695 | \$113,480 | \$28,143 | \$118,408 | \$260,031 | | | | | | | | | |
| <u>Capital Costs</u> | | | | | | | | | | | | | | | | | | | | |
| PGM | 7 | Gleneagles 2MG Water Tower | 325 | 4,372 | 0 | 0 | 0 | 4,697 | 4,428 | 0 | 9,125 | | | | | | | | | |
| PGM | 8 | Bryans Road 2MG Water Tower | 321 | 3,543 | 2,806 | 0 | 0 | 6,670 | 2,350 | 0 | 9,020 | | | | | | | | | |
| PGM | 9 | Hughesville Water Line | 1,065 | 66 | 3,866 | 5,766 | 5,766 | 16,529 | 4,186 | 2,347 | 23,062 | | | | | | | | | |
| PGM | 10 | Bryans Village Waterline Interconnection | 55 | 1,152 | 1,152 | 0 | 0 | 2,359 | 361 | 0 | 2,720 | | | | | | | | | |
| PGM | 11 | Strawberry Hills Waterline | 771 | 0 | 0 | 0 | 0 | 771 | 828 | 0 | 1,599 | | | | | | | | | |
| PGM | 12 | Middletown Rd-Bensville Rd Waterline Interconnection | 55 | 1,222 | 2,216 | 0 | 0 | 3,493 | 4,452 | 0 | 7,945 | | | | | | | | | |
| PGM | 13 | Waldorf Water Tower #8 | 82 | 1,698 | 1,634 | 0 | 0 | 3,415 | 268 | 0 | 3,682 | | | | | | | | | |
| PGM | 14 | Waldorf Water Tower #8 Water Distribution | 86 | 494 | 0 | 0 | 0 | 580 | 253 | 0 | 834 | | | | | | | | | |
| DPW | 15 | Old Washington Road Waterline | 0 | 0 | 0 | 651 | 0 | 651 | 639 | 0 | 1,290 | | | | | | | | | |
| PGM | 16 | Potomac River Water Supply Treatment Plant | 402 | 502 | 752 | 352 | 1,317 | 3,325 | 776 | 85,872 | 89,972 | | | | | | | | | |
| PGM | 17 | WSSC Waldorf Interconnection | 1,466 | 12,275 | 19,167 | 3,455 | 0 | 36,362 | 5,051 | 0 | 41,414 | | | | | | | | | |
| PGM | 18 | White Plains Water Enhancements | 72 | 676 | 656 | 0 | 0 | 1,405 | 168 | 0 | 1,573 | | | | | | | | | |
| PGM | 19 | Acton Lane Water Main Extension | * | 210 | 1,351 | 0 | 0 | 1,561 | 0 | 0 | 1,561 | | | | | | | | | |
| PGM | 20 | Waldorf Well #18 | * | 465 | 216 | 1,716 | 1,656 | 0 | 4,053 | 0 | 0 | | | | | | | | | |
| PGM | 21 | Billingsley Road Water Main Extension | * | 330 | 1,756 | 1,756 | 0 | 0 | 3,842 | 0 | 0 | | | | | | | | | |
| PGM | 22 | Leonardtown Road Water Main Replacement | * | 0 | 0 | 406 | 1,566 | 2,351 | 4,323 | 0 | 4,702 | | | | | | | | | |
| DPW | 23 | Waldorf Well #17 | * | 3,669 | 0 | 0 | 0 | 0 | 3,669 | 4,383 | 0 | | | | | | | | | |
| | | Total without inflation | \$9,374 | \$29,324 | \$36,128 | \$13,445 | \$9,434 | \$97,705 | \$28,143 | \$92,920 | \$218,768 | | | | | | | | | |
| | | Contingency-inflation | 885 | 3,883 | 6,028 | 2,718 | 2,261 | 15,775 | | \$25,488 | 41,263 | | | | | | | | | |
| | | Total Connection Fee Projects | \$10,259 | \$33,207 | \$42,156 | \$16,163 | \$11,695 | \$113,480 | \$28,143 | \$118,408 | \$260,031 | | | | | | | | | |
| | | TOTAL WATER | \$14,387 | \$44,941 | \$74,302 | \$22,873 | \$16,571 | \$173,074 | \$45,021 | \$229,429 | \$447,523 | | | | | | | | | |

