

SANITARY SEWERS

Sanitary Sewers Ten-Year Plan Proposed FY 2021 – FY 2029 Capital, Operating and Debt Service

Sanitary Sewer Rate	FY 2020 Approved	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total FY 21-30
Sanitary Sewer Rate (\$ per 1,000 gallons)	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	
Proposed Rate Increase	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
New Sanitary Sewer Rate	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	\$2.28	

Revenues	FY 2020 Approved	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total FY 21-30
Sewer Line Maintenance Fee	11,257,547	11,341,979	11,427,043	11,512,746	11,599,092	11,686,085	11,773,731	11,862,034	11,950,999	12,040,631	12,130,936	117,325,276
Sewer Connection Fee	2,310,000	4,000,000	4,120,000	4,243,600	4,370,908	4,502,035	4,637,096	4,776,209	4,919,495	5,067,080	5,219,093	45,855,517
New Debt Issuance	0	0	0	0	0	0	0	0	0	0	0	0
Fund Balance	0	0	0	0	0	0	0	0	0	0	0	0
Use of Fund Balance	0	36,749	4,377,420	3,402,826	3,581,208		0	0	0	0	0	11,398,203
Total Revenues	13,567,547	15,378,728	19,924,463	19,159,172	19,551,208	16,188,120	16,410,827	16,638,243	16,870,494	17,107,712	17,350,029	174,578,996

All Operating	7,511,005	7,802,586	7,982,087	8,166,330	8,355,450	8,549,584	8,748,875	8,953,467	9,163,512	9,379,164	9,600,582	86,701,637
All Capital Projects	3,453,193	4,898,020	9,185,000	9,230,000	7,628,100	5,427,000	5,479,000	5,534,000	5,591,000	5,651,000	5,715,000	64,338,120
All Debt Service	2,603,349	2,678,122	2,546,696	1,762,141	2,017,935	1,695,878	1,475,223	1,429,795	1,382,849	1,569,699	1,518,867	18,077,205
Total Expenditures	13,567,547	15,378,728	19,713,783	19,158,471	18,001,485	15,672,462	15,703,098	15,917,262	16,137,361	16,599,863	16,834,449	169,116,962

Operating Costs	FY 2020 Approved	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total FY 21-30
T&ES Personnel Charges (incl. Worker's Comp)	3,348,513	3,474,851	3,579,097	3,686,469	3,797,064	3,910,975	4,028,305	4,149,154	4,273,628	4,401,837	4,533,892	39,835,272
DEC Personnel Charges	47,138	48,300	49,749	51,241	52,779	54,362	55,993	57,673	59,403	61,185	63,021	553,705
Professional Services												
Additional Personnel & Consulting Services	404,490	347,270	357,688	368,419	379,471	390,855	402,581	414,659	427,098	439,911	453,109	3,981,061
Leaf Collection in CSO Areas	250,000	247,453	254,877	262,523	270,399	278,511	286,866	295,472	304,336	313,466	322,870	2,836,771
Fat, Oil, Grease (FOG Program)	200,000	200,000	206,000	212,180	218,545	225,102	231,855	238,810	245,975	253,354	260,955	2,292,776
Sanitary Sewer Capacity Study - Flow Metering, Sewer Modeling, CMOM	463,500	463,500	470,453	477,509	484,672	491,942	499,321	506,811	514,413	522,129	529,961	4,960,711
Sewer Billing	170,000	170,000	172,550	175,138	177,765	180,432	183,138	185,885	188,674	191,504	194,376	1,819,463
Infrastructure Repairs												
Sewer Jet Cleaning	260,000	260,000	263,900	267,859	271,876	275,955	280,094	284,295	288,560	292,888	297,281	2,782,708
Annual CCTV of Sewers	325,000	325,000	329,875	334,823	339,845	344,943	350,117	355,369	360,700	366,110	371,602	3,478,385
Heavy Cleaning of Sewers	315,000	315,000	319,725	324,521	329,389	334,330	339,344	344,435	349,601	354,845	360,168	3,371,357
Equipment Replacement	66,800	66,800	67,802	68,819	69,851	70,899	71,963	73,042	74,138	75,250	76,378	714,942
Corrective Maintenance	147,000	150,800	153,062	155,358	157,688	160,054	162,454	164,891	167,365	169,875	172,423	1,613,970
Other Non-Personnel (Training, Utilities, Rentals, etc.)	175,350	232,150	235,632	239,167	242,754	246,396	250,091	253,843	257,650	261,515	265,438	2,484,637
Building Maintenance												
Rodent Abatement in Sewers	90,000	90,000	91,350	92,720	94,111	95,523	96,956	98,410	99,886	101,384	102,905	963,245
Indirect Costs (Tr to G.F.)	1,248,214	1,411,462	1,430,328	1,449,584	1,469,240	1,489,307	1,509,796	1,530,718	1,552,085	1,573,909	1,596,203	15,012,633
Subtotal, Operating Costs	7,511,005	7,802,586	7,982,087	8,166,330	8,355,450	8,549,584	8,748,875	8,953,467	9,163,512	9,379,164	9,600,582	86,701,637

