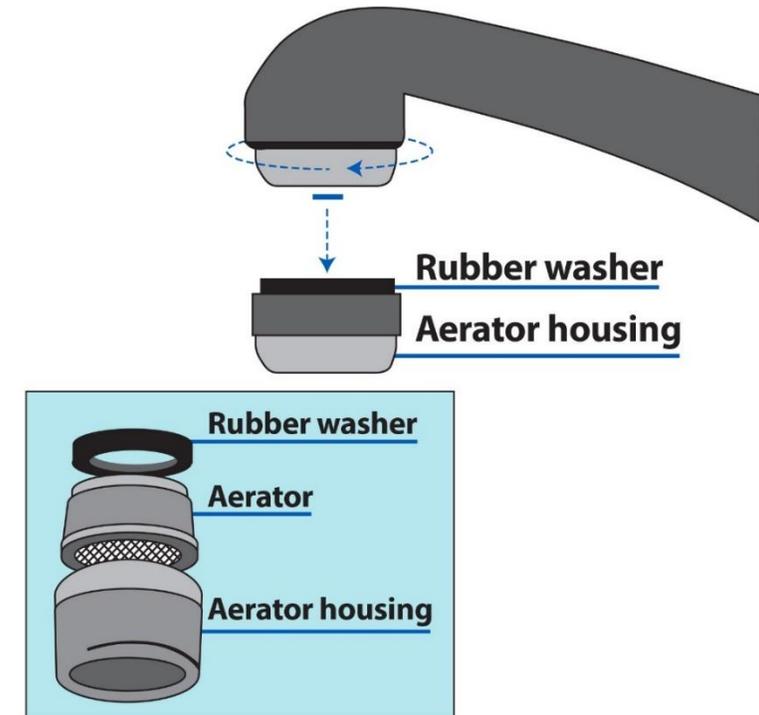


Protecting Your Family - Today

Tips to Immediately Lower your Lead Exposure

- Flush your tap – 3 minutes
- Use only **cold** water for drinking and eating
- Remove and clean faucet screens (aerators)
- NSF 53 filter for sensitive populations
 - Pregnant, breastfeeding, bottle feeding
- Replace LSL, lead plumbing, fixtures and solder
- During street construction on your block – flush every day

Note: Boiling does NOT eliminate lead



Water Filters

Recommended for:

- Children under 6
- Pregnant or may become pregnant
- Breastfeeding

NSF 53 certified to remove lead

Follow guidelines for **installation and maintenance**

Lead is NOT absorbed by the skin

Focus on water for drinking and cooking

[Example filters link](#)

- Hardware & home good stores
- MHD – if child has high blood lead level

Pour-through "Pitcher" Style				
Zero Water 23-Cup Dispenser (est. \$39.99) 	Zero Water Pitcher 6-Cup (est. \$19.99) 8-Cup (est. \$29.99) 10-Cup (est. \$34.99) 	Aquasana Pitcher AQ-CWM-D-B (est. \$129.99) AQ-CWM-D-W (est. \$129.99) AQ-CWM-P-B (est. \$129.99) AQ-CWM-P-W (est. \$129.99) 		
Faucet-mounted style				
 Pur FM-9000B[Pb] Ultimate Horizontal Water Filter (est. \$49.99)	 Pur FM-2000B[Pb] Basic Faucet Water Pitcher (est. \$26.99)	 DuPont WFFM100XW Premier Faucet Mount Drinking Water Filter (est. \$23.95)		
 Brita Model SAFF-100 Basic Filtration System (est. \$18.99)	 Culligan FM-25 (est. \$21.27)			
Counter-top connected to sink faucet <i>(Note: Most are not recommended for "pull-out" faucets.)</i>				
Stream Flow (F1) (est. \$397.00) 	Stream Nano (N1) (est. \$276.00) 	Aquasana Model AQ-4000 ("Claryum") (est. \$79.99) 	Austin Springs Model AS-DW-CT-P (est. \$124.99) 	Water Chef C7000 (est. \$129.95) 

