

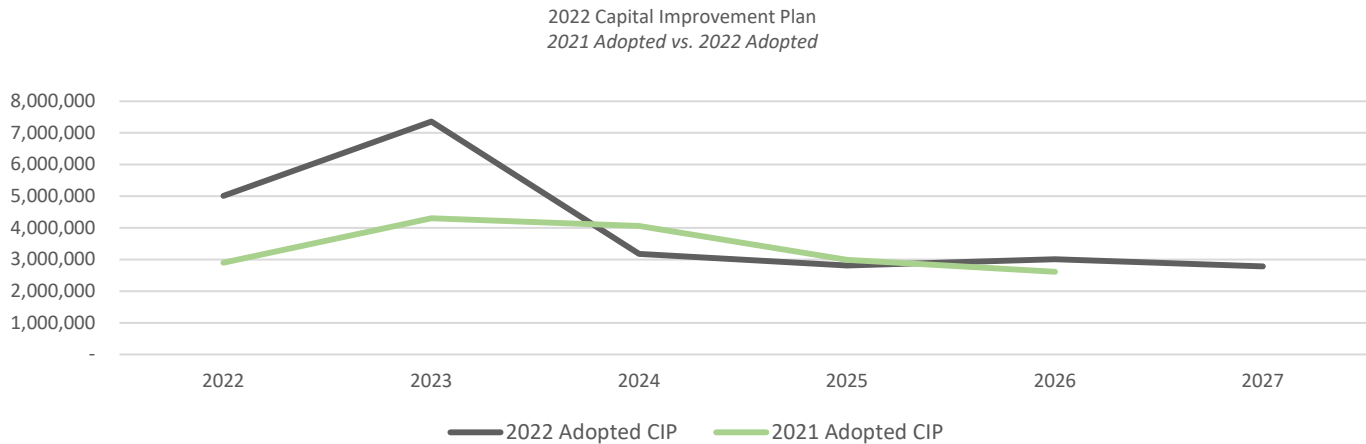
# Sewer Utility

## Capital Improvement Plan

### Project Summary: Adopted

	2022	2023	2024	2025	2026	2027
Citywide Pumping Stations-Emergency Power Stati	58,000	58,000	58,000	58,000	60,000	63,000
Engineering Sycamore Cold Storage Structure	200,000	-	-	-	-	-
Lift Station Rehabilitation and Replacement	818,000	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	-	-	-
	<b>\$ 5,007,000</b>	<b>\$ 7,360,000</b>	<b>\$ 3,176,000</b>	<b>\$ 2,813,000</b>	<b>\$ 3,013,000</b>	<b>\$ 2,783,000</b>

### Changes from 2021 CIP



### Major Changes

- Engineering Sycamore Cold Storage Structure
  - \$200k project added to CIP in 2022 to support equipment storage on the east side
- 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)
  - Common Council Amendment #14 increased program budget by \$565k to support Truax Lift Station Replacement
- Sewer Impact Fee Districts
  - Pumpkin Hollow project advanced from 2024 to 2022
  - Program budget increased by \$500k from 2022-2026 to reflect updated project estimates for the Felland Road and Pumpkin Hollow Impact Fee Districts
- Sewer Reconstruction
  - Program budget decreased by \$374k from 2022-2026 to reflect updated project estimates
- Utility Materials Handling Site
  - \$3.4m project added to CIP in 2022-2024 to allow the utilities to dispose of clean, excavated material from repair projects

# 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	4,627,000	4,230,000	2,746,000	2,678,000	2,871,000	2,634,000
<b>Total</b>	<b>\$ 5,007,000</b>	<b>\$ 7,360,000</b>	<b>\$ 3,176,000</b>	<b>\$ 2,813,000</b>	<b>\$ 3,013,000</b>	<b>\$ 2,783,000</b>

### 2022 CIP by Funding Source

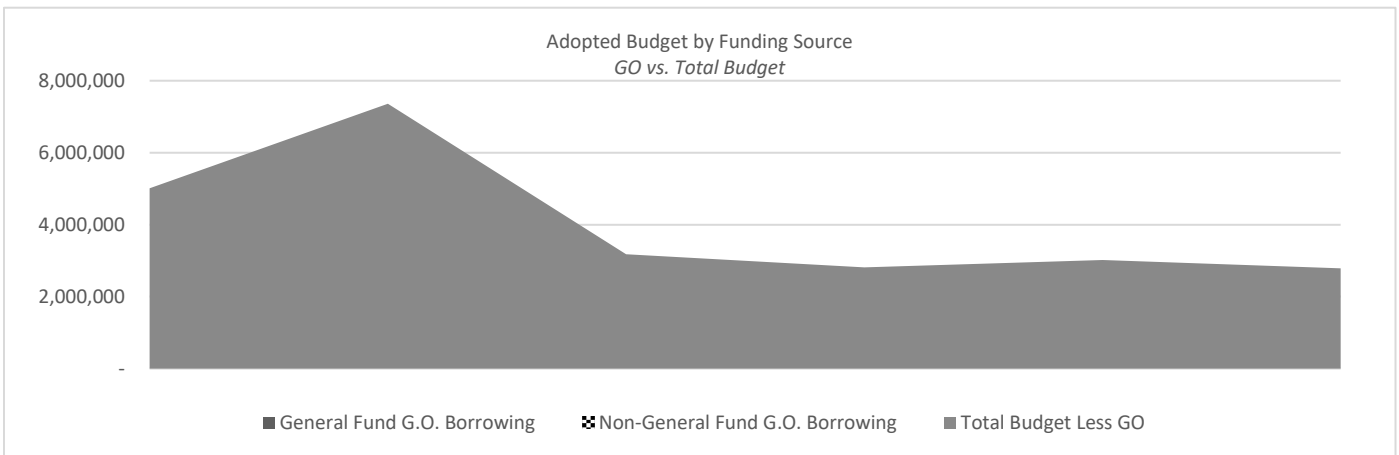
	2022	2023	2024	2025	2026	2027
Impact Fees	1,200,000	1,500,000	-	-	-	-
Reserves Applied	2,047,000	1,044,000	1,059,000	1,005,000	1,034,000	1,041,000
Revenue Bonds	1,733,000	4,811,000	2,112,000	1,803,000	1,974,000	1,737,000
Special Assessment	27,000	5,000	5,000	5,000	5,000	5,000
<b>Total</b>	<b>\$ 5,007,000</b>	<b>\$ 7,360,000</b>	<b>\$ 3,176,000</b>	<b>\$ 2,813,000</b>	<b>\$ 3,013,000</b>	<b>\$ 2,783,000</b>

