

Fund 69300

Sewer Construction Improvements

Focus

Fund 69300, Sewer Construction Improvements, provides for wastewater management construction projects through a transfer of funds from Fund 69000, Sewer Revenue. All projects in Fund 69300 are fully supported by sewer system revenues.

Funding in the amount of \$70,000,000 is included in Fund 69300, Sewer Construction Improvements, in FY 2019. FY 2019 funding will provide for the following projects:



Photo of the Norman M. Cole Jr. Pollution Control Plant

Pumping Stations

This project provides for the planned replacement of pumping stations throughout the County. FY 2019 funding of \$5,673,694 is included for the regularly scheduled repair, renovation, and replacement of pumping station equipment and facilities. There will be three pump stations in the design phase and six pump stations in the construction phase in FY 2019.

Robert P. McMath Facility Rehabilitation

This project will provide funding in the amount of \$200,000 for the maintenance of the Robert P. McMath Facility that is the headquarters for the Wastewater Collection Division in Burke, Virginia.

Integrated Sewer Metering

This project will provide for the planned replacement of sewer meters throughout the County. FY 2019 funding in the amount of \$500,000 is provided for the continuation of replacing sewer meters used for measuring wastewater flow to and from other jurisdictions for billing and monitoring purposes as well as portable meters used in infiltration and inflow studies to measure wet weather flows.

Extension and Improvement Projects

Funding in the amount of \$3,000,000 is included to satisfy the annual appropriation requirement for the County's Extension and Improvement (E&I) Program as approved by the Board of Supervisors on April 12, 2011. This policy adjusts the Connection Charges such that the future cost of the E&I Program is shared equally between the County's Sewer Fund and the property owners seeking public sewer service when the Health Department determines the properties' septic systems have failed.

Collection System Replacement and Rehabilitation

This is a continuing project established to implement systematic rehabilitation of the County's nearly 3,242 miles of sanitary sewer lines. Rehabilitation includes, among other things, the use of trenchless technology to rehabilitate approximately 20 miles of sewer per year. FY 2019 funding in the amount of \$5,616,773 is included to continue the systematic rehabilitation of the County's sewer lines.

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Force Main Rehabilitation

This program began in FY 2014 and provides for the rehabilitation of the County's force mains. FY 2019 funding in the amount of \$5,276,333 is included to complete the rehabilitation of the following force mains: Waynewood I and II, Mount Vernon, Merrywood, Tyson's Dodge, Wellington I, Langley School, Ravenwood, Riverwood and Jones Point.

Noman Cole Treatment Plant Renewal

This project provides for the continuation of systematic rehabilitation of structures and equipment at the Noman M. Cole, Jr. Pollution Control Plant (NMCCPCP). FY 2019 funding in the amount of \$14,680,739 is included for the rehabilitation and replacement of pumps, gates, and valves; stormwater runoff improvements, and continuation of the rehabilitation of the motor control centers/distribution centers (MCC/DC) and raw wastewater pump station facility.

Arlington Wastewater Treatment Plant Rehabilitation

This project will provide funding for Fairfax County's share of the plant upgrades at the Arlington Wastewater Treatment Plant. FY 2019 funding in the amount of \$1,276,340 is included for annual repair and rehabilitation work for various facilities as scheduled in Arlington County's Capital Improvement Program. The County is responsible for 3.0 mgd of the 40 mgd or 7.5 percent of the capacity at the Arlington Wastewater Treatment Plant.

Alexandria Renew Enterprises Upgrade, Replacement and Renewal

This project funds the County's share of the upgrades to the Alexandria Renew Enterprises (AlexRenew) Treatment Plant. Funding supports the design and construction of a State of the Art Nitrogen Upgrade Program (SANUP) for nitrogen removal. FY 2019 funding in the amount of \$16,086,600 is included for engineering design, construction management, landscape architecture and engineering services during construction to comply with the nutrient discharge limits. The County is responsible for 32.4 mgd of the 54 mgd or 60 percent of the capacity at the Alexandria Renew Enterprises Treatment Plant.

Blue Plains Upgrade Replacement and Rehabilitation

This project funds the County's share of upgrades to the DC Water's Blue Plains Treatment Plant. FY 2019 funding in the amount of \$11,435,521 is included for facility improvements to comply with nutrient discharge limits. Projects supporting the Enhanced Nitrogen Removal Program include providing an additional 40 million gallons of new anoxic reactor capacity for nitrogen removal, a new post aeration facility, pump station, and other new facilities to store and feed methanol and alternative sources of carbon. In addition, funding will also provide for the Clean Rivers Project to prevent combined storm and sanitary overflows during major storm events by storing the overflow in tunnels until the plant has capacity to fully treat the water. This project is currently under construction. The County is responsible for 31 mgd of the 370 mgd or 8.38 percent of the capacity at the Blue Plains Treatment Plant.

