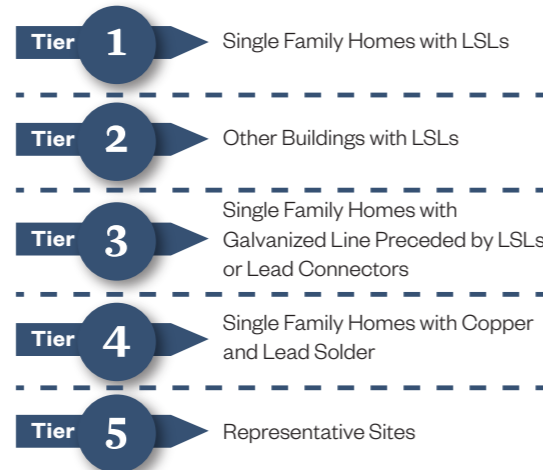


the recent **Lead and Copper Rule Revisions** will require utilities to meet all new regulatory requirements **by October 16, 2024.**

## Lead and Copper Tap Monitoring

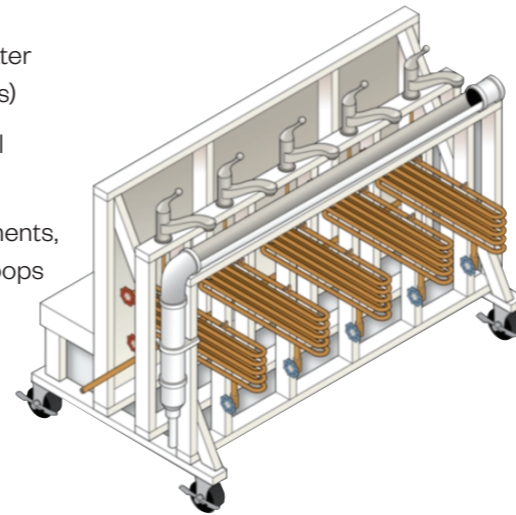
A variety of LCR Revisions impact the method and locations of tap monitoring including:

- New tier sample site selection requirements
- Introduction of fifth liter sampling
- "Find-and-Fix" requirement for samples greater than 15 ppb
- Sampling of schools and childcare facilities



## Corrosion Control Treatment

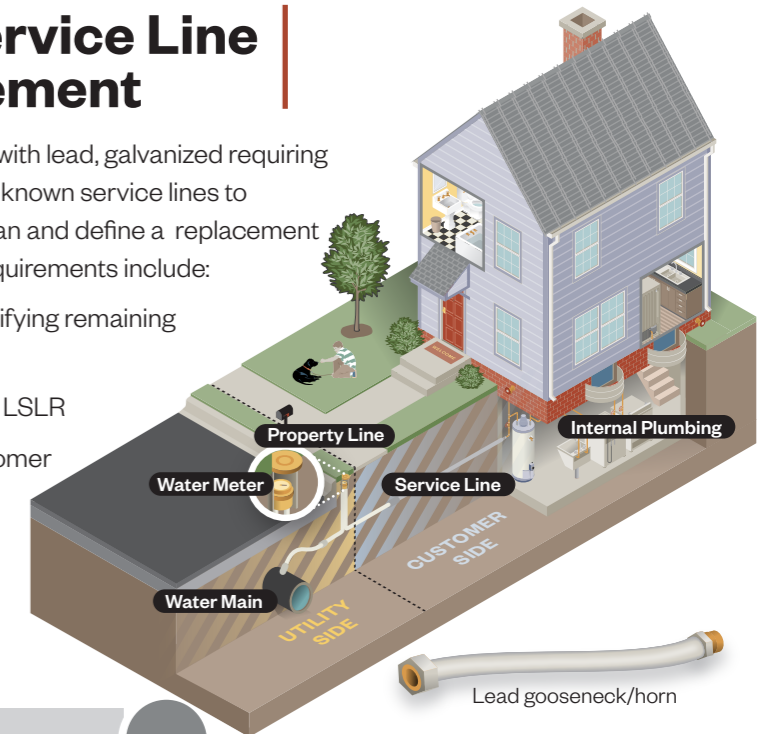
- Clarification of optimal Water Quality Parameters (WQPs)
- Requires corrosion control treatment or optimization
- New CCT testing requirements, including the use of pipe loops for systems with LSLs.