### Borrowing Summary

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

### Annual Debt Service

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



# Sewer Utility

## Project Overview

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

### 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
<b>TOTAL</b>	<b>\$ 58,000</b>	<b>\$ 58,000</b>	<b>\$ 58,000</b>	<b>\$ 58,000</b>	<b>\$ 60,000</b>	<b>\$ 63,000</b>

Project	<b>Engineering Sycamore Cold Storage Structure</b>	Project #	<b>13668</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Project</b>

### Project Description

This project will construct a fabric shelter at the Engineering clean fill site on Sycamore Road. 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	-	-	-	-	-
<b>TOTAL</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Project	<b>Lift Station Rehabilitation and Replacement</b>	Project #	<b>10268</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

### 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. Common Council Amendment #14 transferred \$565k in funding from the Engineering - Major Streets Pavement Management project to this project to support the planned Truax Lift Station Replacement.

### Project Budget by Funding Source

	2022	2023	2024	2025	2026	2027
Reserves Applied	818,000	175,000	253,000	195,000	164,000	172,000
Revenue Bonds	-	100,000	360,000	360,000	360,000	-
<b>TOTAL</b>	<b>\$ 818,000</b>	<b>\$ 275,000</b>	<b>\$ 613,000</b>	<b>\$ 555,000</b>	<b>\$ 524,000</b>	<b>\$ 172,000</b>

Project	<b>Sewer Access Improvements</b>	Project #	<b>10437</b>
Citywide Element	<b>Effective Government</b>	Project Type	<b>Program</b>

*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
<b>TOTAL</b>	<b>\$ 130,000</b>	<b>\$ 130,000</b>	<b>\$ 130,000</b>	<b>\$ 135,000</b>	<b>\$ 142,000</b>	<b>\$ 149,000</b>

Project	<b>Sewer Backwater Valve Reimbursement</b>	Project #	<b>13568</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

*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
<b>TOTAL</b>	<b>\$ 100,000</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>

Project	<b>Sewer Impact Fee Districts</b>	Project #	<b>11678</b>
Citywide Element	<b>Effective Government</b>	Project Type	<b>Program</b>

*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	-	-	-	-
<b>TOTAL</b>	<b>\$ 1,200,000</b>	<b>\$ 1,500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

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
<b>TOTAL</b>	<b>\$ 691,000</b>	<b>\$ 597,000</b>	<b>\$ 275,000</b>	<b>\$ 301,000</b>	<b>\$ 437,000</b>	<b>\$ 459,000</b>

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
<b>TOTAL</b>	<b>\$ 1,760,000</b>	<b>\$ 1,760,000</b>	<b>\$ 1,760,000</b>	<b>\$ 1,724,000</b>	<b>\$ 1,810,000</b>	<b>\$ 1,900,000</b>

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	-	-	-
<b>TOTAL</b>	<b>\$ 50,000</b>	<b>\$ 3,000,000</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

# Sewer Utility

## 2022 Appropriation Schedule

### 2022 Appropriation

### Adopted Budget

	Request	Executive	GO Borrowing	Other	Total
Citywide Pumping Stations-Emergency Power Stationary Generators	58,000	58,000	-	58,000	58,000
Engineering Sycamore Cold Storage Structure	-	-	-	200,000	200,000
Lift Station Rehabilitation and Replacement	253,000	253,000	-	818,000	818,000
Sewer Access Improvements	130,000	130,000	-	130,000	130,000
Sewer Backwater Valve Reimbursement	40,000	100,000	-	100,000	100,000
Sewer Impact Fee Districts	1,200,000	1,200,000	-	1,200,000	1,200,000
Sewer Reconstruction	1,065,000	691,000	-	691,000	691,000
Trenchless Sewer Rehabilitation	1,760,000	1,760,000	-	1,760,000	1,760,000
Utility Materials Handling Site	50,000	50,000	-	50,000	50,000
<b>Total 2022 Appropriation</b>	<b>\$ 4,556,000</b>	<b>\$ 4,242,000</b>	<b>\$ -</b>	<b>\$ 5,007,000</b>	<b>\$ 5,007,000</b>