Testing Your Water for Lead

- **Use the bottle supplied by the lab**
- **Avoid contamination**
 - Bottle closed until collecting sample
 - Do not touch the inside of the bottle or cap
 - Avoid sampling during construction in the home
- **Do NOT use any water for at least 6 hours before collecting**
- **Timing matters**
 - First draw sample – internal plumbing
 - Let water run 45-60 seconds – lead service line
- **Record time water last used, time sample collected**



Testing Your Water for Lead

Limitations of Testing

- **Testing lead in duplexes and apartment buildings**
 - **No control over timing because of other water users in building**
- **One moment in time - lead corrosion can vary based on:**
 - **Construction or disturbance**
 - **Time water sat still in pipes**
 - **Temperature and water chemistry**
- **At home tests – not accurate or sensitive enough**

Lead Service Line Replacement

Reason for LSL Replacement	2017	2018	2019	2020	2021	2022	Total (%)
Leak or failure	437	547	670	629	508	558	3349 (62)
Child cares and schools	150	204	129	48	67	77	675 (12)
Water main relay project	18	143	177	162	198	152	850 (16)
Owner initiated	11	39	23	24	27	30	154 (3)
Other infrastructure projects	6	0	1	25	186	174	392 (7)
Total LSL Replacements	622	933	1000	888	986	991	5420 (100)
Total Filter Distribution	1164	1359	1417	970	971	873	6754

Lead Service Line Replacement

- **When does a lead service line get replaced?**
 - Leak or failure
 - Childcares and schools
 - Planned project (ex. paving, water main replacement)
 - Owner initiated
- **Who pays for it?**
 - Milwaukee Water Works always pays for 100% of the public side (from water main to property line)
 - Owner initiated – owner pays for private side
 - Required replacement (leak, childcare, planned project) – cost share
 - Owner pays about 1/3 cost of private side – can be divided over 10 yrs



Lead Service Line Replacement Program

Equity Based Expansion Plan



- **Census blocks – normalized by population**

- Elevated blood lead levels
- ADI (Area Deprivation Index) Score
 - Similar to Social Vulnerability Index
 - Education, Income/Employment, Housing, Household Characteristics
- Lead Service Line Density

