



# Program Overview

# Lead Service Line Replacement

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Rochester Public Utilities Board Meeting  
Informational Agenda Item  
December 17, 2024



# EPA Lead and Copper Rule

**Lead exposure** is a public health concern and can cause increased blood pressure, heart disease, decreased kidney function, and cancer. In children, lead can harm mental and physical development.

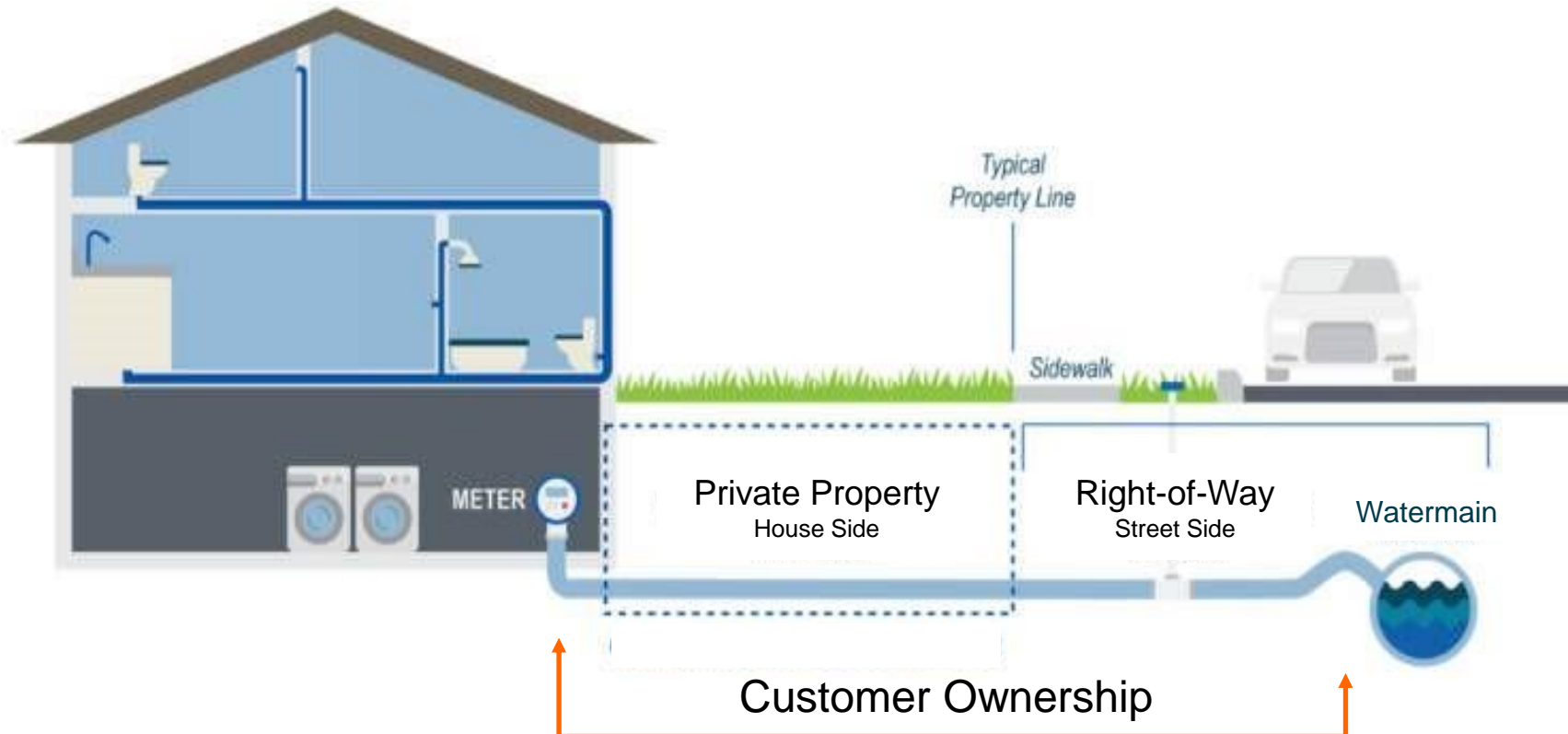
## Key Provisions:

Service Replacement	Water systems directed to replace lead services within <b>10-years</b> .
Inventory Updates	Regularly update water service inventories, create a service line replacement plans, and identify the materials of all service lines of <b>Unknown</b> material.
Sampling	Changes to collect first liter and fifth liter samples at sites with lead service lines and use the <b>higher of the two values</b> when determining compliance with the rule.
Action Levels	Lowers the lead action level from 15 µg/L to <b>10 µg/L</b> . When the action level is exceeded, the system would be required to inform the public.



