

# Lead & Copper Rule Revisions

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November 10, 2021



# Rule Overview

- Rule to protect public health
- Drinking Water Public Supply
- New Requirements in the revision
  - Pipe Inventory
  - Increased Sampling and Reporting
    - *Quantity*
    - *Frequency*
    - *Schools and Childcare Facilities*
  - Increased Treatment
  - Lead Service Line Replacement
  - Public Outreach

# Why is lead bad for humans?

- Reduced IQ
- Harmful to children
- Interferes with Calcium
- Stored in bones and teeth
- Cumulative effects



# Pipe Inventory

October 16<sup>th</sup>, 2024

Categories:

1. Lead
2. Galvanized requiring replacement
3. Lead status unknown
4. Non-lead

Publicly accessible

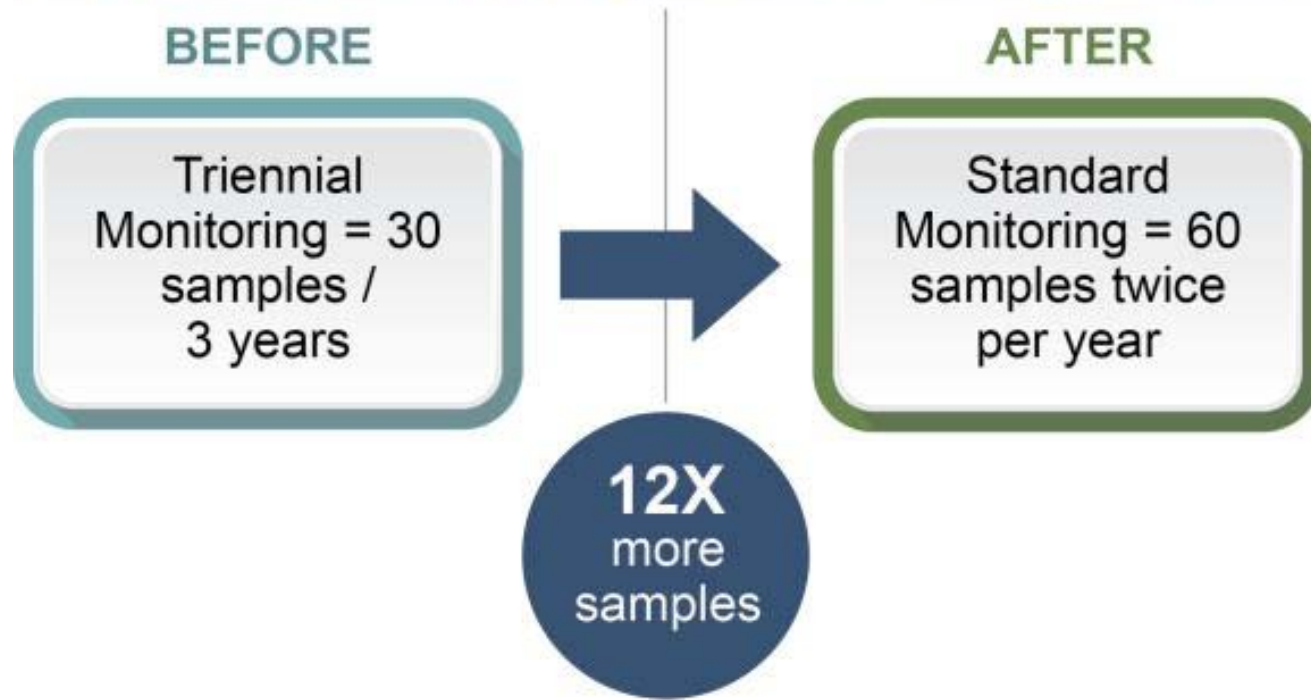
Online if > 50,000 people

Updated over time





For systems serving a population of 10,000 to 100,000:



More  
Water  
Quality  
Sampling



System Population	Samples
>100,000	100
10,001 –100,000	60
3,301 –10,000	40
501 –3,300	20
101 –500	10
<100	5

Water  
Quality  
Samples  
Required



## 90th Percentile

15+  
ppb

## Required Actions

**Tap Sampling:** Standard monitoring every 6 months  
**CCT:** Implement or re-optimize treatment  
**LSLR:** Full replacement at 3% per year

ACTION LEVEL 15 ppb

>10-15  
ppb

**Tap Sampling:** Standard monitoring every year  
**CCT:** Conduct new CCT study or re-optimize treatment  
**LSLR:** Full replacement at defined goal rate

TRIGGER LEVEL >10 ppb

0-10  
ppb

**Tap Sampling:** Reduced monitoring every 3 years\*  
**CCT:** Maintain treatment and WQPs  
**LSLR:** Voluntary

# 90<sup>th</sup> Percentile Requirements

# Sample Frequency

2x per year

Reduce Frequency can be requested:

- 1x per year if 90% of samples are  $< 15 \mu\text{g/L}$  but  $> 10 \mu\text{g/L}$
- 1x ever 3 years if 90% of samples are  $< 10 \mu\text{g/L}$



# Improving Lead Sampling to Better Protect Public Health

## EPA's Revisions to the Lead and Copper Rule

### EPA's new rule:

1. Targets water that's actually from the lead service lines, not just the faucet or premise plumbing
2. Targets where the highest levels of lead are to identify problems sooner
3. Leads to more lead service line replacements and improved treatment to reduce lead
4. Better protects public health