Sanitary Sewers Ten-Year Plan
Proposed FY 2021 – FY 2029 Capital, Operating and Debt Service
(continued)

Capital Projects	FY 2020 Approved	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total FY 21-30
Reconstruction and Extension of Sanitary Sewers	900,000	0	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	8,100,000
Green Infrastructure	350,000	0	0	0	0	0	0	0	0	0	0	0
Sanitary Sewer Asset Renewal Program	0	1,250,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	32,750,000
Combined Sewer Assessment and Rehab	0	2,805,000	3,900,000	3,900,000	0	0	0	0	0	0	0	10,605,000
AlexRenew WWTP Expansion	0	0	0	0	2,251,100	TBD	TBD	TBD	TBD	TBD	TBD	2,251,100
Capital Support of CSO Mitigation Projects	1,355,990	0	0	0	0	0	0	0	0	0	0	0
Capitalized DPI Positions	795,879	790,730	830,000	872,000	916,000	962,000	1,010,000	1,061,000	1,114,000	1,170,000	1,229,000	9,954,730
Capitalize Sustainability Coordinator	51,324	52,290	55,000	58,000	61,000	65,000	69,000	73,000	77,000	81,000	86,000	677,290
<i>Subtotal, Capital Projects</i>	<i>3,453,193</i>	<i>4,898,020</i>	<i>9,185,000</i>	<i>9,230,000</i>	<i>7,628,100</i>	<i>5,427,000</i>	<i>5,479,000</i>	<i>5,534,000</i>	<i>5,591,000</i>	<i>5,651,000</i>	<i>5,715,000</i>	<i>64,338,120</i>
Debt Service	FY 2020 Approved	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total FY 21-30
<i>Debt Service Payments</i>	<i>2,603,349</i>	<i>2,678,122</i>	<i>2,546,696</i>	<i>1,762,141</i>	<i>2,017,935</i>	<i>1,695,878</i>	<i>1,475,223</i>	<i>1,429,795</i>	<i>1,382,849</i>	<i>1,569,699</i>	<i>1,518,867</i>	18,077,205
Total Expenditures, All Categories	13,567,547	15,378,728	19,713,783	19,158,471	18,001,485	15,672,462	15,703,098	15,917,262	16,137,361	16,599,863	16,834,449	169,116,962

Note: Projects with a \$0 total funding are active capital projects funded in prior CIPs that do not require additional resources.

	FY 2020 and Before	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2021 - FY 2030
Sanitary Sewers												
Sanitary Sewers												
AlexRenew Wastewater Treatment Plant Capacity	0	0	0	0	2,251,100	0	0	0	0	0	0	2,251,100
Capital Support of CSO Mitigation Projects	1,355,990	0	0	0	0	0	0	0	0	0	0	0
Citywide Sewershed Infiltration & Inflow	19,861,440	0	0	0	0	0	0	0	0	0	0	0
Combined Sewer Assessment & Rehabilitation	3,700,000	2,805,000	3,900,000	3,900,000	0	0	0	0	0	0	0	10,605,000
Holmes Run Trunk Sewer	9,002,000	0	0	0	0	0	0	0	0	0	0	0
Reconstructions & Extensions of Sanitary Sewers	15,492,959	0	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	8,100,000
Sanitary Sewer Asset Renewal Program	0	1,250,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	32,750,000
Sanitary Sewers Total	49,412,389	4,055,000	8,300,000	8,300,000	6,651,100	4,400,000	4,400,000	4,400,000	4,400,000	4,400,000	4,400,000	53,706,100
Grand Total	49,412,389	4,055,000	8,300,000	8,300,000	6,651,100	4,400,000	4,400,000	4,400,000	4,400,000	4,400,000	4,400,000	53,706,100

