

Sewer Utility

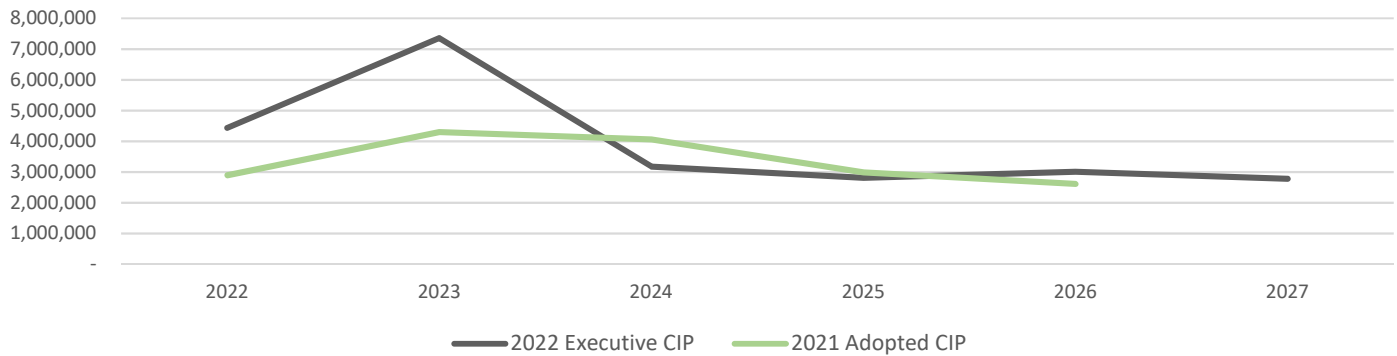
Capital Improvement Plan

Project Summary: Executive

	2022	2023	2024	2025	2026	2027
Citywide Pumping Stations-Emergency Power Station	58,000	58,000	58,000	58,000	60,000	63,000
Engineering Sycamore Cold Storage Structure	200,000	-	-	-	-	-
Lift Station Rehabilitation and Replacement	253,000	275,000	613,000	555,000	524,000	172,000
Sewer Access Improvements	130,000	130,000	130,000	135,000	142,000	149,000
Sewer Backwater Valve Reimbursement	100,000	40,000	40,000	40,000	40,000	40,000
Sewer Impact Fee Districts	1,200,000	1,500,000	-	-	-	-
Sewer Reconstruction	691,000	597,000	275,000	301,000	437,000	459,000
Trenchless Sewer Rehabilitation	1,760,000	1,760,000	1,760,000	1,724,000	1,810,000	1,900,000
Utility Materials Handling Site	50,000	3,000,000	300,000	-	-	-
	\$ 4,442,000	\$ 7,360,000	\$ 3,176,000	\$ 2,813,000	\$ 3,013,000	\$ 2,783,000

Changes from 2021 CIP

2022 Capital Improvement Plan
2021 Adopted vs. 2022 Executive



Major Changes

- Engineering Sycamore Cold Storage Structure
 - \$200k project added to CIP in 2022
- Lift Station Rehabilitation and Replacement
 - Program budget for 2022 increased by \$22k to reflect adjustments to schedule for lift station projects associated with Final Attachment of Town of Madison (no change to overall program budget from 2022-2026)
- Sewer Impact Fee Districts
 - Pumpkin Hollow project advanced from 2024 to 2022
 - Program budget increased by \$500k from 2022-2026
- Sewer Reconstruction
 - Program budget decreased by \$374k from 2022-2026
- Utility Materials Handling Site
 - \$3.4m project added to CIP in 2022-2024

Sewer Utility

Budget Overview

2022 CIP by Expenditure Type

	2022	2023	2024	2025	2026	2027
Building	200,000	-	-	-	-	-
Land	50,000	3,000,000	300,000	-	-	-
Land Improvements	130,000	130,000	130,000	135,000	142,000	149,000
Sanitary Sewer	4,062,000	4,230,000	2,746,000	2,678,000	2,871,000	2,634,000
Total	\$ 4,442,000	\$ 7,360,000	\$ 3,176,000	\$ 2,813,000	\$ 3,013,000	\$ 2,783,000

