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.

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

Funding in the amount of $86,389,000 is included in Fund 69300, Sewer Construction Improvements, in FY 2016. FY 2016 funding will provide for the following projects:

Pumping Stations

This project provides for the planned replacement of pumping stations throughout the County. FY 2016 funding of $8,111,000 is included for the regularly scheduled repair, renovation, and replacement of pumping station equipment and facilities. There will be four pump stations in the design phase and three pump stations in the construction phase in FY 2016.

Robert P. McMath Facility Improvements

This project will provide funding for improvements at the Robert P. McMath Facility. The McMath Facility houses staff who support pump station operation and maintenance; collection system maintenance, inspections and metering; the Miss Utility Program, the Trouble Response Center and administrative staff to support field operations for the Wastewater Collection Division. FY 2016 funding in the amount of $775,000 is included to complete interior repairs such as interior lighting upgrades, HVAC improvements and additional energy conservation measures.

Integrated Sewer Metering

This project will provide for the planned replacement of sewer meters throughout the County. FY 2016 funding in the amount of $100,000 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 more than 3,422 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 2016 funding in the amount of $16,800,000 is included to continue the systematic rehabilitation of the County's sewer lines.

Force Main Rehabilitation

This program began in FY 2014 and provides for the rehabilitation of the County's force mains. FY 2016 funding in in the amount of $2,260,000 is included to complete rehabilitation of the Dead Run, Accotink, Little Hunting Creek and Difficult Run force mains. In addition, there are nine other force mains scheduled to begin rehabilitation in FY 2016, including: Barcroft I, Barcroft II, Langley School, Mt. Vernon Terrance, Wellington I, Ravenwood, Springfield, Wayne Wood I, and Wayne Wood II.

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 (NMCPCP). FY 2016 funding in the amount of $13,108,000 is included for the rehabilitation and replacement of pumps, gates, and valves; rehabilitation of grit removal facilities; 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 2016 funding in the amount of $576,000 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 (AREnew) Treatment Plant. Funding supports the design and construction of a State of the Art Nitrogen Upgrade Program (SANUP) for nitrogen removal. The SANUP will be completed in 6 phases to allow the spread of design and construction costs over an 8 year period. The long range plan was completed in 2008, and 2 of the 6 phases were completed in 2011; the remaining phases will be completed by 2016. FY 2016 funding in the amount of $21,209,000 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 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 2016 funding in the amount of $16,950,000 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. Construction continues on this project and is scheduled to be completed in 2017. 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 and is scheduled to be completed by summer 2016. The County is responsible for 31 mgd of the 370 mgd or 8.38 percent of 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 2016 funding in the amount of $500,000 will provide for phase one of this new program which includes condition assessment of the most critical segments.

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 2016 funding in the amount of $3,000,000 will provide for phase one of this new program which includes condition assessment of the most critical segments.

Changes to FY 2015 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2015 Revised Budget Plan since passage of the FY 2015 Adopted Budget Plan. Included are all adjustments made as part of the FY 2014 Carryover Review, FY 2015 Third Quarter Review, and all other approved changes through April 30, 2015.

- **Carryover Adjustments** **$36,230,612**
  As part of the *FY 2014 Carryover Review*, the Board of Supervisors approved funding of $36,230,612 due to the carryover of unexpended project balances in the amount of $23,230,612 and an adjustment of $13,000,000 to fund Fairfax County's portion of the Capital Improvement Program (CIP) related to the Upper Occoquan Service Authority (UOSA) treatment plant upgrades using cash on hand rather than incurring debt.

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 2014 Actual	FY 2015 Adopted Budget Plan	FY 2015 Revised Budget Plan	FY 2016 Advertised Budget Plan	FY 2016 Adopted Budget Plan
Beginning Balance	$21,819,236	$0	$23,230,612	$0	$0
Transfer In:					
Sewer Revenue (69000)	$84,489,000	$83,693,176	$96,693,176	$86,389,000	$86,389,000
Total Transfers In	$84,489,000	$83,693,176	$96,693,176	$86,389,000	$86,389,000
Total Available	$106,308,236	$83,693,176	$119,923,788	$86,389,000	$86,389,000
Total Expenditures	$83,077,624	$83,693,176	$119,923,788	$86,389,000	$86,389,000
Total Disbursements	$83,077,624	$83,693,176	$119,923,788	$86,389,000	$86,389,000
Ending Balance[1]	$23,230,612	$0	$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 2016 Summary of Capital Projects

Fund 69300, Sewer Construction Improvements

Project	Total Project Estimate	FY 2014 Actual Expenditures	FY 2015 Revised Budget	FY 2016 Advertised Budget Plan	FY 2016 Adopted Budget Plan
Alexandria WWTP Upgrades and Rehab (WW-000021)	$89,632,399	$24,564,362.14	$38,067,638.03	$21,209,000	$21,209,000
Arlington WWTP Upgrades and Rehab (WW-000020)	6,469,000	1,022,149.00	1,629,376.00	576,000	576,000
Blue Plains WWTP Upgrades and Rehab (WW-000022)	83,270,059	31,359,094.69	27,037,665.13	16,950,000	16,950,000
Collection System Replacement and Rehab (WW-000007)	73,326,957	10,211,243.26	13,108,757.01	16,800,000	16,800,000
Dogue Creek Rehabilitation and Replacement (WW-000002)	23,378,000	534,498.52	1,229,518.71	0	0
Extension and Improvement Projects (WW-000006)	14,188,114	1,177,776.42	1,964,699.42	3,000,000	3,000,000
Force Main Rehabilitation (WW-000008)	6,110,000	113,968.25	3,736,031.75	2,260,000	2,260,000
Integrated Sewer Metering (WW-000005)	1,232,906	0.00	400,019.40	100,000	100,000
Large Diameter Pipe Rehabilitation and Replacement (WW-000026)	3,000,000	0.00	0.00	3,000,000	3,000,000
Laurel Hill Adaptive Reuse (WW-000023)	350,000	0.00	350,000.00	0	0
Noman Cole Treatment Plant Renewal (WW-000009)	35,245,554	6,220,326.57	8,766,071.12	13,108,000	13,108,000
Pumping Station Rehabilitation (WW-000001)	31,440,495	7,086,377.62	12,904,622.86	8,111,000	8,111,000
Robert P. McMath Facility Improvements (WW-000004)	2,845,000	787,827.56	729,388.87	775,000	775,000
Sewer Sag Program (WW-000024)	1,500,000	0.00	1,000,000.00	500,000	500,000
UOSA Treatment Plant Upgrades (WW-000025)	9,000,000	0.00	9,000,000.00	0	0
Total	$380,988,484	$83,077,624.03	$119,923,788.30	$86,389,000	$86,389,000