## Lead Service Line Replacement

Requires systems with lead, galvanized requiring replacement, or unknown service lines to develop a LSLR Plan and define a replacement rate. LSLR Plan requirements include:

- Strategy for identifying remaining service lines
- Procedure for full LSLR
- Strategy for customer notifications
- Flushing procedures



## Lead "Trigger" Level

Establishes new trigger level for lead of **10 ppb** in addition to the original action level of 15 ppb.

### 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

## Service Line Inventory

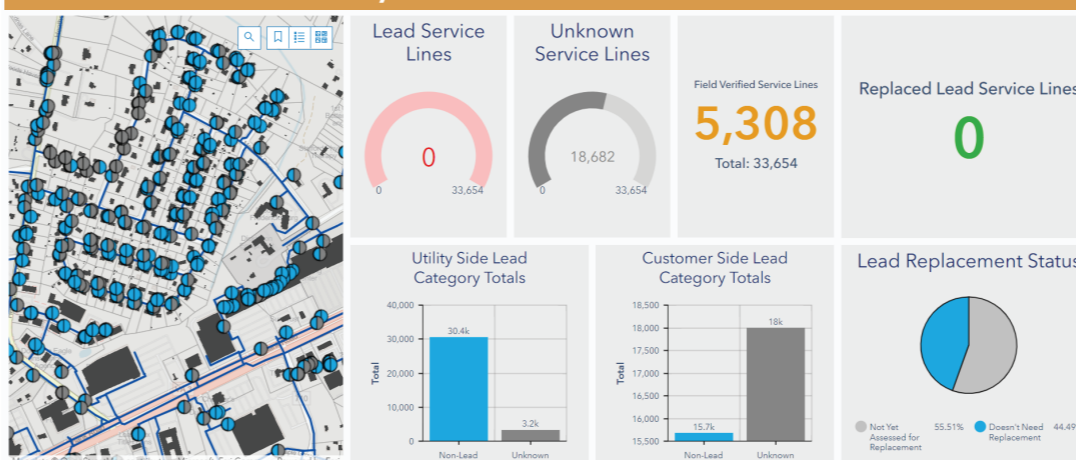
### LSL Inventory Classification

- Non-lead
- Lead
- Galvanized Requiring Replacement
- Lead Status Unknown

Requires systems with lead or unknown service lines to develop a publicly-available service line inventory. Inventories must be:

- Started with EPA-required record review
- Completed on the compliance deadline
- Annually updated, unless only non-lead remain

### Hazen Service Line Inventory Dashboard



## Funding

**\$15B+** in funding available for LCRR-related work

- Funding opportunities are available for:
- LSL Inventory Development
  - LSL Identification
  - LSL Replacement

Hazen has administered and implemented over **\$4.1 billion** in grant and loan funding

Hazen is assisting utilities across the country serving over 14 million customers with **developing and funding a framework and management strategy** to ensure continued compliance with LCR Revisions

# Lead and Copper Rule Revisions: a Guide to Successful Compliance

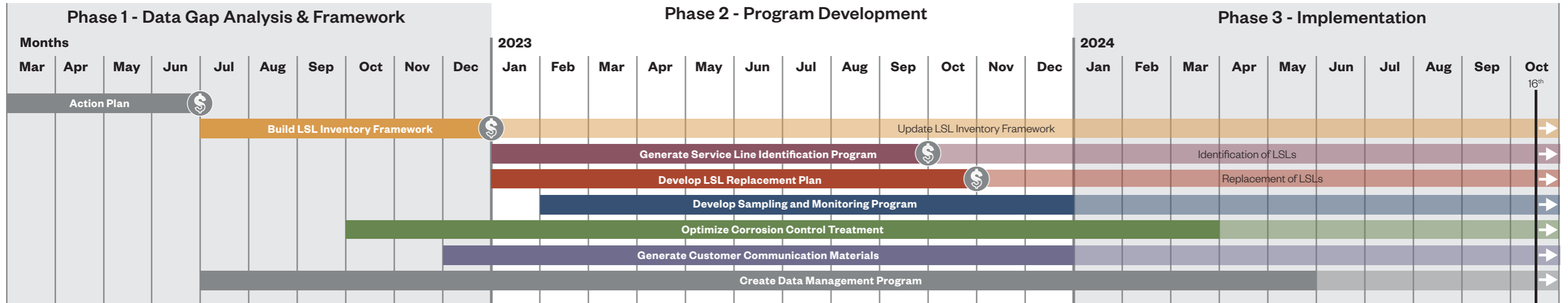
The LCRR became effective **December 16, 2021**. It's now time to prepare your utility for compliance.



