



Lead Service Replacement Update

Village of Whitefish Bay

February 2025



Agenda

- Regulation Update
- Planning Outlook
- System Inventory
- Planning Decisions
- Costs & Customer Impact
- Timeline
- Staff Recommendations

Regulation Update

119TH CONGRESS
1ST SESSION

H. J. RES. 18

Providing for congressional disapproval under chapter 8 of title 5, United States Code, of the rule submitted by the Environmental Protection Agency relating to “National Primary Drinking Water Regulations for Lead and Copper: Improvements (LCRI)”.

IN THE HOUSE OF REPRESENTATIVES

JANUARY 13, 2025

Mr. PALMER submitted the following joint resolution; which was referred to the Committee on Energy and Commerce

JOINT RESOLUTION

Providing for congressional disapproval under chapter 8 of title 5, United States Code, of the rule submitted by the Environmental Protection Agency relating to “National Primary Drinking Water Regulations for Lead and Copper: Improvements (LCRI)”.

1 *Resolved by the Senate and House of Representatives*
2 *of the United States of America in Congress assembled,*
3 That Congress disapproves the rule submitted by the En-
4 vironmental Protection Agency relating to “National Pri-
5 mary Drinking Water Regulations for Lead and Copper:

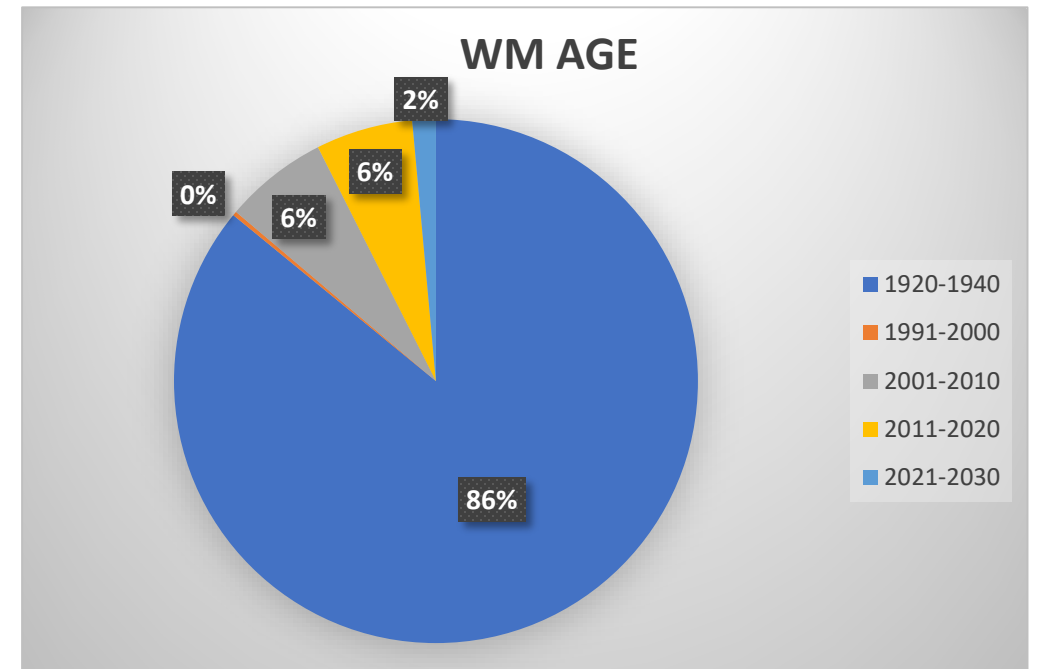
- LCR Improvements status
 - Under review by US Congress
 - Could be repealed by majority vote in Congress
 - AWWA lawsuit challenging parts of LCRI
- If Repealed
 - LCRR becomes effective (possible delay in compliance dates)
 - Uses 90th percentile from sampling results to drive lead lateral replacements
 - No partial lead line replacements

Planning Outlook

- What we don't know...
 - How will the regulations change
- What we do know...
 - Village infrastructure is aging. 86% of water mains and public service laterals are past their useful life
 - Past 25 years: water main replacement schedule averaged 0.5% per year
- What we can do today...
 - Formulate a strong financial strategy for the replacement of water mains and service laterals that is adaptable to regulatory changes, ensuring continuous compliance with Federal regulations for the Village.

System Inventory – Water Main

- Water Main Data (2023 PSC Report)
- 247,629 Feet of WM in the Village (47 miles)
- 212,773 feet of WM are pre-1941 (40 miles)
- Approx 86% of mains are 80 years or older
- Lifecycle of main 80 – 100 years



System Inventory – Service Line



- Public Utility Responsibility
- Private (Homeowner) Responsibility

System Inventory – Service Lines

- Total # of Active Services = 4,798
- Confirmed Public LSL = 2,097
- WFB Replacement Ratio 0.044
- LCRI Replacement Ratio 0.039
- Replace ~ 200 year

Public	Private	Amount
Confirmed Lead	Confirmed Lead	2,062
Confirmed Lead	Suspect L	7
Confirmed Lead	Confirmed Non Lead	28
Suspect L	Confirmed Non Lead	1,387
Confirmed Non Lead	Confirmed Lead	370
Confirmed Non Lead	Suspect L	95
Confirmed Non Lead	Confirmed Non Lead	848
Unknown	Unknown	1
Total		4,798

Planning Decisions

- Water Main Replacement
 - Increase the length of main to replace per year
 - Public service lines (main to curb stop) replaced as part of water main replacement program
- Public Lead Service Line (LSL) Replacement
 - Replace LSL within water main replacement area
 - Replace additional services to meet annual goal
 - Target goal of 230 LSL per year as of today
 - **Goal should meet or exceed the annual target replacement for the LCRI or LCRR**
- Private Lead Service Line Replacements
 - Municipal loan – repaid through special assessment
 - PSC PLSLR Program
 - Required or optional (depending on regulation)