*New Projects to the 5 year CIP

^Additional funding for existing project

CHARLES COUNTY COMMISSIONERS OF CHARLES COUNTY, MD
FISCAL YEAR 2024 PROPOSED CAPITAL PROJECT BUDGET
FY2024-FY2028 CAPITAL IMPROVEMENT PROGRAM

| Department | Page Ref. # | (\$ in thousands) | | | | | | 5-Year Total '24-'28 | Prior Aппр. thru FY23 | Beyond FY 2028 | Project Total | | | | | | |
|---------------------------------|-------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------------|-----------------------|------------------|------------------|--|--|--|--|--|--|
| | | | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | | | | | | | | | | |
| <u>SEWER- User Fee</u> | | | | | | | | | | | | | | | | | |
| <u>Financing Sources</u> | | | | | | | | | | | | | | | | | |
| | | Bonds | \$37,741 | \$50,653 | \$35,291 | \$27,643 | \$20,130 | \$171,458 | \$78,299 | \$104,577 | \$354,334 | | | | | | |
| | | Operating Transfer | 63 | 63 | 63 | 0 | 0 | 189 | 234 | 0 | 422 | | | | | | |
| | | Total County Funding | \$37,804 | \$50,716 | \$35,354 | \$27,643 | \$20,130 | \$171,647 | \$78,533 | \$104,577 | \$354,756 | | | | | | |
| | | State | 0 | 0 | 0 | 0 | 0 | 0 | 180 | 0 | 180 | | | | | | |
| | | Other: WSSC | 3,701 | 4,417 | 3,246 | 2,756 | 2,016 | 16,136 | 6,181 | 16,459 | 38,776 | | | | | | |
| | | Total Funding | \$41,505 | \$55,133 | \$38,600 | \$30,399 | \$22,146 | \$187,783 | \$84,893 | \$121,036 | \$393,712 | | | | | | |
| <u>Capital Costs</u> | | | | | | | | | | | | | | | | | |
| DPW | 1 | Automation & Technology Master Plan | 116 | 417 | 637 | 0 | 0 | 1,170 | 2,542 | 0 | 3,712 | | | | | | |
| DPW | 2 | Utilities Professional Development & Training Center | 0 | 0 | 103 | 702 | 0 | 805 | 0 | 0 | 805 | | | | | | |
| DPW | 3 | Utilities Waldorf Regional Facility | 0 | 366 | 1,590 | 1,628 | 1,603 | 5,186 | 0 | 0 | 5,186 | | | | | | |
| DPW | 25 | MWWTP Electrical System Replacement | 4,641 | 4,625 | 3,124 | 1,714 | 0 | 14,104 | 5,878 | 0 | 19,982 | | | | | | |
| DPW | 26 | Mattawoman Infiltration and Inflow PH II | 965 | 666 | 2,106 | 2,106 | 2,106 | 7,949 | 9,794 | 2,106 | 19,850 | | | | | | |
| DPW | 27 | Mattawoman WWTP Automation | 899 | 899 | 899 | 139 | 0 | 2,836 | 6,206 | 0 | 9,043 | | | | | | |
| DPW | 28 | Pump Station Rehabs and Replacements | 5,104 | 11,631 | 7,734 | 4,394 | 2,714 | 31,577 | 7,188 | 5,756 | 44,521 | | | | | | |
| DPW | 29 | Satellite Wastewater Facility Upgrades | 3,228 | 6,929 | 1,653 | 894 | 894 | 13,598 | 4,491 | 894 | 18,983 | | | | | | |
| DPW | 30 | MWWTP Clarifier and Thickener Improvements | 1,676 | 2,729 | 1,468 | 454 | 0 | 6,326 | 12,479 | 0 | 18,805 | | | | | | |
| DPW | 31 | MWWTP Utility Water System Eval. & Improv. | 359 | 497 | 492 | 1,037 | 526 | 2,911 | 1,757 | 0 | 4,668 | | | | | | |
| DPW | 34 | Clifton WWTP Improvements | 3,105 | 0 | 0 | 0 | 0 | 3,105 | 11,247 | 0 | 14,352 | | | | | | |
| DPW | 36 | MWWTP Septage/Hauled Waste Receiving Facility | 1,559 | 1,559 | 1,571 | 1,523 | 814 | 7,027 | 751 | 0 | 7,777 | | | | | | |
| DPW | 37 | MWWTP Effluent Filters Improvements | 3,341 | 3,669 | 2,823 | 2,823 | 866 | 13,523 | 2,399 | 0 | 15,922 | | | | | | |
| DPW | 38 | MWWTP Reclaimed Water Pump Station Improv | 930 | 931 | 881 | 0 | 0 | 2,742 | 710 | 0 | 3,452 | | | | | | |
| DPW | 39 | MWWTP Effluent PS Force main Surge Mgmt | 1,214 | 1,263 | 749 | 0 | 0 | 3,227 | 800 | 0 | 4,027 | | | | | | |
| DPW | 40 | MWWTP Belt Filter Press Replacement Phase II | 2,081 | 2,051 | 764 | 0 | 0 | 4,897 | 4,499 | 0 | 9,395 | | | | | | |
| DPW | 41 | MWWTP Process Improvements - Parent | 2,116 | 3,300 | 3,606 | 5,299 | 8,443 | 22,763 | 1,831 | 83,753 | 108,347 | | | | | | |
| DPW | 42 | MWWTP UV Disinfection System Upgrades | 2,728 | 2,606 | 578 | 0 | 0 | 5,912 | 2,071 | 0 | 7,984 | | | | | | |
| DPW | 43 | MWWTP Headworks Improvements | 573 | 2,059 | 1,939 | 1,939 | 1,939 | 8,447 | 492 | 2,089 | 11,028 | | | | | | |
| DPW | 44 | MWWTP BNR Improvements-Parent | 4,589 | 3,725 | 3,627 | 3,627 | 855 | 16,421 | 970 | 0 | 17,391 | | | | | | |
| DPW | 45 | Post Office Road Sewer Capacity Improvements ^ | 992 | 993 | 0 | 0 | 0 | 1,985 | 6,457 | 0 | 8,442 | | | | | | |