# Water Service Ownership

Customers own the full length of the water service connection from the water main to the water meter. Services are not considered a fixed asset of RPU.





# Water Service Inventory

Lead Inventory Map available at:  
Minnesota Service Line Material Tool <https://maps.umn.edu/LSL/>

**Table 1 - Water Service Inventory**

Location	Lead	Galvanized (GRR)	Unknown	Non-Lead No Replacement
Private Property Only Private (House) Side	2	218	78	40,830
Public Right of Way Only Public (Street) Side	213	12	370	40,611
Full Service Private and Public Side	10	55	352	-
<b>Total Locations</b>	<b>225</b>	<b>285</b>	<b>800</b>	<b>41,600</b>





# LSLR Program Funding

- EPA estimates there are **9.2 million** lead lines connecting homes to water systems nationwide. The total cost is estimated to exceed **\$90 billion**.
- The Federal Infrastructure Investment and Jobs Act dedicated **\$15 billion** for LSLR funding.
- The Minnesota Legislature dedicated additional funding and consolidated the program under the Minnesota **Drinking Water Revolving Fund (DWRF)**, administered by the Minnesota Public Facilities Authority and Minnesota Department of Health.

RPU WATER SERVICE REPLACEMENT GOALS		
PROGRAM YEAR	LEAD AND GRR SERVICE REPLACEMENTS	UNKNOWN SERVICE MATERIAL INVESTIGATIONS
2025	50	100
2026	200	350
2027	310	350
2028	350	-
<b>TOTAL</b>	<b>910</b>	<b>800</b>



# Essential Program Components



## Prioritization Process

- Coordination with Street Reconstruction
- Priority Zones Based on Census Data



## Material Inventory

- Verification of Unknown Service Materials



## Public Engagement

- Voluntary Program Participation Goal > 95%
- Notification, Education, Outreach



## Design | Construction | Administration

- Engineering Design and Contractor Capacity
- Construction Administration and Customer Coordination





# Proposed 2025 Lead Projects

## Phase 1A - LSLR Advanced Replacements

Approximately 10 service line replacements for licensed **daycare** facilities and unplanned **leaking** lead services.

## Phase 1B - LSLR Programmed Replacements

Approximately 40 service line replacements within a designated portion of the service area.

EXPENSE CATEGORY	PHASE 1A ADVANCED REPLACEMENTS	PHASE 1B PROGRAMMED REPLACEMENTS
INITIAL PROGRAM DEVELOPMENT	\$148,000	\$0
PLANNING, DESIGN, CONSTRUCTION ADMIN	\$63,000	\$83,000
SERVICE MATERIAL VERIFICATION	\$10,000	\$34,000
CONSTRUCTION CONTRACT	\$110,000	\$385,000
INSPECTIONS, TESTING, GIS MAPPING	\$26,000	\$79,000
CONTINGENCY	\$18,000	\$65,000
TOTAL ESTIMATE	\$375,000	\$646,000



# Consideration of Future Board Actions



## **Grant Agreement with Minnesota Public Facilities Authority**

- Master Grant Agreement
- Individual Project Orders



## **Professional Services Procurement**

- Solicitation for Engineering and Construction Coordination Services
- Request for Proposals Issued Dec 13



## **2025 Budget Amendment for Program Costs in January 2025**

- \$1,021,000 carrying costs Jan 2025 to Nov 2025
- Intended Use Plan applications in May/July 2025
- Estimated total RPU Lead program cost is \$18 million



## **Expenditures for Private Water Services**

- Strategy for recovery of carrying costs for privately owned services





Questions?

**THANK YOU**