Sewer Sag Program

This project funds the condition assessment of 166 segments of 8 to 15 inch gravity sewer lines and provides recommendations for the rehabilitation and/or replacement alternatives. FY 2019 funding in the amount of \$1,254,000 will provide for the next phase of this program, which includes construction work.

Large Diameter Pipe Rehabilitation and Replacement

This project supports the condition assessment of 49 miles of sewer lines with a diameter of 15 inches or larger and provides recommendations for the rehabilitation and/or replacement alternatives. FY 2019

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funding in the amount of \$5,000,000 will provide for the next phase of this program, which includes construction work.

Changes to FY 2019 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2019 Revised Budget Plan since passage of the FY 2019 Adopted Budget Plan. Included are all adjustments made as part of the FY 2017 Carryover Review, and all other approved changes through December 31, 2017.

- ◆ **Carryover Adjustments** **\$41,718,026**
As part of the *FY 2017 Carryover Review*, the Board of Supervisors approved funding of \$41,718,026 due to the carryover of unexpended project balances.

A Fund Statement and a Summary of Capital Projects are provided on the following pages. The Summary of Capital Projects may include some projects without a Total Project Estimate amount. These projects are considered "continuing" projects or projects for which funding is necessary on an ongoing basis (e.g., a contingency or planning project).

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FUND STATEMENT

Fund 69300, Sewer Construction Improvements

| | FY 2017 Actual | FY 2018 Adopted Budget Plan | FY 2018 Revised Budget Plan | FY 2019 Advertised Budget Plan |
|-----------------------------------|-------------------|-----------------------------------|-----------------------------------|--------------------------------------|
| Beginning Balance | \$47,780,222 | \$0 | \$41,718,026 | \$0 |
| Transfer In: | | | | |
| Sewer Revenue (69000) | \$74,650,000 | \$69,339,663 | \$69,339,663 | \$70,000,000 |
| Total Transfers In | \$74,650,000 | \$69,339,663 | \$69,339,663 | \$70,000,000 |
| Total Available | \$122,430,222 | \$69,339,663 | \$111,057,689 | \$70,000,000 |
| Total Expenditures | \$80,712,196 | \$69,339,663 | \$111,057,689 | \$70,000,000 |
| Total Disbursements | \$80,712,196 | \$69,339,663 | \$111,057,689 | \$70,000,000 |
| Ending Balance¹ | \$41,718,026 | \$0 | \$0 | \$0 |

¹ The capital projects in this sewer fund are budgeted based on the total project costs. Most projects span multiple years, from design to construction completion. Therefore, funding for capital projects is carried forward each fiscal year, and ending balances fluctuate, reflecting the carryover of these funds.

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FY 2019 Summary of Capital Projects

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| Project | Total Project Estimate | FY 2017 Actual Expenditures | FY 2018 Revised Budget | FY 2019 Advertised Budget Plan |
|--|------------------------------|-----------------------------------|------------------------------|--------------------------------------|
| Alexandria WWTP Upgrades and Rehab (WW-000021) | \$128,780,506 | \$11,407,243.89 | \$22,840,126.29 | \$16,086,600 |
| Arlington WWTP Upgrades and Rehab (WW-000020) | 9,485,340 | 979.00 | 3,900,062.00 | 1,276,340 |
| Blue Plains WWTP Upgrades and Rehab (WW-000022) | 122,251,906 | 13,978,517.78 | 13,035,357.68 | 11,435,521 |
| Collection System Replacement and Rehab (WW-000007) | 98,593,503 | 14,994,981.29 | 12,666,018.62 | 5,616,773 |
| Dogue Creek Rehabilitation and Replacement (WW-000002) | 22,838,600 | 3,429.50 | 344.13 | 0 |
| Extension and Improvement Projects (WW-000006) | 18,888,114 | 654,417.30 | 3,744,055.62 | 3,000,000 |
| Force Main Rehabilitation (WW-000008) | 22,023,975 | 8,472,839.58 | 6,060,160.50 | 5,276,333 |
| Integrated Sewer Metering (WW-000005) | 2,582,906 | 234,570.19 | 841,879.14 | 500,000 |
| Large Diameter Pipe Rehabilitation and Replacement (WW-000026) | 16,140,815 | 449,564.01 | 10,326,435.88 | 5,000,000 |
| Laurel Hill Adaptive Reuse (WW-000023) | 650,000 | 113,071.22 | 451,579.91 | 0 |
| Noman Cole Treatment Plant Renewal (WW-000009) | 79,960,032 | 17,652,011.24 | 22,886,989.07 | 14,680,739 |
| Pumping Station Rehabilitation (WW-000001) | 52,055,883 | 12,662,913.07 | 11,251,087.02 | 5,673,694 |
| Robert P. McMath Facility Improvements (WW-000004) | 2,157,000 | 68,657.91 | 431,436.66 | 200,000 |
| Sewer Sag Program (WW-000024) | 4,010,000 | 19,000.00 | 2,622,156.55 | 1,254,000 |
| Total | \$580,418,580 | \$80,712,195.98 | \$111,057,689.07 | \$70,000,000 |