Water Main Replacements

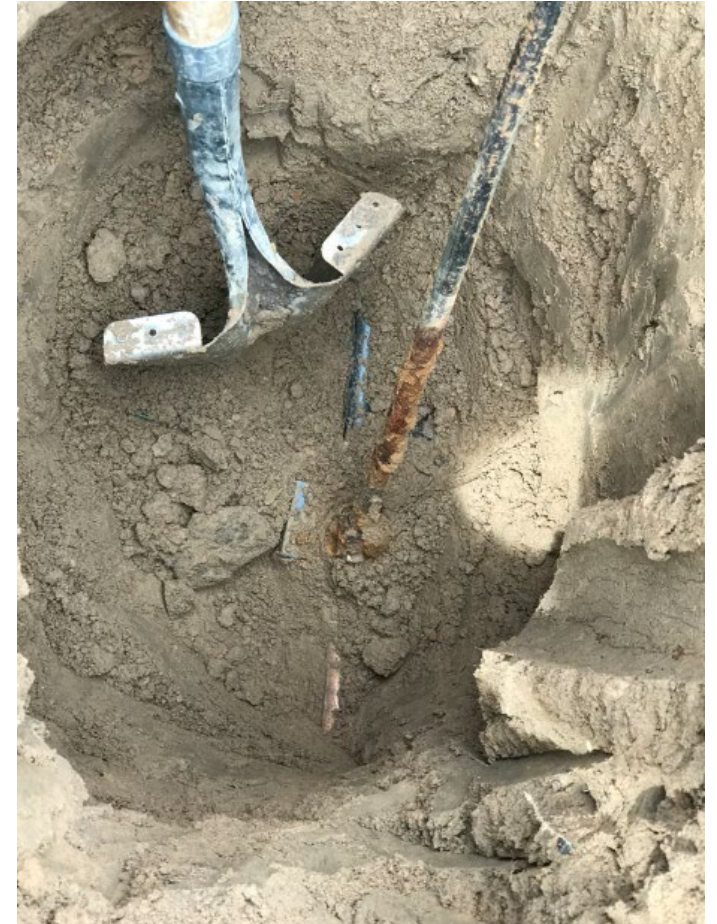
- Replace one mile (approx. 8-9 blocks) of water main annually over a 40-year period starting in 2027
- Increase annual main replacement from 0.5% to 2%
- Last water main replacement project occurred in 2022 on Glendale - Cumberland - Murray.

Public Service Line Replacement

- Staff Recommended Option
 - Replace 230 public lead service lines annually
 - Focus LSL replacements in water main relay area
 - Additional LSL replaced outside of the water main relay to meet the replacement goal
 - Based on water main replacement strategy & customer request
- Adjust as Necessary
 - Based on federal requirements
 - Based on results from unknown identification

Public Service Lines - Unknowns

- 1,388 unknown / suspect LSL
- Required to identify the unknown lateral material by 2028
- Waiting on guidance from DNR on acceptable practices
- Most common is pothole method at curb stop
- \$500 to pothole service = \$694,000



Private Service Line Replacement

- Financing
 - Staff recommendation – Special Assessment
 - Utilize existing Special Assessment Ordinance which requires interest to be included
 - Municipal loan to homeowner for replacement cost at set interest rate
 - Payable to the municipality over a three-year period on tax bill. Payment terms could be adjusted at the direction of the Village Board
 - PSC PLSL Grant Program to Homeowners
 - Utility collects additional revenue from all users through rate increase to help fund private side replacements
 - **Mandatory ordinance for replacement of all private side lead services**
 - 50% grant from the Utility for replacement cost
 - 50% homeowner funded (homeowner pays or municipal loan with interest)
 - Additional \$910,000 collected annually through rates for 11 years
- Replacement required or optional?

Annual Replacement Costs

- Public Infrastructure

Infrastructure	Total Quantity	Cost per unit	Total Cost
Water Main	5,300 ft	\$300 per ft	\$ 1.6M
Public Service Lines	230 ea	\$8,000 ea	\$ 1.8M
Public Infrastructure Cost			\$ 3.4M

- Private Infrastructure

Infrastructure	Total Quantity	Cost per unit	Total (Assessment)	PSC Program	
				Grant from Utility	Loan
Private Service lines	230 ea	\$8,000	\$ 1.8M	\$910,000	\$910,000

Financial Impact to Customers

- Based On Average Residential Customer
 - 18 ccf per quarter (13,500 gallons)

Quarterly Bill	Staff Recommended Option
2024	\$94.14
2030	\$154.60
Increase per quarter	\$60.46
% Increase	64%

- Costs shown above are the impact to the water portion of the utility bill

Planning Timeline & Priorities

- Current Regulation Requirements
 - Identify unknown service laterals in 2025-2027
 - May include pothole of services based on DNR guidance
 - LSL Replacement Plan submitted Q4 of 2027
 - LSL replacement targets begin in 2028
- Planning Priorities
 - Identify annual water main replacement scope and location
 - Collaborate with MMSD in the PPII program area
 - Identify cost and funding options
 - PSC rate application and approval

Staff Recommendations

- Replace one mile (8-9 blocks) of water main annually over a 40-year period starting in 2027
- Replace public LSL water service lines at the same time
- Budget for additional LSL service line replacements outside of relay project
- Total annual utility cost: \$ 3.4M
- Special assessment for private lead service line replacement
- Monitor federal regulations and increase LSL replacement pace as necessary.

- LSLRP Next Steps
 - Continue to monitor regulations
 - Investigate Unknowns
 - Investigate Funding Strategy
 - Implementation Timeline (LSRP Due Dec 2027)