

## Water Utility

### Capital Improvement Plan (CIP) Overview

Budget Phase: Adopted

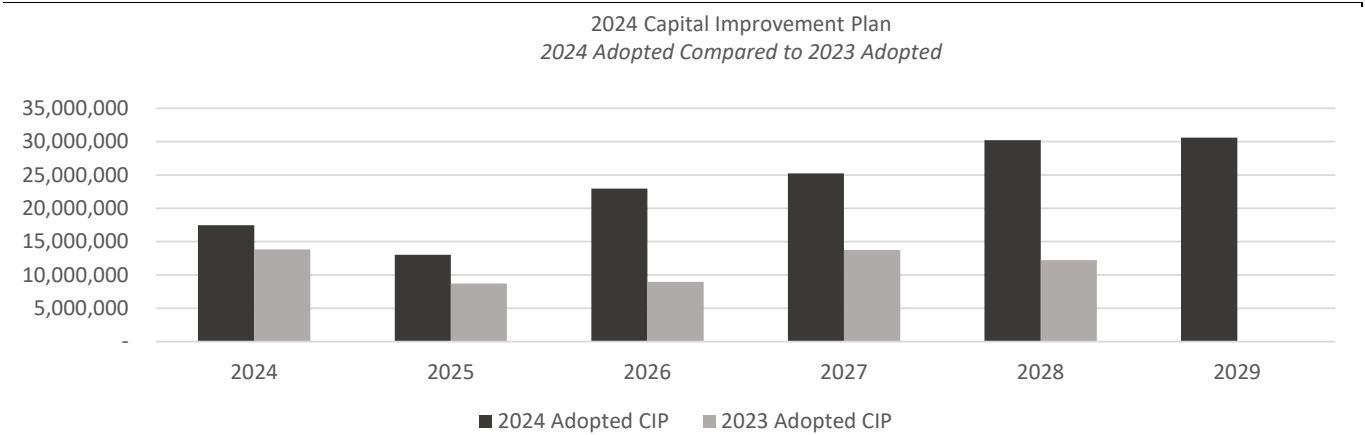
#### Summary Table

	2024	2025	2026	2027	2028	2029
Booster Pump Station #213						
Lakeview Reconstruction	500,000	-	-	-	-	2,100,000
Booster Pump Station 128						
Upgrade	-	-	-	1,100,000	-	-
Chlorinators & Florinators						
Program	40,000	40,000	50,000	50,000	60,000	60,000
High						
Point/Raymond/MidTown	10,000	-	-	-	1,145,000	-
John Nolen Drive	30,000	30,000	-	-	-	-
New Water Facility						
Planning	800,000	-	-	-	-	1,500,000
Park Street, South (Olin to						
RR)	-	-	509,000	-	-	-
Unit Well 12 Conversion to						
a Two Zone Well	-	1,000,000	4,000,000	-	-	-
Unit Well 15 - PFAS						
Treatment Facility	5,135,000	-	-	-	-	-
Unit Well Rehab Program	371,000	382,000	393,000	405,000	417,000	430,000
Water Hydrants Program	412,000	424,000	437,000	450,000	464,000	476,000
Water Mains - New	89,000	1,070,000	1,696,000	3,294,000	3,039,000	3,192,000
Water Mains Replacement	5,709,000	6,220,000	11,991,000	12,500,000	17,605,000	18,750,000
Water Meter and Fixed						
Network Program	539,000	552,000	566,000	580,000	595,000	610,000
Water Utility Facility						
Improvements	2,248,000	2,316,000	2,385,000	2,457,000	2,530,000	2,606,000
Water Utility Vehicles &						
Equipment	1,015,000	915,000	875,000	820,000	815,000	795,000
Water Valve Cut-In						
Program	64,000	66,000	68,000	70,000	72,000	74,000
Well 27 Iron & Manganese						
Mitigation	-	-	-	3,500,000	3,500,000	-
Wilson, E. & Doty, E.	501,000	-	-	-	-	-
	<b>\$ 17,463,000</b>	<b>\$ 13,015,000</b>	<b>\$ 22,970,000</b>	<b>\$ 25,226,000</b>	<b>\$ 30,242,000</b>	<b>\$ 30,593,000</b>

## Water Utility

### Capital Improvement Plan (CIP) Overview

Changes from 2023 Adopted CIP



### Description of Major Changes

The 2024 Adopted Capital Budget adds \$7.3 million of Water Utility-supported general obligation debt to fund several Water Utility Projects. This financing strategy will assist the Water Utility with its transition to utilizing the State of Wisconsin Safe Drinking Water Loan program on an on-going basis.

