

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 \$86,000,000 is included in Fund 69300, Sewer Construction Improvements, in FY 2022. FY 2022 funding will provide for the following projects:

Collection System Replacement and Rehabilitation

This is a continuing project established to implement systematic rehabilitation of the County's approximately 3,300 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 2022 funding in the amount of \$3,000,000 is included to continue the systematic rehabilitation of the County's sewer lines.

Extension and Improvement Projects

Funding in the amount of \$1,000,000 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.

Gravity Sewer Capacity Improvements

This project funds the installation of sewer lines to provide the needed capacity to serve new development within the County. As areas develop, more strain is placed on the sanitary sewer system serving the area. FY 2022 funding in the amount of \$11,000,000 will provide for increasing the size of the gravity sewer or installing parallel gravity sewers.

Gravity Sewers

This project funds the inspection, repair, and replacement of gravity sewers within the wastewater collection system. FY 2022 funding in the amount of \$20,200,000 will provide for the closed-circuit television (CCTV) inspection of more than 200 miles of sewer and rehabilitation of over 25 miles of sewer using cured-in-place-pipe (CIPP). In addition, funding is provided for the repair and replacement of defective and aging gravity sewers, including emergency repair work. New initiatives for FY 2022 include detailed inflow and infiltration and creek bed investigations.

Integrated Sewer Metering

This project will provide for the planned replacement of sewer meters throughout the County. FY 2022 funding in the amount of \$1,000,000 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.

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 2022 funding in the amount of \$1,117,000 will provide for the next phase of this program, which includes construction work.

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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 2022 funding in the amount of \$36,000,000 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.

Pumping Stations

This project provides for the planned replacement of pumping stations throughout the County. FY 2022 funding of \$12,500,000 is included for the regularly scheduled repair, renovation, and replacement of pumping station equipment and facilities. There will be eight pump stations in the design phase and four pump stations in the construction phase in FY 2022.

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 2022 funding in the amount of \$183,000 will provide for the next phase of this program, which includes construction work.

Pandemic Response and Impact

The Wastewater Management Program of DPWES has continued to work at full capacity during the COVID-19 pandemic to fulfill the System's responsibilities to its customers. Accomplishing this task has required considerable innovation, hard work, and adaptation (e.g., additional personal protective equipment, facility cleaning, distancing measures, equipment, and new tools) that have increased the System's resource requirements.

As of March 2021, wastewater revenue was tracking higher than budget, due largely to the influx of availability fees, and expenses remain in line with budgeted estimates. The County has continued to suspend service disconnections for delinquent payments, which as of March 2021 is estimated at \$2.2 million. The County received \$1.47 million in federal funding to help customers with past due utility bills due to COVID-19 related financial hardships. All construction projects budgeted for FY 2021 have proceeded as planned and the same is anticipated for FY 2022.

The Wastewater Management staff worked with the System's financial advisors to project estimated impacts to revenues and developed financial management strategies. The System's 10-year financial plan has been updated to include adjustments for revenues during the pandemic and staff is closely monitoring unfolding trends throughout the year.

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FY 2022 Funding Adjustments

The following funding adjustments from the FY 2021 Adopted Budget Plan are necessary to support the FY 2022 program. Included are all adjustments recommended by the County Executive that were approved by the Board of Supervisors, as well as any additional Board of Supervisors' actions, as approved in the adoption of the Budget on May 4, 2021.

Capital Projects **\$21,000,000**
Funding of \$86,000,000 in Capital Projects, an increase of \$21,000,000 over the FY 2021 Adopted Budget Plan, has been included in FY 2022 for priority wastewater capital projects.

Changes to FY 2021 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2021 Revised Budget Plan since passage of the FY 2021 Adopted Budget Plan. Included are all adjustments made as part of the FY 2020 Carryover Review, FY 2021 Mid-Year Review, FY 2021 Third Quarter Review, and all other approved changes through April 30, 2021.