CHARLES COUNTY COMMISSIONERS OF CHARLES COUNTY, MD
FISCAL YEAR 2024 PROPOSED CAPITAL PROJECT BUDGET
FY2024-FY2028 CAPITAL IMPROVEMENT PROGRAM

| Department | Page Ref. # | (\$ in thousands) | | | | | | 5-Year Total '24-'28 | Prior Approp. thru FY23 | Beyond FY 2028 | Project Total |
|------------------------------|-------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|-------------------------|------------------|------------------|
| | | | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | | | | |
| PGM | 47 | Zekiah Interceptor Sewer Upgrades | 183 | 1,498 | 0 | 0 | 0 | 1,681 | 2,168 | 0 | 3,848 |
| PGM | 48 | Sewer Pump Station Capacity Study | 63 | 0 | 0 | 0 | 0 | 63 | 165 | 0 | 227 |
| | | Total without inflation | \$40,462 | \$52,413 | \$36,345 | \$28,277 | \$20,758 | \$178,254 | \$84,893 | \$94,598 | \$357,745 |
| | | Contingency-inflation | 1,043 | 2,720 | 2,255 | 2,122 | 1,388 | 9,529 | | 26,438 | 35,967 |
| | | Total User Fee Projects | \$41,505 | \$55,133 | \$38,600 | \$30,399 | \$22,146 | \$187,783 | \$84,893 | \$121,036 | \$393,712 |
| SEWER- Connection Fee | | | | | | | | | | | |
| Financing Sources | | | | | | | | | | | |
| | | Bonds | \$20,581 | \$22,419 | \$25,900 | \$33,464 | \$26,260 | \$128,624 | \$41,003 | \$80,151 | \$249,778 |
| | | Operating Transfer | 63 | 0 | 0 | 0 | 0 | 63 | 210 | 0 | 273 |
| | | Total County Funding | \$20,644 | \$22,419 | \$25,900 | \$33,464 | \$26,260 | \$128,687 | \$41,213 | \$80,151 | \$250,051 |
| | | State | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 0 | 120 |
| | | Other: WSSC | 2,303 | 2,811 | 2,035 | 1,708 | 1,313 | 10,170 | 4,086 | 10,973 | 25,230 |
| | | Total Funding | \$22,947 | \$25,230 | \$27,935 | \$35,172 | \$27,573 | \$138,857 | \$45,419 | \$91,124 | \$275,401 |
| Capital Costs | | | | | | | | | | | |
| DPW | 25 | MWWTP Electrical System Replacement | 3,094 | 3,084 | 2,082 | 1,142 | 0 | 9,402 | 3,919 | 0 | 13,321 |
| DPW | 26 | Mattawoman Infiltration and Inflow PH II | 644 | 444 | 1,404 | 1,404 | 1,404 | 5,300 | 6,529 | 1,404 | 13,233 |
| DPW | 27 | Mattawoman WWTP Automation | 599 | 600 | 600 | 92 | 0 | 1,891 | 4,138 | 0 | 6,028 |
| DPW | 30 | MWWTP Clarifier and Thickener Improvements | 1,118 | 1,819 | 978 | 302 | 0 | 4,218 | 8,319 | 0 | 12,537 |
| DPW | 31 | MWWTP Utility Water System Eval. & Improv. | 239 | 332 | 328 | 692 | 350 | 1,941 | 1,171 | 0 | 3,112 |
| PGM | 32 | Zekiah Pump Station Upgrade | 1,635 | 1,236 | 5,586 | 5,586 | 2,506 | 16,549 | 1,432 | 0 | 17,981 |
| PGM | 33 | Zekiah Pump Station Force main | 340 | 286 | 1,135 | 1,006 | 0 | 2,767 | 1,879 | 0 | 4,646 |
| PGM | 35 | Hughesville Collection Sewer System | 1,985 | 986 | 2,586 | 5,586 | 5,586 | 16,729 | 1,057 | 9,086 | 26,872 |
| DPW | 36 | MWWTP Septage/Hauled Waste Receiving Facility | 1,039 | 1,040 | 1,048 | 1,016 | 542 | 4,684 | 500 | 0 | 5,185 |
| DPW | 37 | MWWTP Effluent Filters Improvements | 2,228 | 2,446 | 1,882 | 1,882 | 578 | 9,015 | 1,599 | 0 | 10,614 |
| DPW | 38 | MWWTP Reclaimed Water Pump Station Improvements | 620 | 620 | 588 | 0 | 0 | 1,828 | 473 | 0 | 2,301 |
| DPW | 39 | MWWTP Effluent PS Force main Surge Management System | 810 | 842 | 500 | 0 | 0 | 2,151 | 534 | 0 | 2,685 |
| DPW | 40 | MWWTP Belt Filter Press Replacement | 1,387 | 1,368 | 510 | 0 | 0 | 3,264 | 2,999 | 0 | 6,264 |
| DPW | 41 | MWWTP Process Improvements - Parent | 1,410 | 2,200 | 2,404 | 3,532 | 5,628 | 15,175 | 1,220 | 55,836 | 72,231 |
| DPW | 42 | MWWTP UV Disinfection System Upgrades | 1,819 | 1,737 | 386 | 0 | 0 | 3,942 | 1,381 | 0 | 5,322 |
| DPW | 43 | MWWTP Headworks Improvements | 382 | 1,372 | 1,292 | 1,292 | 1,292 | 5,632 | 328 | 1,392 | 7,352 |
| DPW | 44 | MWWTP BNR Improvements-Parent | 1,967 | 1,596 | 1,554 | 1,554 | 366 | 7,038 | 416 | 0 | 7,453 |