#### Booster Pump Station #213 Lakeview Reconstruction

- Project budget increased by \$374,000 (\$500,000 increase in Non-GF GO Borrowing in 2024, a \$2.2 million decrease in Revenue Bonds, and a \$2.1 million increase in State Sources). This reflects a 16.8% increase.
- Project was advanced to 2024 for machinery needs and the remainder delayed to 2029.

#### Booster Pump Station 128 Upgrade

- Projected advanced from 2028 to 2027 due to Water Utility's updated Master Plan.
- Project costs increased by \$1.0 million in State Sources in 2027. This reflects a 1089% increase.

#### Chlorinators & Florinators Program

- Program budget decreased by \$115,000 (32.4%). This reflects a \$40,000 increase in Non-GF GO Borrowing in 2024 and a \$155,000 decrease in Reserves Applied from 2025-2028 due to the number of units Water Utility plans on replacing.

#### High Point/Raymond/MidTown

- Project budget increased by \$10,000 and \$842,000 in Expense Depreciation in 2024 and 2028. This reflects a 281% increase.

#### John Nolen Drive

- New project. Adopted Budget includes \$30,000 in Expense Depreciation in 2024 and 2025.

#### New Water Facility Planning

- New project. Adopted Budget includes \$800,000 in Non-GF GO Borrowing in 2024 and \$1.5 million in State Sources in 2029.

#### Park Street, South (Olin to RR)

- Project was delayed from 2025 to 2026 due to timing of construction.
- Project budget increased by \$72,000 in Expense Depreciation in 2025. This reflects a 16.5% increase.

## Water Utility

### Capital Improvement Plan (CIP) Overview

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#### Description of Major Changes (Continued)

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##### Unit Well 12 Conversion to a Two Zone Well

- Project budget increased by \$5.0 million in State Sources in 2025 and 2026 and decreased by \$4.1 million in Revenue Bonds (net increase of \$942,000). This reflects a 23.2% increase.
- Project was advanced from 2026 to 2025 due to Water Utility's updated Master Plan.

##### Unit Well 15 PFAS Treatment Facility

- No major changes compared to 2023 Adopted CIP.

##### Unit Well Rehab Program

- Program budget increased by \$371,000 in Non-GF GO Borrowing in 2024, offset by a decrease of \$371,000 in Reserves Applied in 2024.

##### Water Hydrants Program

- Program budget increased by \$412,000 in Non-GF GO Borrowing in 2024, offset by a decrease of \$412,000 in Reserves Applied in 2024.

##### Water Mains - New

- Program budget increased by \$89,000 in Non-GF GO Borrowing and decreased by \$768,000 in Revenue Bonds in 2024 due to project timing.
- Program budget increased by \$7.9 million in Reserves Applied in and decreased by \$1.2 million in Revenue Bonds in 2025-2028. This reflects a 631% increase.
- Program budget increases are due to expected increases in projects over the course of the CIP.

##### Water Mains Replacement

- New program. Adopted Budget includes \$1.3 million in Non-GF GO Borrowing and \$4.5 million in Expense Depreciation in 2024.
- Program combines three prior 2023 Adopted CIP programs: Water Mains - Pavement Management, Water Mains - Pipe Lining, and Water Mains - Reconstruct Streets.

##### Water Meter and Fixed Network Program

- Program budget increased by \$539,000 in Non-GF GO Borrowing in 2024, offset by a decrease of \$539,000 in Reserves Applied in 2024.

