



Milwaukee's Lead Service Line Replacement Program Semi-Annual Report

**July 15, 2020 Public Works Committee
Common Council File #200367**


Lead Basics

- Lead is a toxic substance
- Lead exposure is cumulative
- There is no safe exposure to lead
- Young children are particularly vulnerable
- Goal is to remove ALL sources from the community
 - ✓ Lead Service Line Replacement Program



Source: US EPA
Region 5

Milwaukee Lead Service
Lines


Lead-Safe Milwaukee
SAFE PAINT SAFE WATER SAFE KIDS

Learn About Lead Lead-Safe Easy as 1-2-3

[CONTACT US](#) [VERSION EN ESPAÑOL](#)

There are several sources of lead you should know about. The most common way children are exposed to high levels of lead is through chipping, peeling or cracking lead-based paint in older homes. When lead is found in drinking water, it is usually because water can dissolve the lead in pipes and plumbing. What can you do to protect your family?

- 1**
Safe Paint:
- 2**
Safe Water:
- 3**
Safe Kids:

<https://city.milwaukee.gov/LeadSafeMKE>

Review of MKE lead service lines

- 1951 MWW installed last public-side LSL
- 1962 City ordinance requiring private side copper
- 2014 Public Service Commission ordered increased water main relay program
- 2015 MWW pilot study to assess lead in water
 - Study resulted in a moratorium on water main projects connected to LSLs
- 2016 MWW began replacing, rather than repairing, LSLs
 - Filters and lead safety materials provided
 - Led to mandate to perform **full** LSLRs only
- 2017 Lead Service Line Replacement Program established (CCFN 160742)
- 2019 Corrosion Control Treatment (CCT) Reevaluation of Optimization
- 2020 Lead and Copper Rule (LCR) Sampling
- 2020 LCR Revisions

Lead service line replacement mandate

As of January 1, 2017, full lead service line mandated to be replaced with copper when:

- A leak or failure has been discovered on either the privately- or utility- owned portion
- The utility-owned portion is replaced on either a planned or emergency basis
- The property is a child care facility (licensed or certified)

REPAIR or RECONNECTION to Lead Service Line PROHIBITED

- Property owner may initiate replacement of privately-owned section and MWW will replace utility-owned section

Lead service lines replaced to-date

Reason for LSL Replacement	2017	2018	2019	2020	Total (%)
Leak or failure	437	547	670	240	1894 (67)
Child cares and schools	150	204	129	2	485(17)
Water main relay project	18	143	179	36	376(13)
Owner initiated	11	39	23	12	85 (3)
Other utility work	6	0	1	0	7 (<1)
Total LSL Replacements	622	933	1002	290	2847 (100)
Total Filter Distribution	1164	1359	1377	513	4413

Lead service line financial impact

- \$13.4M budgeted for 2020 (1,100 LSLs goal)
- \$25.5M committed since January 1, 2017
- Average full replacement cost as of June 30, 2020: \$11,055
 - Private Side: \$5,775
 - Public Side: \$5,371
- One- to four- family residential property cost share for mandated replacements limited to \$1,754, as of March 1, 2020



Thank you.