2022 CIP by Funding Source

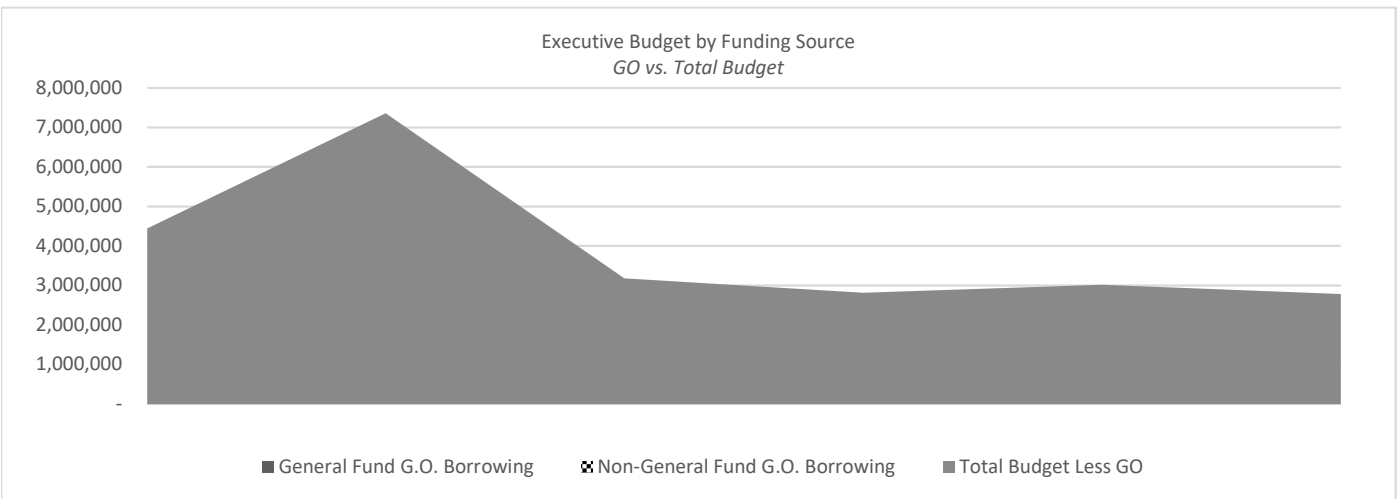
	2022	2023	2024	2025	2026	2027
Impact Fees	1,200,000	1,500,000	-	-	-	-
Reserves Applied	1,482,000	1,044,000	1,059,000	1,005,000	1,034,000	1,041,000
Revenue Bonds	1,733,000	4,811,000	2,112,000	1,803,000	1,974,000	1,737,000
Special Assessment	27,000	5,000	5,000	5,000	5,000	5,000
Total	\$ 4,442,000	\$ 7,360,000	\$ 3,176,000	\$ 2,813,000	\$ 3,013,000	\$ 2,783,000

Borrowing Summary

	2022	2023	2024	2025	2026	2027
Borrowing Schedule						
General Fund G.O. Borrowing	-	-	-	-	-	-
Non-General Fund G.O. Borrowing	-	-	-	-	-	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Annual Debt Service

General Fund G.O. Borrowing	-	-	-	-	-	-
Non-General Fund G.O. Borrowing	-	-	-	-	-	-



Sewer Utility

Project Overview

Project	Citywide Pumping Stations-Emergency Power Stationary G	Project #	11510
Citywide Element	Green and Resilient	Project Type	Program

Project Description

This program funds the installation of emergency power stationary generators at the City's pumping stations. The goal of the program is to ensure continuous sanitary service in the event of power loss. Funding in 2022 is for work at the Veith Lift Station.

Project Budget by Funding Source

	2022	2023	2024	2025	2026	2027
Reserves Applied	58,000	58,000	58,000	58,000	60,000	63,000
TOTAL	\$ 58,000	\$ 58,000	\$ 58,000	\$ 58,000	\$ 60,000	\$ 63,000

Project	Engineering Sycamore Cold Storage Structure	Project #	13688
Citywide Element	Green and Resilient	Project Type	Project

Project Description

This project will construct a fabric shelter at the Engineering clean fill site on Sycamore Rd. The structure will be used to store equipment and materials needed on the east side of Madison.

Project Budget by Funding Source

	2022	2023	2024	2025	2026	2027
Reserves Applied	200,000	-	-	-	-	-
TOTAL	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -

Project	Lift Station Rehabilitation and Replacement	Project #	10268
Citywide Element	Green and Resilient	Project Type	Program

Project Description

This program funds rehabilitation and replacement of the Sewer Utility's 29 wastewater lift stations and force mains. The goal of this program is to maintain system reliability and to reduce the number of back-ups or emergency incidents. The City will own and maintain 32 lift stations by October 2022 when the Town of Madison becomes part of the City of Madison. Projects to be constructed in 2022 include the replacement of the Regent Lift Station.

Project Budget by Funding Source

	2022	2023	2024	2025	2026	2027
Reserves Applied	253,000	175,000	253,000	195,000	164,000	172,000
Revenue Bonds	-	100,000	360,000	360,000	360,000	-
TOTAL	\$ 253,000	\$ 275,000	\$ 613,000	\$ 555,000	\$ 524,000	\$ 172,000

Project
Citywide Element

Sewer Access Improvements
Effective Government

Project # **10437**
Project Type **Program**

Project Description

This program is for sewer maintenance access roads, trails, paths and easement acquisitions where access to sanitary sewer access structures is not already well established. The goal of this program is to provide City Operations crews with safe access to maintain the City's sanitary sewer system.

Project Budget by Funding Source

	2022	2023	2024	2025	2026	2027
Reserves Applied	130,000	130,000	130,000	135,000	142,000	149,000
TOTAL	\$ 130,000	\$ 130,000	\$ 130,000	\$ 135,000	\$ 142,000	\$ 149,000

Project
Citywide Element

Sewer Backwater Valve Reimbursement
Green and Resilient

Project # **13568**
Project Type **Program**

Project Description

This program funds the reimbursement of property owners for a sewer backwater valve installation. Sewer backwater valves are installed on the sewer lateral either inside the home or on the property between the home and the City sewer main. With this program, the City reimburses property owners 75% of the installation costs up to \$1,500, provided that property owners go through the application process, pass the City plumber on-site pre-inspection, and receive 3 bids from contractors. The goal of the program is to provide additional protection to private property for unplanned sanitary sewer backups.