- **Future replacements planned**

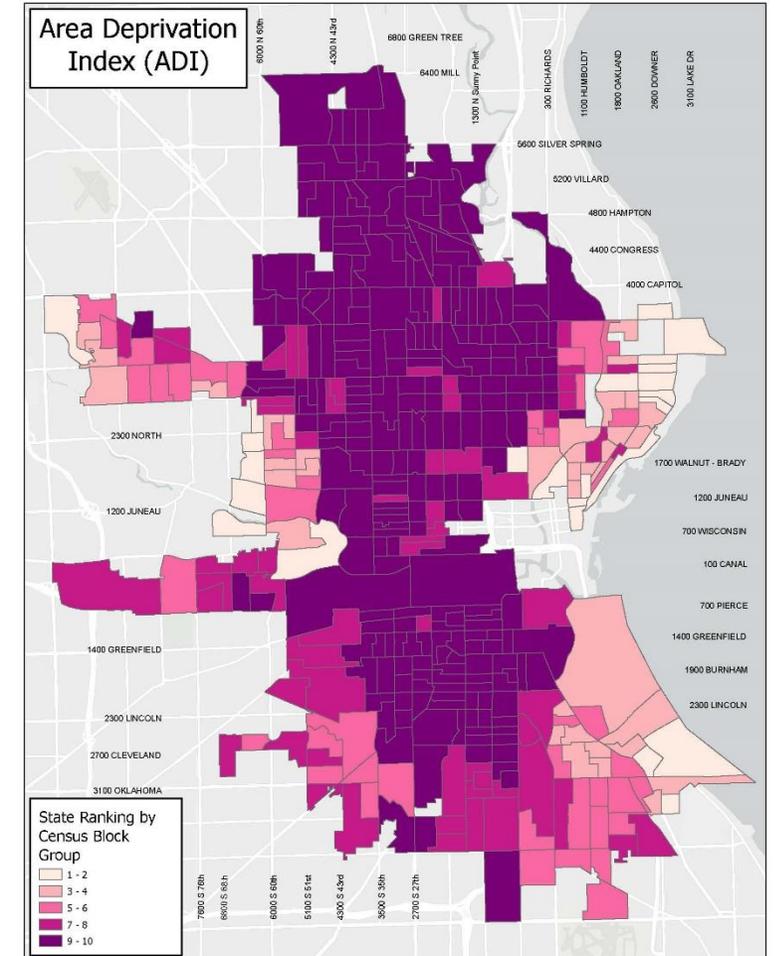
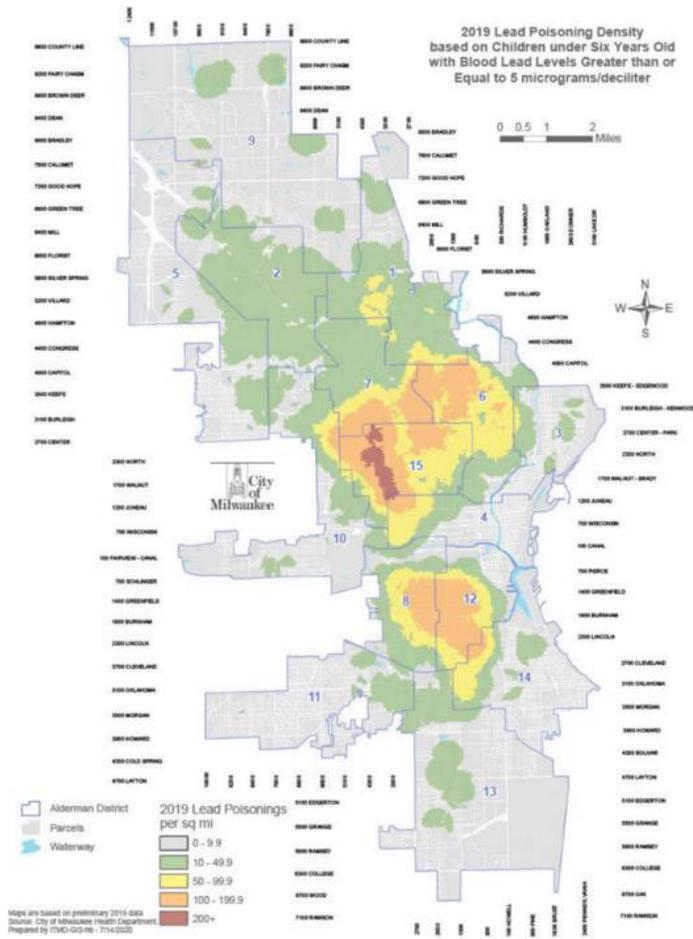
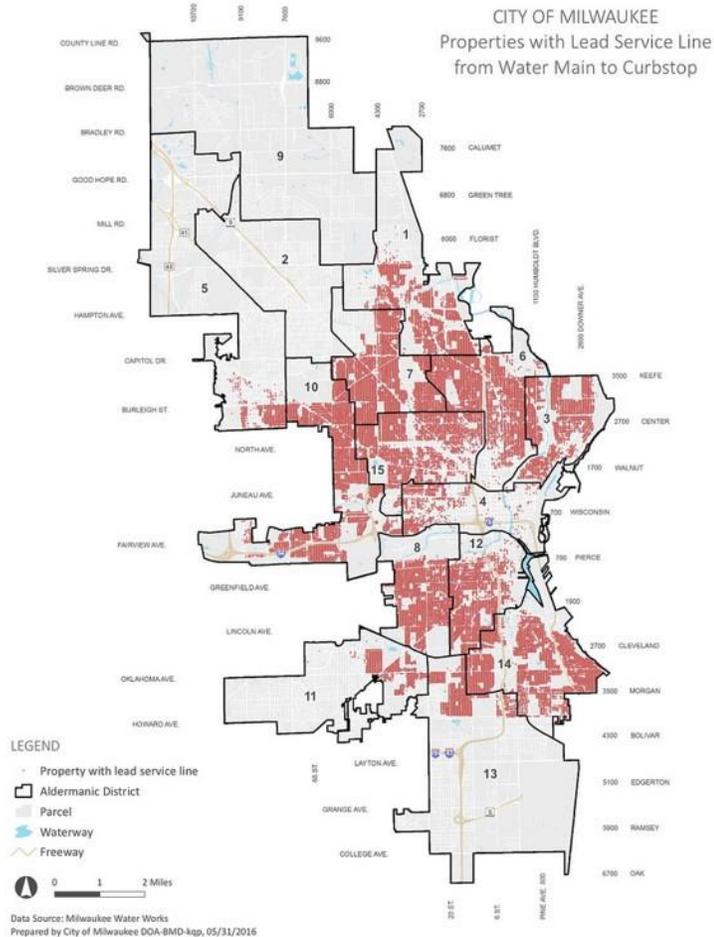
- 1200 in 2023
- 1700 in 2024
- 2200 in 2025
- Continued expansion based on avail. funds.