##### Water Utility Facility Improvements

- Program budget increased by \$4.1 million (\$2.2 million in Non-GF GO Borrowing in 2024 and \$3.7 million in Reserves Applied in 2025-2028). This reflects a 52.3% increase.
- Program budget increased by \$2.2 million in Non-GF GO Borrowing in 2024, offset by a \$1.9 million decrease in Reserves Applied in 2024. This reflects a 21.1% net funding increase in 2024.

##### Water Utility Vehicles & Equipment

- Program budget increased by \$853,000 (\$1.0 million increase in Non-GF GO Borrowing and \$192,000 decrease in Reserves Applied) from 2024-2028. This reflects a 23.8% increase.
- Program budget increased by \$1.0 million in Non-GF GO Borrowing in 2024, offset by a decrease of \$700,000 in Reserves Applied in 2024.
- \$7,500 per year in Federal Sources assumes receipt of tax credits under the Inflation Reduction Act.
- Program increases are due to increased vehicle costs.

## Water Utility

### Capital Improvement Plan (CIP) Overview

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#### Description of Major Changes (Continued)

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##### Water Valve Cut-In Program

- Program budget increased by \$22,000-\$24,000 annually in Non-GF GO Borrowing in 2024 and Reserves Applied in 2025-2028. This reflects a 49.8% increase.
- Program budget increased by \$64,000 in Non-GF GO Borrowing in 2024, offset by a decrease of \$42,000 in Reserves Applied in 2024.

##### Well 27 Iron & Manganese Mitigation

- Project advanced from post 2029 to 2027-2028 due to Water Utility's updated Master Plan.
- Adopted Budget includes \$3.5 million in State Sources in 2027 and 2028.

##### Wilson, E. & Doty, E.

- Project budget increased by \$501,000 in Expense Depreciation, offset by a decrease of \$157,000 in Revenue Bonds in 2024. This reflects a 219.1% increase.
- Project budget increases are due to combining the Outer Capital Loop Doty Street Project with the Wilson Street Project.

## Water Utility

### Summary of Expenditures and Revenues

#### 2024 CIP by Expenditure Type

	2024	2025	2026	2027	2028	2029
Building	2,925,000	2,674,000	5,724,000	1,776,000	1,829,000	5,484,000
Machinery and Equipment	7,723,000	2,531,000	2,545,000	3,636,000	2,588,000	2,617,000
Water Network	6,815,000	7,810,000	14,701,000	19,814,000	25,825,000	22,492,000
	<b>\$ 17,463,000</b>	<b>\$ 13,015,000</b>	<b>\$ 22,970,000</b>	<b>\$ 25,226,000</b>	<b>\$ 30,242,000</b>	<b>\$ 30,593,000</b>

#### 2024 CIP by Funding Source

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	7,320,500	-	-	-	-	-
Expense Depreciation	5,000,000	5,000,000	10,000,000	10,000,000	15,000,000	15,000,000
Federal Sources	7,500	7,500	7,500	7,500	7,500	7,500
Reserves Applied	-	7,007,500	8,962,500	10,618,500	11,734,500	11,985,500
State Sources	5,135,000	1,000,000	4,000,000	4,600,000	3,500,000	3,600,000
	<b>\$ 17,463,000</b>	<b>\$ 13,015,000</b>	<b>\$ 22,970,000</b>	<b>\$ 25,226,000</b>	<b>\$ 30,242,000</b>	<b>\$ 30,593,000</b>