*New Projects to the 5 year CIP

^Projects that were previously fully funded and now require increases

CHARLES COUNTY COMMISSIONERS OF CHARLES COUNTY, MD
FISCAL YEAR 2024 PROPOSED CAPITAL PROJECT BUDGET
FY2024-FY2028 CAPITAL IMPROVEMENT PROGRAM

| Department | Page Ref. # | (\$ in thousands) | | | | | 5-Year Total '24-'28 | Prior Aprop. thru FY23 | Beyond FY 2028 | Project Total |
|------------|-------------|--------------------------------------|-----------------|-----------------|-----------------|-----------------|----------------------|------------------------|------------------|------------------|
| | | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 | | | | |
| PGM | 46 | Hughesville Package Treatment Plant | 575 | 176 | 176 | 5,426 | 5,426 | 11,779 | 5,915 | 3,550 |
| PGM | 47 | Zekiah Interceptor Sewer Upgrades | 122 | 998 | 0 | 0 | 0 | 1,120 | 1,445 | 0 |
| PGM | 48 | Sewer Pump Station Capacity Study | 63 | 0 | 0 | 0 | 0 | 63 | 165 | 0 |
| | | Total without inflation | \$22,074 | \$23,182 | \$25,038 | \$30,514 | \$23,679 | \$124,487 | \$45,419 | \$71,268 |
| | | Contingency-inflation | 873 | 2,048 | 2,897 | 4,658 | 3,894 | 14,370 | | 19,856 |
| | | Total Connection Fee Projects | \$22,947 | \$25,230 | \$27,935 | \$35,172 | \$27,573 | \$138,857 | \$45,419 | \$91,124 |
| | | TOTAL SEWER | \$64,452 | \$80,363 | \$66,535 | \$65,571 | \$49,719 | \$326,640 | \$130,312 | \$212,160 |
| | | | | | | | | | | \$669,113 |

*New Projects to the 5 year CIP

^Projects that were previously fully funded and now require increases

Note: Numbers may be off slightly due to rounding.