ALEXRENEW WASTEWATER TREATMENT PLANT CAPACITY

DOCUMENT SUBSECTION: Sanitary Sewers
 MANAGING DEPARTMENT: Department of Transportation and Environmental Services

PROJECT LOCATION: 1500 Eisenhower Ave.
 REPORTING AREA: Southwest Quadrant

PRIMARY STRATEGIC THEME: Theme 8: Environmental Sustainability

PROJECT CATEGORY: 3
 ESTIMATE USEFUL LIFE: 21 - 25 Years

AlexRenew Wastewater Treatment Plant Capacity													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total FY 2021 - FY 2030
Expenditure Budget	2,251,100	0	0	0	0	2,251,100	0	0	0	0	0	0	2,251,100
Financing Plan													
Sanitary Sewer Fund	2,251,100	0	0	0	0	2,251,100	0	0	0	0	0	0	2,251,100
Financing Plan Total	2,251,100	0	0	0	0	2,251,100	0	0	0	0	0	0	2,251,100
Additional Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Project recosted as part of the development of the Proposed FY 2021 - FY 2030 CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides for a feasibility study and planning level engineering to be performed jointly between the City and AlexRenew to determine whether the existing AlexRenew facility can be expanded to treat an additional 4 million gallons per day (MGD), and other options to accommodate additional flows. Additionally, the City is pursuing another potential option to expand by acquiring additional treatment capacity by purchase from Fairfax County. Fairfax County has previously indicated that this capacity may be available to purchase, and the City will continue its discussions regarding this option. Funding for this study and planning level engineering is provided in FY 2024. Results of the study will be published in a future update to the Master Plan, and the CIP will be updated based on the results of the study.

As a part of the City’s 2013 Sanitary Sewer Master Plan (Master Plan) and in anticipation of future growth, it was recommended that the City seek an additional 4 MGD of wastewater treatment capacity at Alexandria Renew Enterprises (AlexRenew). This future treatment capacity was added to the FY2014-2023 CIP. In 2017, a state legislation was passed that required the City to accelerate the mitigation of the impacts of combined sewer overflows (CSO). Following the 2017 CSO legislation, the City transferred ownership of the combined sewer outfalls to AlexRenew. AlexRenew is currently in the preliminary design phases of its RiverRenew initiative, which will include significant construction and new facilities in order to convey combined sewer flows to the AlexRenew facility for treatment. This infrastructure must be constructed and operational by July 1, 2025 in order to comply with the 2017 CSO legislation. With the construction of RiverRenew, the City and AlexRenew will need to reassess options for additional wastewater treatment. Given that it is not anticipated that the City will reach its existing treatment capacity until after Year 2040, construction of additional wastewater treatment capacity will not be needed until after 2030.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Sanitary Sewer Master Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

CAPITAL SUPPORT OF CSO MITIGATION PROJECTS

DOCUMENT SUBSECTION: Sanitary Sewers
 MANAGING DEPARTMENT: Department of Transportation and Environmental Services

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 8: Environmental Sustainability

PROJECT CATEGORY: 1
 ESTIMATE USEFUL LIFE: Varies

Capital Support of CSO Mitigation Projects													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total FY 2021 - FY 2030
Expenditure Budget	1,355,990	1,355,990	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Sanitary Sewer Fund	1,355,990	1,355,990	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	1,355,990	1,355,990	0	0	0	0	0	0	0	0	0	0	0
Additional Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

As part of legislation passed by the 2017 Virginia General Assembly, the City has been required to accelerate its efforts to address combined sewer discharges from all four outfalls in the City. The bill mandated combined sewer overflow mitigation and construction at all outfalls be completed no later than July 1, 2025.

