

PUBLIC WORKS WATER CAPITAL IMPROVEMENT PLAN OVERVIEW KEVIN KOTHE, P.E., DIRECTOR OF PUBLIC WORKS COMMITTEE OF THE WHOLE - JUNE 19, 2023





- Water System History and Overview
- Capital Improvement Planning Process
- Capital Improvement Plan Components
- Rate Study
- Next Steps and Tentative Timeframes





Water System History and Overview



1 Water Treatment Plant

1 Pumping Pool (Mackinaw River)

2 Reservoirs (Lake Bloomington and Evergreen Lake)

- •22,900 acre-feet
- •1,560 surface acres
- •109 miles of watershed

5 Pump stations

6 Storage tanks

•21.4 million gallons of finished water storage

450 miles of Watermains

4,785 Fire hydrants

34,098 Meters

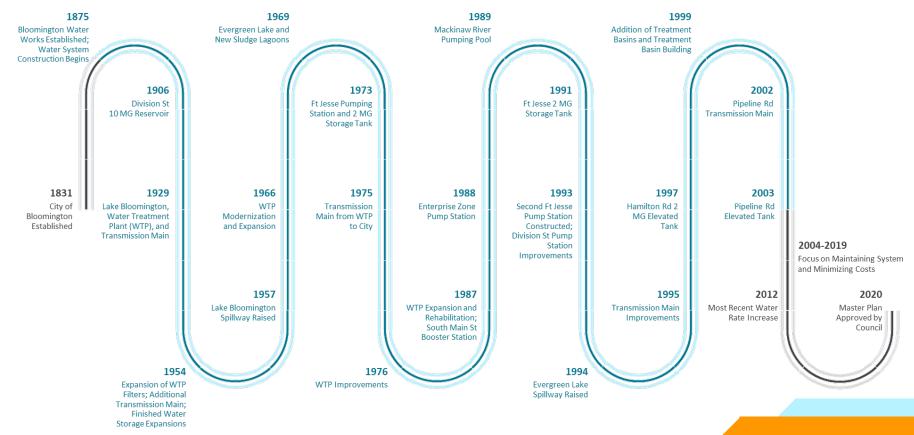
Serving Approximately 86,000 McLean County Residents