- PREMISE PLUMBING
- SERVICE LINE
- WATER MAIN



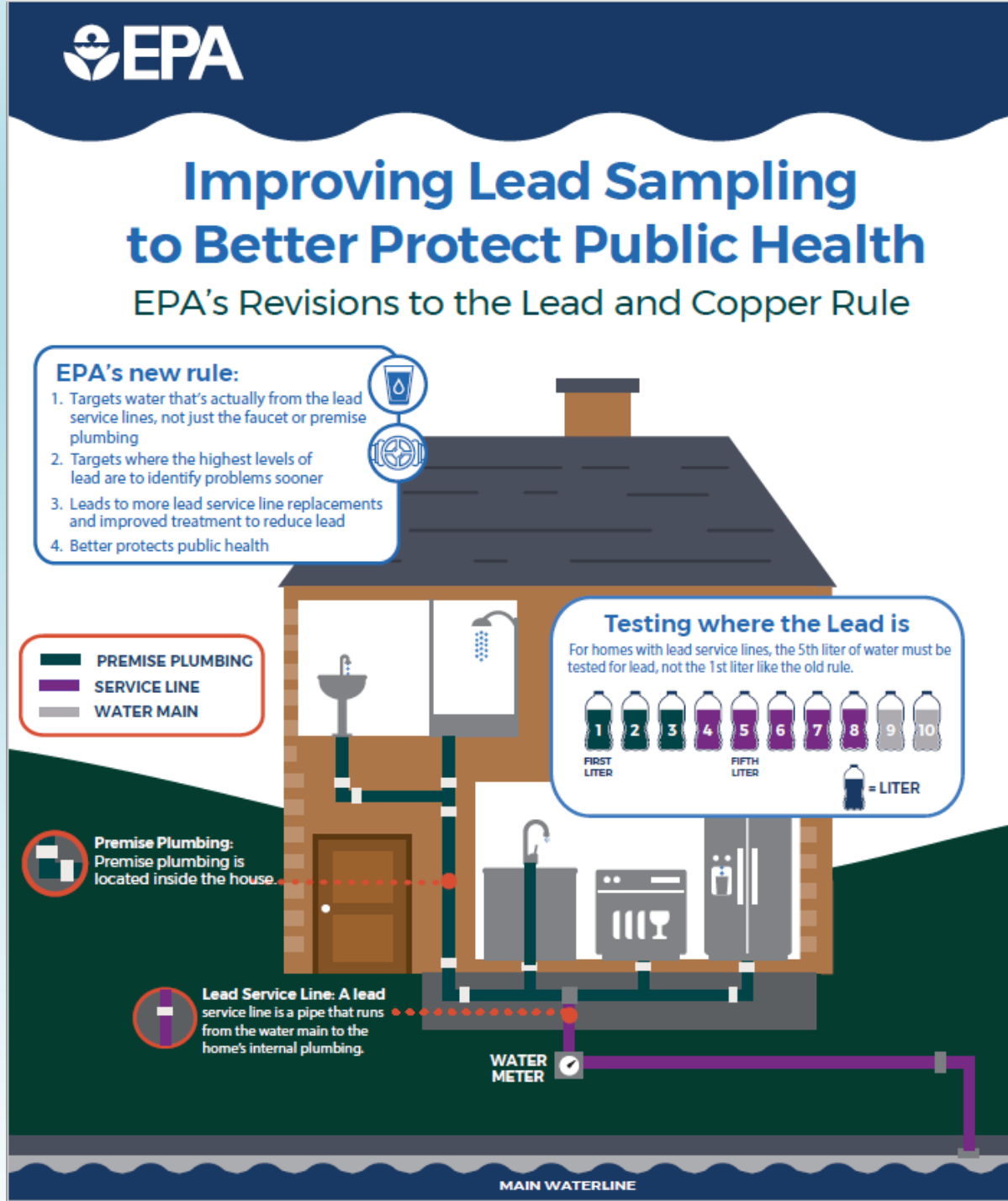
**Premise Plumbing:**  
Premise plumbing is located inside the house.



**Lead Service Line:** A lead service line is a pipe that runs from the water main to the home's internal plumbing.

### Testing where the Lead is

For homes with lead service lines, the 5th liter of water must be tested for lead, not the 1st liter like the old rule.



# Corrosion Control Water Treatment

- Orthophosphate inhibitor
- **Treatment addition required** if 90% of samples are  $> 15 \mu\text{g/L}$
- **Treatment study** must be completed if 90% of samples are  $< 15$  but  $> 10 \mu\text{g/L}$
- No treatment changes required if 90% of samples are  $> 10 \mu\text{g/L}$



# Lead Service Line Replacement

- Replace 3% per year if 90 % of Samples > **15  $\mu\text{g}/\text{L}$**
- Replace a lower % if 90% of samples are < 15 but > **10  $\mu\text{g}/\text{L}$**
- No treatment changes required if 90% of samples are > **10  $\mu\text{g}/\text{L}$**



# Schools

# Child Care

Starting in 2025 for the first 5 years:

- Primary Schools
- High Schools by request
- Licensed Child Care facilities
- Minimum 20% per year
- 5 locations, focus on water fountains and food prep areas
- Results reported within 30 days
- Excludes plumbing installed after January 1, 2014.



# Public Education Outreach

- Tell customers how to access:
  - LSL inventory a
  - Sampling results (CCR).
- If lead sample is higher than 15 ppb, notify direct customers within 24 hours.
- Inform consumers annually that they are served by LSL or lead status unknown service line.
- Encourage Participation in the Lead Service Line Replacement program.
- Updated health effects language in Consumer Confidence Report.
- Must be translated in other languages upon request.

# Schedule

- Rule Revision effective December 2021
- 3 years to complete
  - Lead Service Line inventory
  - Lead Service Line Replacement Plan
  - Planning to test schools and child care facilities
  - Public Education and Outreach
- Starting in 2025
  - Increased Sampling and Reporting Requirements