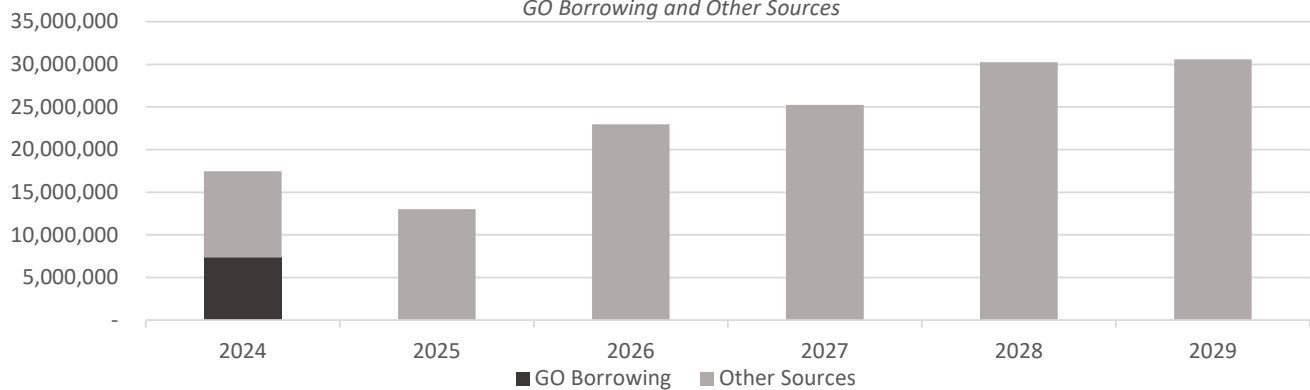
#### Borrowing Summary

	2024	2025	2026	2027	2028	2029
General Fund GO Borrowing	-	-	-	-	-	-
Non-General Fund GO Borrowing	7,320,500	-	-	-	-	-
	<b>\$ 7,320,500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

#### Annual Debt Service

	2024	2025	2026	2027	2028	2029
General Fund GO Borrowing	-	-	-	-	-	-
Non-General Fund GO Borrowing	951,665	-	-	-	-	-
	<b>\$ 951,665</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Adopted Budget by Funding Source  
GO Borrowing and Other Sources



## Water Utility

### Carryforward General Obligation Borrowing

	Unused Appropriation Authority	Reauthorized GO Borrowing
11984 ATWOOD AVE RECONSTRUCTION	122,321	-
13838 BLAIR ST	58,787	-
17607 BUS RAPID TRANSIT PROGRAM	164,461	-
12386 CHLORINATORS & FLORINATORS PROGRAM	48,170	-
11574 COTTAGE GROVE ROAD	11,869	-
13013 CTH AB INTERCHANGE	45,391	-
13835 CTH M	192,586	-
11130 GAMMON ROAD, SOUTH	99,531	-
12454 HIGH POINT RD AND RAYMOND RD	25,000	-
10245 MCKEE RD (CTH PD) IMPROVEMENTS	68,790	-
10540 PAVEMENT MANAGEMENT	1,960,235	-
10284 PLEASANT VIEW ROAD	71,322	-
14004 PRESSURE ZONE RESILIENCY	532,534	-
10226 RECONSTRUCTION STREETS	1,532,112	-
11133 S PARK ST (OLIN TO RR)	21,000	-
12503 STREETS YARD IMPROVEMENTS	500,000	-
10944 UNIT WELL NO. 8 RECONSTRUCTION	25,000	-
11168 UNIVERSITY AVE (SHOREWOOD-UNIV BAY)	98,362	-
10448 UW19 IRON & MANGANESE FILTER	8,157,386	-
14205 UW27 IRON & MANGANESE FILTER	63,000	-
11894 WATER MAIN REPLACE PAVEMENT MGMT	1,113,000	-
11892 WATER MAIN REPLACE PIPE LINING	576,850	-
11893 WATER MAIN REPLACEMENT	174,000	-
12507 WATER MAINS NEW	22,800	-
10440 WATER UTILITY FACILITY IMPROVEMENTS	2,100,484	-
12385 WATER UTILITY HYDRANTS PROGRAM	242,947	-
12340 WATER UTILITY METER PROGRAM	370,651	-
12341 WATER UTILITY UW REHAB PROGRAM	511,094	-
12339 WATER UTILITY VEHICLE PROGRAM	422,108	-
12387 WATER VALVE CUT-IN PROGRAM	27,767	-
11900 WELL 14 MITIGATION	979,631	-
17604 WELL 28 IRON AND MANGANESE FILTER	63,000	-
17603 WELL 30 IRON AND MANGANESE FILTER	63,000	-
11459 WILSON ST (MLK - S HAMILTON)	23,437	-
	20,488,626	-