In order to meet this very aggressive mandated schedule for completion of the project, an agreement was reached with AlexRenew on May 1, 2018 that transferred the ownership of the CSO outfalls, along with the responsibility for construction and financing of future infrastructure to meet the timeline mandated by the General Assembly, to AlexRenew. AlexRenew, also known as Alexandria Sanitation Authority, is a City created, rate payer funded, public body that owns and operates the large interceptors, pump stations and wastewater treatment facility in the City. The outfall transfer between the City and AlexRenew was finalized at the June 23, 2018 City Council Public Hearing.

AlexRenew is currently in the design phase of the project, which is currently estimated to range from \$355 million to \$555 million. The cost estimates will be refined further as the design progresses. AlexRenew will be funding the project through issuance of rate-payer funded revenue bonds, along with funding provided by the State.

Although AlexRenew has taken ownership of the CSOs and responsibility for the outfall mitigation projects outlined in the LTCPU, the City is still responsible for supporting AlexRenew's efforts to complete these mitigation projects on the schedule set by the General Assembly. This funding provides support for the CSO mitigation efforts, including coordination on development special use permits and other City permits, inspection and monitoring during the construction phase, stakeholder coordination, public meetings and City Council updates, data collection, historical records research and other associated work associated with regulatory review and oversight.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Sanitary Sewer Master Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

COMBINED SEWER ASSESSMENT & REHABILITATION

DOCUMENT SUBSECTION: Sanitary Sewers
 MANAGING DEPARTMENT: Department of Transportation and Environmental Services

PROJECT LOCATION: Old Town CSO Area
 REPORTING AREA: Old Town

PRIMARY STRATEGIC THEME: Theme 8: Environmental Sustainability

PROJECT CATEGORY: 3
 ESTIMATE USEFUL LIFE: 30+ Years

Combined Sewer Assessment & Rehabilitation													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total FY 2021 - FY 2030
Expenditure Budget	14,305,000	3,700,000	2,805,000	3,900,000	3,900,000	0	0	0	0	0	0	0	10,605,000
Financing Plan													
Cash Capital	0	0	0	0	0	0	0	0	0	0	0	0	0
GO Bonds (Stormwater)	3,700,000	3,700,000	0	0	0	0	0	0	0	0	0	0	0
Sanitary Sewer Fund	10,605,000	0	2,805,000	3,900,000	3,900,000	0	0	0	0	0	0	0	10,605,000
Stormwater Utility Fund	0	0	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	14,305,000	3,700,000	2,805,000	3,900,000	3,900,000	0	0	0	0	0	0	0	10,605,000
Additional Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

Project recoded as part of the development of the Proposed FY 2021 - FY 2030 CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides for the condition assessment of sewers in the combined sewer service area in Old Town and remediation of structurally deficient sewers.

The City will perform condition assessments including cleaning and televising lines, assessing information to determine condition of lines, and determining if rehabilitation is needed. Structurally deficient sewers will be identified, and the results of the field work will be evaluated to develop remediation projects which are expected to include the relining of sewers and manhole repairs. Project funding totals \$14.3 million dating back to FY 2019. Additional funding is provided in FY 2021 to include inspection of all City-owned lateral sewers, along with providing for updated rehabilitation project costs. The assessment phase of this project was initiated in FY 2019. Project funding may be adjusted following the assessment period based on the condition of the sewers and need for rehabilitation.

In addition to the health and environmental benefits of this project, completion of this project will repair and renew the City's sewer infrastructure, extend the infrastructure's useful life, and reduce the number of pipe collapses and other emergency repairs.

The City is responsible for the ownership and maintenance of the sewers located in the combined sewer service area. The combined sewer outfalls are owned by Alexandria Renew Enterprises (AlexRenew). AlexRenew is also responsible for compliance with requirements of the combined sewer system permit issued by the Department of Environmental Quality and for complying with the legislation passed by the Virginia General Assembly in 2017, which requires that combined sewer discharges be mitigated to comply with the legislation by July 1, 2025. The City continues to work with AlexRenew to ensure this deadline is met.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

N/A

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

HOLMES RUN TRUNK SEWER

DOCUMENT SUBSECTION: Sanitary Sewers	PROJECT LOCATION: AlexRenew Plant to the City/Fairfax Border
MANAGING DEPARTMENT: Department of Transportation and Environmental Services	REPORTING AREA: Landmark/Van Dorn
PRIMARY STRATEGIC THEME: Theme 8: Environmental Sustainability	PROJECT CATEGORY: 3 ESTIMATE USEFUL LIFE: 30+ Years