Box. Census Variables in the Area Deprivation Index

Domain	Variable
Education	% Population aged 25 years or older with less than 9 years of education
	% Population aged 25 years or older with at least a high school diploma
	% Employed population aged 16 years or older in white-collar occupations
Income/employment	Median family income in US dollars
	Income disparity
	% Families below federal poverty level
	% Population below 150% of federal poverty level
Housing	% Civilian labor force population aged 16 years and older who are unemployed
	Median home value in US dollars
	Median gross rent in US dollars
	Median monthly mortgage in US dollars
	% Owner-occupied housing units
Household characteristics	% Occupied housing units without complete plumbing
	% Single-parent households with children younger than 18
	% Households without a motor vehicle
	% Households without a telephone
	% Households with more than 1 person per room

Lead Service Line Replacement Program

Equity Based Expansion Plan



Lead Service Line Replacement Program

Schools & Childcares



- **Most schools never had a lead service line (LSL)**
 - Larger service lines are typically NOT lead
- **LSLs replaced for 10 private schools early in the program**
- **List of childcares regularly updated**
 - New childcares are prioritized for LSL replacement
 - Lead testing offered before and after LSL replacement
- **Lead and Copper Rule Revision Changes (Oct 2024)**
 - All primary schools and childcares will have lead tested within 5 years

Testing Your Water for Lead

Laboratories

- Wisconsin State Lab of Hygiene: slh.wisc.edu/environmental/water/
 - \$32 plus return shipping