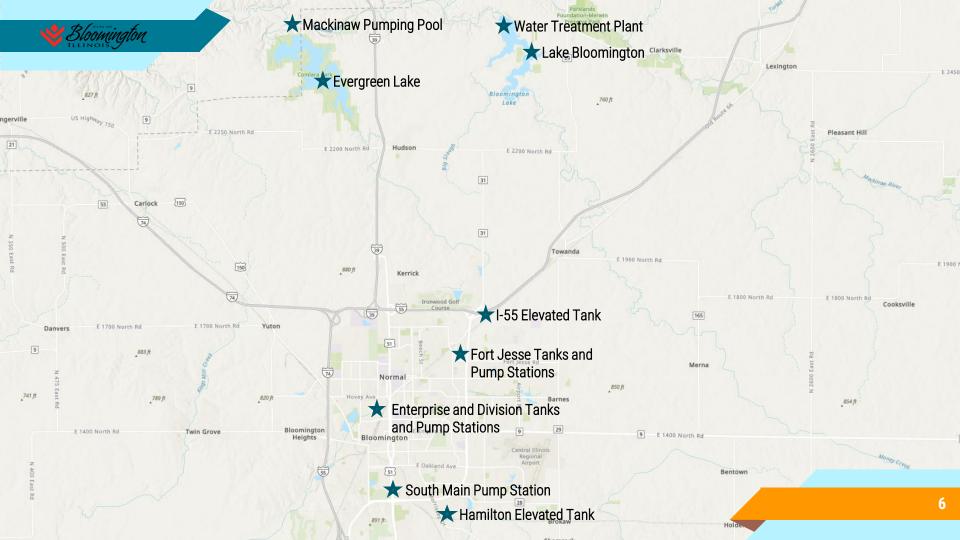
•77,610 - City of Bloomington

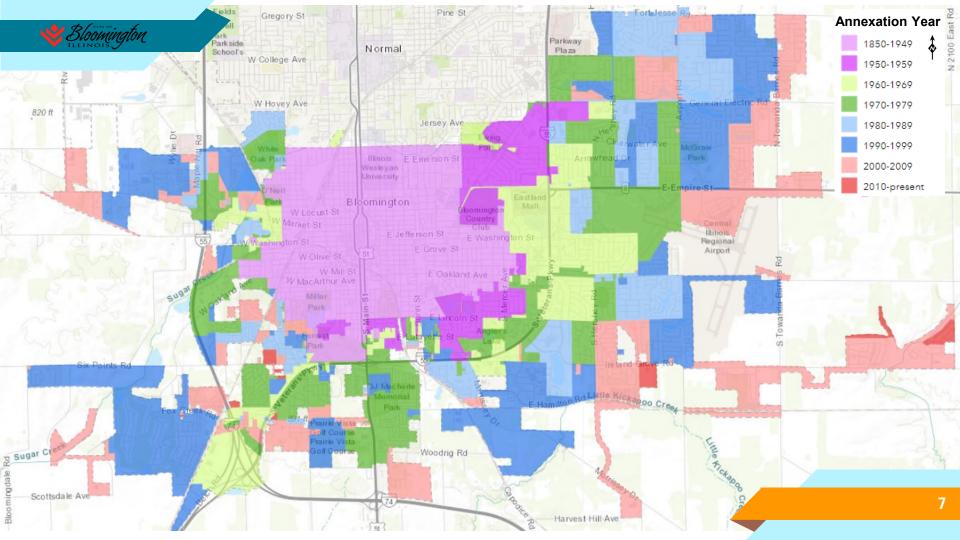
•8,578 – Multiple smaller water system supply connections

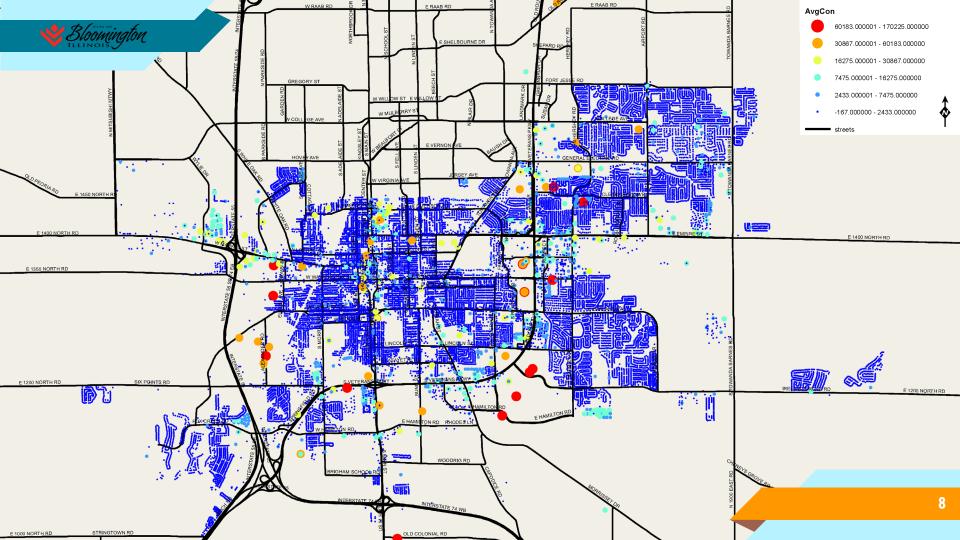
11 million gallons Average Daily Pumpage (May 2022 to March 2023)









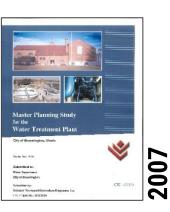


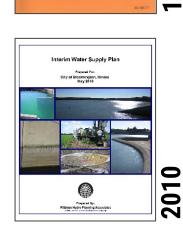


Capital Improvement Planning Process



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City of I	Bloomington, Illinois	
603 West D	Skision Street, Bloomington, IL	
*3	loonington warous	
	of Bloomington r Distribution System Planning Study	_
Purchas	e Order: 20210342-00	
Novemi	ber 30, 2021 – Draft	
	DONOHUE	
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	Water Feeds Au	oessaarse Study		
	Novemb	rr 1993		