Holmes Run Trunk Sewer													
	A (B + M) Total Budget & Financing	B Through 2020	C FY 2021	D FY 2022	E FY 2023	F FY 2024	G FY 2025	H FY 2026	I FY 2027	J FY 2028	K FY 2029	L FY 2030	M (C:L) Total FY 2021 - FY 2030
Expenditure Budget	9,002,000	9,002,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Cash Capital	500,000	500,000	0	0	0	0	0	0	0	0	0	0	0
GO Bonds (Sanitary)	4,100,000	4,100,000	0	0	0	0	0	0	0	0	0	0	0
Sanitary Sewer Fund	4,402,000	4,402,000	0	0	0	0	0	0	0	0	0	0	0
Financing Plan Total	9,002,000	9,002,000	0	0	0	0	0	0	0	0	0	0	0
Additional Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

No changes from previous CIP.

PROJECT DESCRIPTION & JUSTIFICATION

This project provides for an increase in capacity in the Holmes Run Trunk Sewer (HRTS) line, which is owned and operated by Alexandria Renew Enterprises (AlexRenew). Both the City and Fairfax County send wastewater flows to this sewer and share in the capacity of this sewer. The City has a sanitary sewer Service Agreement with Fairfax County that provides for peak flow capacities in this sewer, as well as the other AlexRenew interceptor sewers.

Increased capacity is required to support development occurring in the Eisenhower Valley, as well as future development and redevelopment in the West End. In 2008, the western portion of the trunk sewer from I-395 to Cameron Run was lined for additional capacity. Additional follow-up engineering and analysis has determined further improvements are needed to address long term capacity issues.

Engineering analysis between the City, Fairfax County, and AlexRenew was completed in FY 2017 which evaluated capacity issues in the HRTS, and provided a recommendation to enlarge an existing parallel, Fairfax County Holmes Run Sewer so that flows from the AlexRenew HRTS could be diverted to this sewer. Enlargement of the Fairfax County Holmes Run Sewer are proposed from the City/County line to Cameron Run, where the Fairfax sewer discharges in the the AlexRenew HRTS. A subsequent study was completed in FY 2019 that confirms construction of this sewer will have sufficient capacity to serve the proposed growth as anticipated in the Eisenhower West Small Area Plan. This study also included analysis of the Fairfax County Backlick Sewers, located in the City, and concluded that no infrastructure improvements would be required. The timing of the capacity upgrades is anticipated sometime after 2027.

The FY 2019 study also identified portions of the HRTS in the East Eisenhower Valley where the City will eventually exceed its peak flow capacities as stated in the Service Agreement. Development forecasting and hydraulic modeling show that the City will not exceed its Service Agreement capacities in this section of the HRTS until after 2035. Capacity improvements in this section of the HRTS have not yet been determined.

A total of \$9.0 million from the sanitary sewer fund has been budgeted in prior fiscal years for this project. The City will coordinate with AlexRenew and Fairfax County regarding implementation of projects, along with cost sharing to resolve remaining capacity issues on the Holmes Run Trunk Sewer. Depending on the outcome of these discussions, additional funding may be required in future years for both design and construction.

Completion of this project will improve the City's sanitary sewer infrastructure, which will help mitigate any potential sanitary sewer overflows during periods of wet weather. Additionally, the project will improve the City's readiness for accommodating quality economic growth.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Sanitary Sewer Master Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

RECONSTRUCTIONS & EXTENSIONS OF SANITARY SEWERS

DOCUMENT SUBSECTION: Sanitary Sewers
 MANAGING DEPARTMENT: Department of Transportation and Environmental Services

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 8: Environmental Sustainability

PROJECT CATEGORY: 1
 ESTIMATE USEFUL LIFE: 30+ Years

Reconstructions & Extensions of Sanitary Sewers													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total FY 2021 - FY 2030
Expenditure Budget	23,592,959	15,492,959	0	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	8,100,000
Financing Plan													
Cash Capital	2,146,105	2,146,105	0	0	0	0	0	0	0	0	0	0	0
GO Bond Interest Earnings	250,000	250,000	0	0	0	0	0	0	0	0	0	0	0
GO Bonds (Sanitary)	3,473,708	3,473,708	0	0	0	0	0	0	0	0	0	0	0
Prior Capital Funding	0	0	0	0	0	0	0	0	0	0	0	0	0
Private Capital Contributions	0	0	0	0	0	0	0	0	0	0	0	0	0
Sanitary Sewer Fund	17,723,146	9,623,146	0	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	8,100,000
Financing Plan Total	23,592,959	15,492,959	0	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	8,100,000
Additional Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