Kit Ordering Information

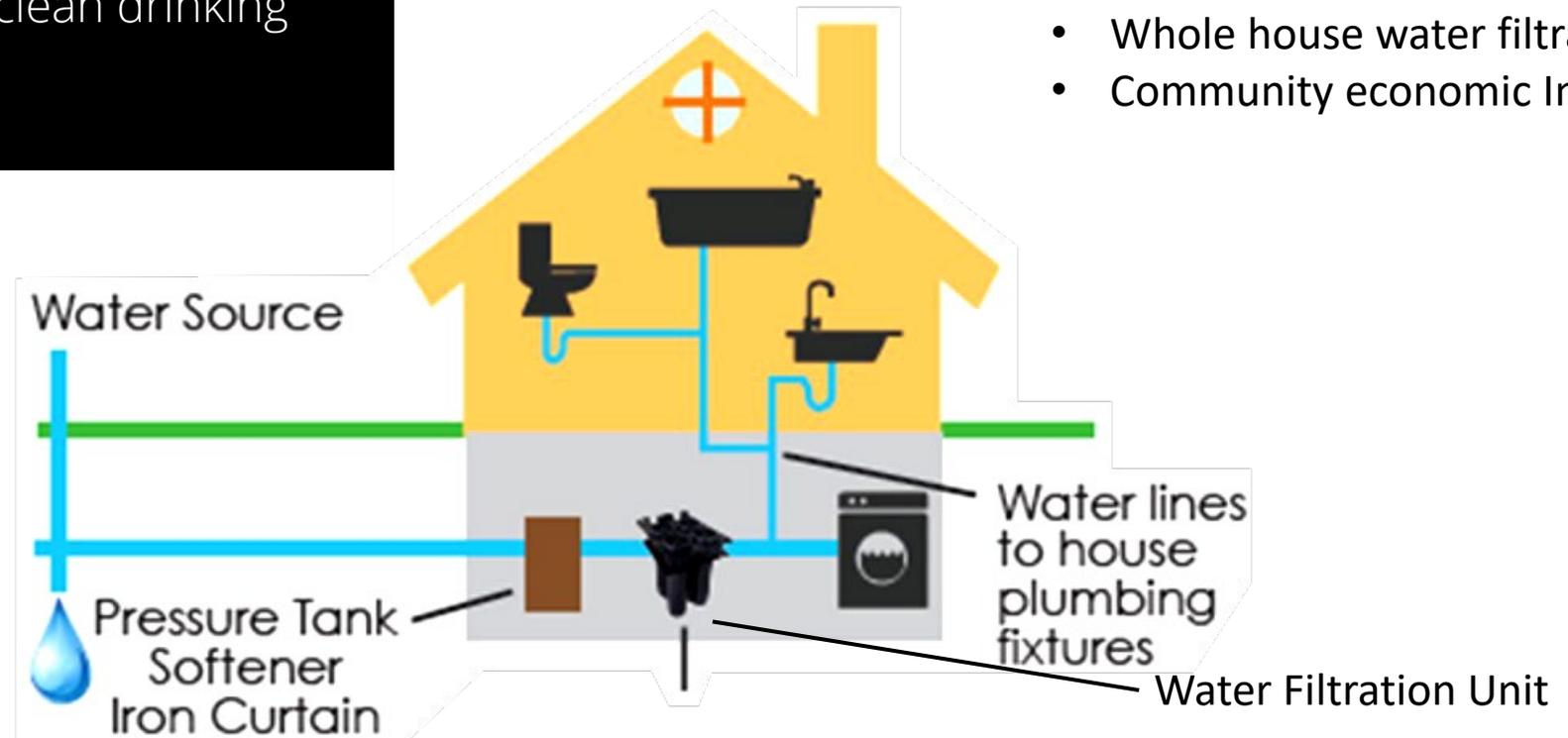
You may order sampling kits by calling (800) 442-4618 (in Dane County call 608-224-6202) or at our Customer Service desk in the lobby at 2601 Agriculture Drive in Madison, WI. Shipment of the kits to you is free, but you will have to pay for return shipment to our lab. **Do not send payment with your samples.** You will be billed after the tests are completed.

- Northern Lake Service: www.nlslab.com/residential-services/
 - \$35 plus shipping (or in person pick-up and drop-off)
 - 2420 N Grandview Blvd, Waukesha (262) 547-3406

Community Water Services is implementing a Beta project to demonstrate a sustainable and scalable technology for clean drinking water from the tap

The Beta project is...

- Water testing
- Referrals for abatement and medical services
- Whole house water filtration
- Community economic Impact



Providing Clean Tap Water

Community Driven by Collaborators & 85 Residents (and growing)

Alligator Holdings

Bradley Tech High School

Children's Health Alliance

COLE (Coalition on Lead Emergency)

Coerper-Maurer Foundation

Cross Lutheran Church

CUPED

DMR International . INC

Greater Milwaukee Foundation

HN Development

Kohler Foundation

Milwaukee Academy of Science

Medical College of Wisconsin (AHW)

Milwaukee Health Department

Milwaukee Water Works

Milwaukee Metro Sewage District

Milwaukee School Of Engineering

Social Development Commission (SDC)

South Division High School

Stonehouse Water Technologies

True Skool

Xylem

University of Wisconsin-Whitewater



COMMUNITY
WATER
SERVICES

Boldly Transforming our Community
and Society for a Better Tomorrow.

<https://communitywater.services>

336 tests at the tap in 87 homes.
34% had elevated lead levels.

Technology

*Will whole-house water filtration system
reduce lead levels to undetectable?*

Prevention

*Will community services connect to
prevent lead poisoning?*