- Over \$9 million (68 items) from Master Plan have been completed or are in process.
 - WTP Buildings and Grounds Improvements
 - Pump Stations Buildings and Grounds Improvements
 - WTP Settled Water Piping Cleaning and Replacement
 - Chlorine Gas Scrubber Improvements
 - Ammonia Feed Improvements
 - Hamilton Road Elevated Tank Repainting
 - Fort Jesse Ground Storage Tanks Repainting
 - WTP Flow Meters Replacement
 - Pump Stations Electrical Improvements
 - SCADA Upgrades
 - Various Maintenance Items





Capital Improvement Plan Components





Systemwide Potable Water Distribution Improvements

Lead Service Line Replacement Program

Watermain and Meter Modernization

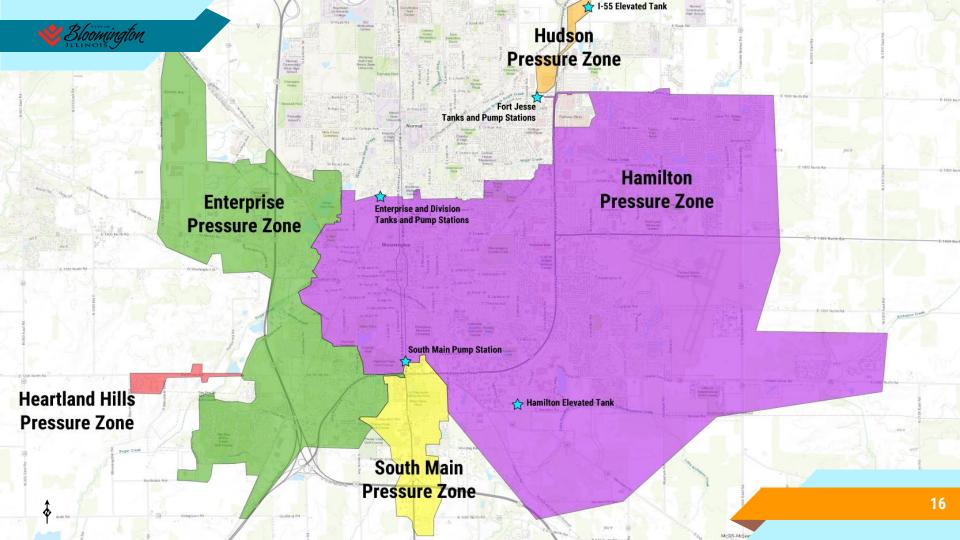
Water Treatment Plant Projects Lake Maintenance and Watershed Projects





SYSTEMWIDE IMPROVEMENTS PROJECT TIMELINE

Division and Enterprise Pump Station Planning Study approved by Council	Division and Enterprise Pump Station Planning Study First Amendment to study location alternatives approved by Council	Systemwide Potable Water Distribution Improvements Preliminary Design contract approved by Council	Anticipated future design contract to be submitted to Council for approval
JAN 2020 JULY 2	.020 JAN 2021 JULY 2	2021 APRIL 2022 APRIL 2022	2 TO CURRENT SUMMER 2023
Water Infrastruc Master P approved Council	ture Pump St an Study co by base alt build Ha	tation Planning work for the	er Distribution







CAPITAL IMPROVEMENT PLAN COMPONENTS: LEAD SERVICE LINE REPLACEMENT PROGRAM

- Replacing disturbed lead service lines
- Providing customer notices
- Evaluating and planning
- Assembling service line inventory
- Continuing water quality testing
- Developing additional tracking mechanisms

INVENTORY AND REPLACEMENT PLAN TIMELINE

April 15, 2022 - Initial Material Inventory Completed

April 15, 2023 - Updated Material Inventory Submitted to Illinois Environmental Protection Agency (IEPA)

April 15, 2024 - Final Material Inventory and Initial Replacement Plan Submitted to IEPA*

April 15, 2025 - April 15, 2027 - Updated Replacement Plan Submitted to IEPA by April 15 Annually

April 15, 2027 - Final Replacement Plan Submitted to IEPA

*Community water suppliers may apply for an extension for submission of the final material inventory to IEPA, but must do so no later than January 15, 2024, to be considered.