FY 2021 funding reduced by \$900,000, as prior year balances are sufficient to meet FY 2021 project needs

PROJECT DESCRIPTION & JUSTIFICATION

This project provides for the construction of new sewer mains, the replacement and rehabilitation of old lines as needed, repairs to City streets disturbed by sewer line repairs, and reconstruction and funds for the City's share of the cost of sewer extensions required for development.

Prior year balances, along with annual funding will be utilized to fund multiple projects in this request. No funding is needed in FY 2021 as prior year balances are sufficient to meet FY 2021 project needs. Some projects are in early planning stages, while others are currently indesign and construction. Obstacles to construction may include the moving of buried utility lines, such as power, water, and gas lines by the various utility owners that if not moved would interfere with the construction.

Projects currently under study/design and scheduled for construction in FY 2021 include:

- Beauregard Street Sanitary Sewer Repair
- Wheeler Avenue Sewer Lining
- Fillmore Street Sewer Replacement Project
- Franklin Street Sewer Replacement Project

Completion of these projects improves the City's sanitary sewer infrastructure while reducing the frequency of unplanned repairs due to deferred maintenance.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Sanitary Sewer Master Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.

SANITARY SEWER ASSET RENEWAL PROGRAM

DOCUMENT SUBSECTION: Sanitary Sewers
 MANAGING DEPARTMENT: Department of Transportation and Environmental Services

PROJECT LOCATION: Citywide
 REPORTING AREA: Citywide

PRIMARY STRATEGIC THEME: Theme 8: Environmental Sustainability

PROJECT CATEGORY: 2
 ESTIMATE USEFUL LIFE: 30+ Years

Sanitary Sewer Asset Renewal Program													
	A (B + M)	B	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	Through 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	Total FY 2021 - FY 2030
Expenditure Budget	32,750,000	0	1,250,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	32,750,000
Financing Plan													
Sanitary Sewer Fund	32,750,000	0	1,250,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	32,750,000
Financing Plan Total	32,750,000	0	1,250,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	32,750,000
Additional Operating Impact	0	0	0	0	0	0	0	0	0	0	0	0	0

CHANGES FROM PRIOR YEAR CIP

New project added to FY 2021 – FY 2030 CIP.

PROJECT DESCRIPTION & JUSTIFICATION

The City’s sanitary sewer system is comprised of over 240 miles of sewers, some of them dating back over 100 years. This program provides for annual inspection, condition assessment, and rehabilitation of sanitary sewers, City-owned lateral sewers, and sewer appurtenances as part of an ongoing sewer asset management initiative.

This program provides for closed circuit television (CCTV) inspection of all sewers and City-owned laterals and visual inspection of all sewer appurtenances (manholes and other structures). Inspections will be performed with a goal of inspecting 10 percent of the system each year. The condition of all sewers and sewer appurtenances will be assessed using industry standards of cataloguing inspections and recommendations will be made as to which sewers and sewer appurtenances are vulnerable to breakage or collapse. Sewers and sewer appurtenances that are vulnerable will be rehabilitated primarily using trenchless technologies, which are significantly less costly than dig-and-replace repairs. A total of \$32.8 million is being budgeted for this program over the ten-year budget period.

Implementation of this project improves the City’s sanitary sewer infrastructure and extends the infrastructure’s useful life by reducing the potential of pipe collapse and other emergency repairs. Additionally, this project will help reduce the amount of infiltration and inflow (I&I) into the sanitary sewer system, which helps reduce the frequency and magnitude of sanitary sewer overflows and sewer back-ups into homes and businesses.

EXTERNAL OR INTERNAL ADOPTED PLAN OR RECOMMENDATION

Sanitary Sewer Master Plan

ADDITIONAL OPERATING IMPACTS

No additional operating impacts identified at this time.