Project Budget by Funding Source

	2022	2023	2024	2025	2026	2027
Reserves Applied	100,000	40,000	40,000	40,000	40,000	40,000
TOTAL	\$ 100,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000

Project
Citywide Element

Sewer Impact Fee Districts
Effective Government

Project # **11678**
Project Type **Program**

Project Description

This program is for the extension of sanitary sewer service to developing areas of the City requiring sewer infrastructure installation. The program is funded entirely by Impact Fees, and review for planned projects is conducted annually as dictated by demand for development.

Project Budget by Funding Source

	2022	2023	2024	2025	2026	2027
Impact Fees	1,200,000	1,500,000	-	-	-	-
TOTAL	\$ 1,200,000	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -

Project
Citywide Element

Sewer Reconstruction
Green and Resilient

Project # **10267**
Project Type **Program**

Project Description

This program is for replacing old, problematic sewers throughout the City. The goal of this program is to alleviate emergency sewer repairs and back-ups by replacing the sewer infrastructure that is past its useful life. Coordination for the replacement of these sewers often gets completed with the Reconstruct Streets and Pavement Management programs within the Engineering-Major Streets budget. This program uses a case-by-case basis to evaluate the replacement of the sewers. Projects planned for 2022 include a sewer replacement project located in the Town of Blooming Grove and part of the Waunona Sanitary District that was taken over by the City of Madison in 2017.

Project Budget by Funding Source

	2022	2023	2024	2025	2026	2027
Reserves Applied	191,000	141,000	78,000	86,000	111,000	117,000
Revenue Bonds	473,000	451,000	192,000	210,000	321,000	337,000
Special Assessment	27,000	5,000	5,000	5,000	5,000	5,000
TOTAL	\$ 691,000	\$ 597,000	\$ 275,000	\$ 301,000	\$ 437,000	\$ 459,000

Project
Citywide Element

Trenchless Sewer Rehabilitation
Green and Resilient

Project # **10450**
Project Type **Program**

Project Description

This program funds the rehabilitation of failing sewers by lining the existing sewer mains using cameras and remote controlled tools. Some sewer mains are rehabilitated (or lined) to address inflow and infiltration problems. The goal of this program is to repair nine miles of sewer mains at selected locations based upon need; backyard sewer mains are prioritized.

Project Budget by Funding Source

	2022	2023	2024	2025	2026	2027
Reserves Applied	500,000	500,000	500,000	491,000	517,000	500,000
Revenue Bonds	1,260,000	1,260,000	1,260,000	1,233,000	1,293,000	1,400,000
TOTAL	\$ 1,760,000	\$ 1,760,000	\$ 1,760,000	\$ 1,724,000	\$ 1,810,000	\$ 1,900,000

Project
Citywide Element

Utility Materials Handling Site
Green and Resilient

Project # **13599**
Project Type **Project**

Project Description

This program is for creation of a new site for the Sanitary, Storm & Water Utilities, allowing the disposal of excess cut from repair operations and to allow for the dewatering of dredge sediments from pond maintenance operations. Once dewatered, the majority of material is expected to be moved to the Dane County Landfill to be used for daily cover and haul roads. The Utilities' current disposal site is running out fill area, and with the planned increase in dredging of stormwater retention facilities/ponds as required for compliance with our EPA WPDES discharge permit, the current drying bed, the Madison Metropolitan Sewerage District Drying Bed, is becoming too small. Sewer Utility will own the site and Stormwater Utility and Water Utility will annually pay for their usage of it.

Project Budget by Funding Source

	2022	2023	2024	2025	2026	2027
Reserves Applied	50,000	-	-	-	-	-
Revenue Bonds	-	3,000,000	300,000	-	-	-
TOTAL	\$ 50,000	\$ 3,000,000	\$ 300,000	\$ -	\$ -	\$ -

Sewer Utility

2022 Appropriation Schedule

2022 Appropriation

Executive Budget

	Request	GO Borrowing	Other	Total
Citywide Pumping Stations-Emergency Power Stationary Generators	58,000	-	58,000	58,000
Engineering Sycamore Cold Storage Structure	200,000	-	200,000	200,000
Lift Station Rehabilitation and Replacement	253,000	-	253,000	253,000
Sewer Access Improvements	130,000	-	130,000	130,000
Sewer Backwater Valve Reimbursement	40,000	-	100,000	100,000
Sewer Impact Fee Districts	1,200,000	-	1,200,000	1,200,000
Sewer Reconstruction	1,065,000	-	691,000	691,000
Trenchless Sewer Rehabilitation	1,760,000	-	1,760,000	1,760,000
Utility Materials Handling Site	50,000	-	50,000	50,000
Total 2022 Appropriation	\$ 4,756,000	\$ -	\$ 4,442,000	\$ 4,442,000