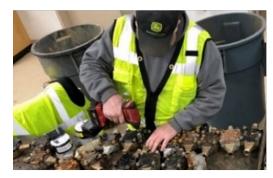


CAPITAL IMPROVEMENT PLAN COMPONENTS: WATERMAIN AND METER MODERNIZATION















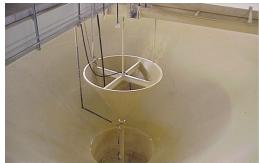


CAPITAL IMPROVEMENT PLAN COMPONENTS: WATER TREATMENT PLANT PROJECTS

















CAPITAL IMPROVEMENT PLAN COMPONENTS: LAKE MAINTENANCE AND WATERSHED PROJECTS





Rate Study

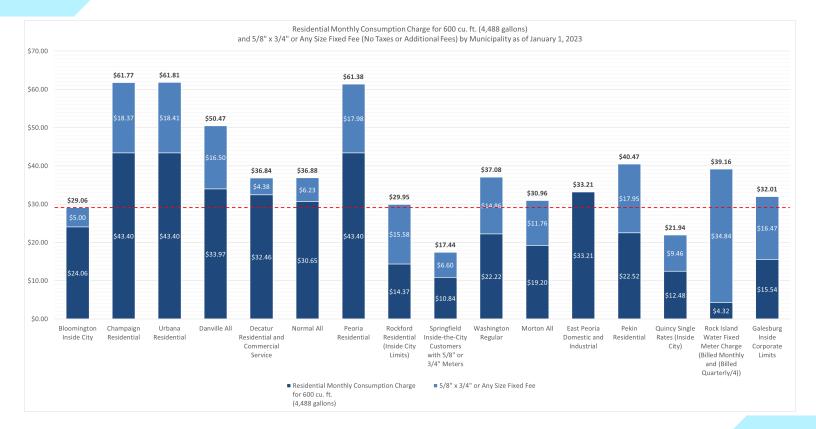




Goals

- Sustainably Fund Operations and Capital Improvements
- Improve Equity and Affordability
- Information Opportunities
 - Public Outreach Committee
 - Council Discussions and Presentations
 - Public Meetings
 - Project Microsite and Press Releases







Monthly Water Charge Data from Survey of 115 Central Illinois Communities by Berns, Clancy, & Associates

140	
120	
100	
80	
60	
40	
20 0	
	Forsyth Gibson City Forrest Fithian Paxton Rankin Rankin Rankin Rankin Rankin Rankin Rankin Gilman White Heath Monticello Georgetown Thawville Chanasboro Blue Mound Bement Uresodal Normal Decatur Roberts Chanasboro Blue Mound Bement Ivesodal Normal Decatur Roberts Chanasboro Roberts Chanasboro Blue Mound Bement Ivesodal Downs Chanasboro Nahomet Chanasboro Nahomet Chanasboro Sadorus Sadorus Sadorus Cresent City Sadorus Cresent City Sadorus Cresent City Sadorus Cresent City Sadorus Cresent City Sadorus Cresent City Sadorus Danville Hindsboro Mt Zion Dewey Dewey



Next Steps and Tentative Timeframes



NEXT STEPS AND TENTATIVE TIMEFRAMES

Summer 2023 Design contract to continue Systemwide Potable Water Distribution Improvements

Summer 2023

Design contract for inventory and program development for Lead Service Line Replacement Program Summer / Fall 2023 Presentation and additional Rate Study information Fall / Winter 2023 Construction contract for Meadowbrook Subdivision Watermain & Street Improvements





THANKS!

Any questions? Kevin Kothe, P.E. Director of Public Works