Carryover Adjustments **\$68,386,732**
As part of the FY 2020 Carryover Review, the Board of Supervisors approved funding of \$68,386,732 due to the carryover of unexpended project balances in the amount of \$56,386,732 and an adjustment of \$12,000,000 to support Fairfax County's share of facility improvements at the Alexandria Wastewater Treatment Plant to comply with nutrient discharge limits.

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FUND STATEMENT

Category	FY 2020 Actual	FY 2021 Adopted Budget Plan	FY 2021 Revised Budget Plan	FY 2022 Advertised Budget Plan	FY 2022 Adopted Budget Plan
Beginning Balance	\$56,355,117	\$0	\$54,311,053	\$0	\$0
Transfers In:					
Sewer Revenue (69000) ¹	\$75,000,000	\$65,000,000	\$77,000,000	\$86,000,000	\$86,000,000
Total Transfers In	\$75,000,000	\$65,000,000	\$77,000,000	\$86,000,000	\$86,000,000
Total Available	\$131,355,117	\$65,000,000	\$131,311,053	\$86,000,000	\$86,000,000
Total Expenditures	\$77,044,064	\$65,000,000	\$131,311,053	\$86,000,000	\$86,000,000
Total Disbursements	\$77,044,064	\$65,000,000	\$131,311,053	\$86,000,000	\$86,000,000
Ending Balance²	\$54,311,053	\$0	\$0	\$0	\$0

¹ Additional FY 2021 funding was provided to support Fairfax County's share of facility improvements at the Alexandria Wastewater Treatment Plant (WW-000021) to comply with nutrient discharge limits.

² 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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SUMMARY OF CAPITAL PROJECTS

Project	Total Project Estimate	FY 2020 Actual Expenditures	FY 2021 Revised Budget	FY 2022 Advertised Budget Plan	FY 2022 Adopted Budget Plan
Alexandria WWTP Upgrades and Rehab (WW-000021)		\$13,751,760.76	\$20,342,342.02	\$0	\$0
Arlington WWTP Upgrades and Rehab (WW-000020)		622,306.00	1,638,073.00	0	0
Blue Plains WWTP Upgrades and Rehab (WW-000022)		8,345,079.66	9,859,355.94	0	0
Colfax Gravity Sanitary Sewer Line Project (WW-000027)		(74,295.07)	1,245,670.00	0	0
Collection System Replacement and Rehab (WW-000007)		4,945,285.35	8,427,043.66	3,000,000	3,000,000
Dogue Creek Rehabilitation and Replacement (WW-000002)	22,838,600	0.00	344.13	0	0
Extension and Improvement Projects (WW-000006)		1,038,338.58	3,930,301.44	1,000,000	1,000,000
Force Main Rehabilitation (WW-000008)		729,549.56	5,244,477.20	0	0
Gravity Sewer Capacity Improvements (WW-000032)	29,100,000	261,712.53	17,838,287.22	11,000,000	11,000,000
Gravity Sewers (WW-000028)		5,957,647.10	15,084,112.63	20,200,000	20,200,000
Integrated Sewer Metering (WW-000005)	5,163,906	65,186.81	2,735,648.15	1,000,000	1,000,000
Large Diameter Pipe Rehabilitation and Replacement (WW-000026)		1,541,599.33	2,572,585.14	1,117,000	1,117,000
Laurel Hill Adaptive Reuse (WW-000023)	650,000	34,546.71	44,860.78	0	0
Noman Cole Treatment Plant Renewal (WW-000009)		31,591,687.10	17,001,045.55	36,000,000	36,000,000
Pumping Station Rehabilitation (WW-000001)		7,779,398.57	18,189,739.68	12,500,000	12,500,000
Robert P. McMath Facility Improvements (WW-000004)	2,425,000	96,273.55	620,519.16	0	0
Sewer Sag Program (WW-000024)		341,121.65	5,915,263.29	183,000	183,000
Wastewater Facility Share (WW-000030)	432,000	16,865.50	415,134.50	0	0
Wastewater Operations & Maintenance (WW-000031)	210,000	0.00	206,250.00	0	0
Total	\$60,819,506	\$77,044,063.69	\$131,311,053.49	\$86,000,000	\$86,000,000