## Water Utility

### Project & Program Details

Project **Booster Pump Station #213 Lakeview Reconstruction** Project # **12441**  
 Citywide Element **Green and Resilient** Project Type **Project**

**Project Description**

This project is for reconstructing the Lake View Booster Pumping Station. The goal of the project is to meet fire fighting requirements and expansion in Zone 5. A generator will also be added to ensure reliability of the pumping station in the event of a power outage. Pump capacity will be increased to 1200 gallons per minute.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	500,000	-	-	-	-	-
State Sources	-	-	-	-	-	2,100,000
<b>Total</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,100,000</b>

Project **Booster Pump Station 128 Upgrade** Project # **12442**  
 Citywide Element **Green and Resilient** Project Type **Project**

**Project Description**

Pressure Zone 11 on the far west side is experiencing development pressure and growth. The Blackhawk elevated tank was completed and put into service in December 2018 and will support projected growth in the area. Pump station capacity at the Blackhawk Booster Pumping Station is a limiting factor and the pumps and electrical systems require upgrade. This proposal will increase firm pumping capacity from 1,000 gpm to 1,400 gpm to 2,100 gpm. Design and construction is scheduled in 2027.

	2024	2025	2026	2027	2028	2029
State Sources	-	-	-	1,100,000	-	-
<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,100,000</b>	<b>\$ -</b>	<b>\$ -</b>

Project **Chlorinators & Florinators Program** Project # **12386**  
 Citywide Element **Green and Resilient** Project Type **Program**

**Project Description**

This program rebuilds and replaces chlorinator and florinator equipment on a 10 year replacement cycle. The goal of this program is to reduce failures and service interruptions for safe and reliable water. Progress will be measured by the frequency of equipment failure.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	40,000	-	-	-	-	-
Reserves Applied	-	40,000	50,000	50,000	60,000	60,000
<b>Total</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 60,000</b>	<b>\$ 60,000</b>

## Water Utility

### Project & Program Details

Project	<b>High Point/Raymond/MidTown</b>	Project #	<b>12454</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Project</b>

#### Project Description

This project funds the connection of water mains in the Marty Road area. When the project to complete the street and path network (as outlined in the High Point - Raymond Neighborhood Development Plan) goes forward, water infrastructure will be built to connect piping between Pressure Zones 8 and 9. This connection will increase operational resiliency in an area that is currently more isolated within the system than desirable.

	2024	2025	2026	2027	2028	2029
Expense Depreciation	10,000	-	-	-	1,145,000	-
<b>Total</b>	<b>\$ 10,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,145,000</b>	<b>\$ -</b>

Project	<b>John Nolen Drive</b>	Project #	<b>11860</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Project</b>

#### Project Description

This project is for replacing the causeway bridges on John Nolen Drive between North Shore Drive and Olin Avenue. The goal of this project is to improve the transportation safety for this corridor for pedestrians, bicycles, and motor vehicles. The project's scope includes replacing the six bridges on the John Nolen Drive causeway, which are approaching the end of their service life. The bike path is also planned to be reconstructed to create additional space for bike and pedestrian traffic, particularly where it is narrow over waterways. Pavement is planned for replacement in the corridor. Design is scheduled through 2024 and construction is scheduled for 2025-2026. Madison Water Utility will be making minor relocations and valve/hydrant improvements in support of the overall project and is not anticipating participating in the state/major construction contract.

	2024	2025	2026	2027	2028	2029
Expense Depreciation	30,000	30,000	-	-	-	-
<b>Total</b>	<b>\$ 30,000</b>	<b>\$ 30,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Project	<b>New Water Facility Planning</b>	Project #	<b>14697</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Project</b>

#### Project Description

This project funds investigation into the ways and means of addressing the City's future water supply shortages to combat significant development pressure within parts of the City over the next 20 years. Alternatives will include but will not be limited to: a new well; pumping water from other areas of the system; and optimization of operation. Planning and investigation will commence in 2024, with the project completion targeted by 2032.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	800,000	-	-	-	-	-
State Sources	-	-	-	-	-	1,500,000
<b>Total</b>	<b>\$ 800,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,500,000</b>



## Water Utility

### Project & Program Details

Project **Park Street, South (Olin to RR)** Project # **11133**  
 Citywide Element **Green and Resilient** Project Type **Project**

**Project Description**

This project proposes to connect a system hydraulic gap located between Wingra Creek and the railroad crossing to improve system hydraulics in close proximity to Unit Well 18 in addition to minor system improvements. Design occurred in 2023 and construction is planned for 2026.

	2024	2025	2026	2027	2028	2029
Expense Depreciation	-	-	509,000	-	-	-
<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 509,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Project **Unit Well 12 Conversion to a Two Zone Well** Project # **10452**  
 Citywide Element **Green and Resilient** Project Type **Project**

**Project Description**

This project is for rebuilding and expanding Well #12 located on South Whitney Way. The goal of the project is to provide water supply capacity to five existing pressure zones, which represents the majority of the City's west side. The system flexibility provided by this project will improve service reliability and maximize water supply. Funding in 2025 is for design and the start of construction.

	2024	2025	2026	2027	2028	2029
State Sources	-	1,000,000	4,000,000	-	-	-
<b>Total</b>	<b>\$ -</b>	<b>\$ 1,000,000</b>	<b>\$ 4,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Project **Unit Well 15 - PFAS Treatment Facility** Project # **14092**  
 Citywide Element **Green and Resilient** Project Type **Project**

**Project Description**

The contaminant, PFAS, has been detected at Well 15. While PFAS is not regulated at this time, there is significant concern about potential health impacts. To prepare for a change in the PFAS regulatory requirements, this project will investigate and study potential treatment options. A study that was performed on Well 15 gave guidance on how to proceed with improving the PFAS levels at Well 15. Funding in 2024 is for construction and installation of equipment in Well 15.

	2024	2025	2026	2027	2028	2029
State Sources	5,135,000	-	-	-	-	-
<b>Total</b>	<b>\$ 5,135,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

## Water Utility

### Project & Program Details

Project	<b>Unit Well Rehab Program</b>	Project #	<b>12341</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

#### Project Description

This program is for the 10 year unit well upgrade projects as recommended by the Wisconsin Department of Natural Resources. The goal of this program is to ensure that all unit wells are functioning at an efficient level and to reduce annual maintenance costs. Progress will be measured by reduction of maintenance costs, fewer unit well failures, and compliance with the 10 year schedule.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	371,000	-	-	-	-	-
Reserves Applied	-	382,000	393,000	405,000	417,000	430,000
<b>Total</b>	<b>\$ 371,000</b>	<b>\$ 382,000</b>	<b>\$ 393,000</b>	<b>\$ 405,000</b>	<b>\$ 417,000</b>	<b>\$ 430,000</b>

Project	<b>Water Hydrants Program</b>	Project #	<b>12385</b>
Citywide Element	<b>Neighborhoods and Housing</b>	Project Type	<b>Program</b>

#### Project Description

This program is for the annual raising, replacing and moving of water hydrants. The goal of this program is to maintain reliable service for fire suppression.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	412,000	-	-	-	-	-
Reserves Applied	-	424,000	437,000	450,000	464,000	476,000
<b>Total</b>	<b>\$ 412,000</b>	<b>\$ 424,000</b>	<b>\$ 437,000</b>	<b>\$ 450,000</b>	<b>\$ 464,000</b>	<b>\$ 476,000</b>

Project	<b>Water Mains - New</b>	Project #	<b>12507</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

#### Project Description

This program is for installing new water mains throughout the City. The goal of the program is to strengthen and expand the existing distribution system, improve water pressure, improve fire protection, allow transfer of water between pressure zones, and to serve the growing areas of the City. Newly installed mains include hydraulic improvements consistent with the Water Utility Master Plan.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	89,000	-	-	-	-	-
Reserves Applied	-	1,070,000	1,696,000	3,294,000	3,039,000	3,192,000
<b>Total</b>	<b>\$ 89,000</b>	<b>\$ 1,070,000</b>	<b>\$ 1,696,000</b>	<b>\$ 3,294,000</b>	<b>\$ 3,039,000</b>	<b>\$ 3,192,000</b>

## Water Utility

### Project & Program Details

Project	<b>Water Mains Replacement</b>	Project #	<b>11893</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

#### Project Description

This program is for replacing existing water mains in conjunction with the reconstruction of roads as part of the City's Engineering- Major Streets Reconstruct Streets and Pavement Management programs. The 2024 budget creates a new program for all the water main replacements. In previous budgets there were three programs that covered this work, which are being consolidated into one program in 2024: Water Mains - Pavement Management, Water Mains - Pipe Lining, and Water Mains Reconstruct Streets. The goal of the program is to update the water infrastructure, diminish the risk of pipe failure, and extend the useful life of the pipes at a lower cost than replacing the pipe. The pipe lining portion of this program is measured by the miles of pipe rehabilitated using the lining method. The program aligns with the Water Utility's goal to replace or rehabilitate over 400 miles of aging pipe within the City over a 40-year period to renew and maintain the system.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	1,250,000	-	-	-	-	-
Expense Depreciation	4,459,000	4,970,000	9,491,000	10,000,000	13,855,000	15,000,000
Reserves Applied	-	1,250,000	2,500,000	2,500,000	3,750,000	3,750,000
<b>Total</b>	<b>\$ 5,709,000</b>	<b>\$ 6,220,000</b>	<b>\$ 11,991,000</b>	<b>\$ 12,500,000</b>	<b>\$ 17,605,000</b>	<b>\$ 18,750,000</b>

Project	<b>Water Meter and Fixed Network Program</b>	Project #	<b>12340</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

#### Project Description

This program is for water meter and fixed network advanced metering infrastructure (AMI) improvements. The goal of the program is to provide accurate consumption data for billing purposes. Progress will be measured by comparing the meter accuracy testing results against the Public Service Commission of Wisconsin rules and regulations as well as monitoring the total non-revenue water volume.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	539,000	-	-	-	-	-
Reserves Applied	-	552,000	566,000	580,000	595,000	610,000
<b>Total</b>	<b>\$ 539,000</b>	<b>\$ 552,000</b>	<b>\$ 566,000</b>	<b>\$ 580,000</b>	<b>\$ 595,000</b>	<b>\$ 610,000</b>

## Water Utility

### Project & Program Details

Project	<b>Water Utility Facility Improvements</b>	Project #	<b>10440</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

#### Project Description

This program is for repairing and upgrading Water Utility facilities. The goal of the program is to maintain the facilities for reliable service and reducing emergency repairs. Progress is measured by tracking the number of emergency calls, facility outages, and accidents each year. Funding in 2024 is for fiber optic system installations and upgrades, control and instrumentation replacements and upgrades, cybersecurity upgrades, upgrading GPS system, and other miscellaneous upgrades.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	2,248,000	-	-	-	-	-
Reserves Applied	-	2,316,000	2,385,000	2,457,000	2,530,000	2,606,000
<b>Total</b>	<b>\$ 2,248,000</b>	<b>\$ 2,316,000</b>	<b>\$ 2,385,000</b>	<b>\$ 2,457,000</b>	<b>\$ 2,530,000</b>	<b>\$ 2,606,000</b>

Project	<b>Water Utility Vehicles &amp; Equipment</b>	Project #	<b>12339</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

#### Project Description

This program is for the annual vehicle and equipment replacements and additions. Replacement schedules are based on age and mileage of the vehicles and equipment. The goal of this program is to provide reliable vehicles and equipment for Water Utility's operations. Progress will be measured by the frequency of vehicle breakdowns and actual useful life obtained. In 2024, funds will be used for three utilimasters, two tri-axel dump trucks, a GM vehicle and other miscellaneous equipment.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	1,007,500	-	-	-	-	-
Federal Sources	7,500	7,500	7,500	7,500	7,500	7,500
Reserves Applied	-	907,500	867,500	812,500	807,500	787,500
<b>Total</b>	<b>\$ 1,015,000</b>	<b>\$ 915,000</b>	<b>\$ 875,000</b>	<b>\$ 820,000</b>	<b>\$ 815,000</b>	<b>\$ 795,000</b>

Project	<b>Water Valve Cut-In Program</b>	Project #	<b>12387</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Program</b>

#### Project Description

This program is for installing new valve cut-ins to the existing water infrastructure. The goal of this program is to eliminate areas of the city where water service is negatively impacted during water system maintenance and repair. Success is measured by a reduction in complaints from customers for impacted service.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	64,000	-	-	-	-	-
Reserves Applied	-	66,000	68,000	70,000	72,000	74,000
<b>Total</b>	<b>\$ 64,000</b>	<b>\$ 66,000</b>	<b>\$ 68,000</b>	<b>\$ 70,000</b>	<b>\$ 72,000</b>	<b>\$ 74,000</b>

## Water Utility

### Project & Program Details

Project	<b>Well 27 Iron &amp; Manganese Mitigation</b>	Project #	<b>14025</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Project</b>

#### Project Description

This project will address elevated levels of iron and manganese at Well 27 which exceed Water Utility Board Standards. In addition, radium levels periodically exceed the EPA Safe Drinking Water limit. The goal of the project is to identify strata causing the elevated contaminant levels and determine whether well reconstruction is a viable alternative to wellhead treatment.

	2024	2025	2026	2027	2028	2029
State Sources	-	-	-	3,500,000	3,500,000	-
<b>Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,500,000</b>	<b>\$ 3,500,000</b>	<b>\$ -</b>

Project	<b>Wilson, E. &amp; Doty, E.</b>	Project #	<b>11543</b>
Citywide Element	<b>Green and Resilient</b>	Project Type	<b>Project</b>

#### Project Description

This project is for minor valve/hydrant improvements and the abandonment and transfer of service connections from an existing 6-IN water main to an existing parallel 16-IN water main. The proposed 2024 improvements include the outer capital loop (Doty St) project that was previously budgeted as a separate project in the Engineering - Major Streets budget.

	2024	2025	2026	2027	2028	2029
Expense Depreciation	501,000	-	-	-	-	-
<b>Total</b>	<b>\$ 501,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

## Water Utility

### 2024 Appropriation Schedule

2024 Appropriation

Adopted Budget

	Request	Executive	GO Borrowing	Other	Total
Booster Pump Station #213					
Lakeview Reconstruction	500,000	500,000	500,000	-	500,000
Chlorinators & Florinators Program	40,000	40,000	40,000	-	40,000
High Point/Raymond/MidTown	10,000	10,000	-	10,000	10,000
John Nolen Drive	30,000	30,000	-	30,000	30,000
New Water Facility Planning	800,000	800,000	800,000	-	800,000
Unit Well 15 - PFAS Treatment					
Facility	5,135,000	5,135,000	-	5,135,000	5,135,000
Unit Well Rehab Program	371,000	371,000	371,000	-	371,000
Water Hydrants Program	412,000	412,000	412,000	-	412,000
Water Mains - New	89,000	89,000	89,000	-	89,000
Water Mains Replacement	5,709,000	5,709,000	1,250,000	4,459,000	5,709,000
Water Meter and Fixed Network					
Program	539,000	539,000	539,000	-	539,000
Water Utility Facility Improvements	2,248,000	2,248,000	2,248,000	-	2,248,000
Water Utility Vehicles & Equipment	1,015,000	1,015,000	1,007,500	7,500	1,015,000
Water Valve Cut-In Program	64,000	64,000	64,000	-	64,000
Wilson, E. & Doty, E.	501,000	501,000	-	501,000	501,000
	<b>\$ 17,463,000</b>	<b>\$ 17,463,000</b>	<b>\$ 7,320,500</b>	<b>\$ 10,142,500</b>	<b>\$ 17,463,000</b>