## Compliance Deliverables Due October 16, 2024: LSL Inventory & LSL Replacement Plan

Compliance sampling begins in 2025 - unless your utility will begin LCRR-compliant sampling early to grandfather data in.

= Funding Strategies Should be Considered



### What have You Completed on Your Road to Compliance?

Create an Action Plan	Build LSL Inventory Framework	Generate Service Line Identification Program	Develop LSL Replacement Plan	Develop Sampling and Monitoring Program	Optimize Corrosion Control Treatment	Generate Customer Communication Materials	Create Data Management Program
<input type="checkbox"/> Perform a gap analysis of available data and resources <input type="checkbox"/> Evaluate historical records and plumbing codes <input type="checkbox"/> Develop task list, schedule, and funding <input type="checkbox"/> Ensure approach meets regulatory requirements	<input type="checkbox"/> Determine desired form (map, list, table) <input type="checkbox"/> Use available data to determine material designations (historical plumbing codes, sampling results, parcel age, meter size, etc.) <input type="checkbox"/> Perform likelihood analysis to prioritize service line identification	<input type="checkbox"/> Identify areas most likely to have LSLs <input type="checkbox"/> Evaluate available identification methods (subcontract or in-house) <input type="checkbox"/> Consider planned CIP and AMI projects for identification <input type="checkbox"/> Create an identification SOP and prioritization strategy <input type="checkbox"/> Update LSL inventory using identification results	<input type="checkbox"/> Confirm LSLR is required based on LSL Inventory results. <input type="checkbox"/> Create prioritization strategy for LSLR <input type="checkbox"/> Emphasize replacement in disadvantaged or sensitive areas <input type="checkbox"/> Identify a voluntary goal or required rate for LSLR <input type="checkbox"/> Develop SOP for replacement, follow-up sampling, and flushing procedures <input type="checkbox"/> Establish pitcher filter supplier <input type="checkbox"/> Identify and apply for funding	<input type="checkbox"/> Update compliance tier sites and water quality sampling locations <input type="checkbox"/> Develop 1st/5th liter sampling SOP <input type="checkbox"/> Create Find-and-Fix approach <input type="checkbox"/> Assemble list of schools and childcare facilities <input type="checkbox"/> Develop SOP for schools and childcare facility sampling	<input type="checkbox"/> Evaluate current treatment strategies <input type="checkbox"/> Identify optimization strategies <input type="checkbox"/> Consider proactive pilot study for optimization and long-term monitoring of CCT <input type="checkbox"/> Proactive sequential sampling at target sites	<input type="checkbox"/> Develop customer education materials to communicate impacts of regulatory changes <input type="checkbox"/> Create educational materials for school and childcare facility sampling <input type="checkbox"/> Prepare customer service line notification materials for LSLs, lead status unknown, and galvanized requiring replacement <input type="checkbox"/> Develop rapid response SOP for efficient communication of sampling results	<input type="checkbox"/> Build program management and data tracking platform/dashboard <input type="checkbox"/> Develop data management plan to track: <ul style="list-style-type: none"> <li>• LSL Inventory and Identification</li> <li>• LSLR</li> <li>• Sampling</li> <li>• Customer Communication</li> </ul>

**More to Come: EPA is now working on an additional revision to the LCR ("Lead and Copper Rule Improvements"- LCRI) that will be finalized prior to the October 2024 LCRR deadline.**

*\*While the EPA requires deliverables by October 16, 2024, some primacy agencies are accelerating the regulatory timeline. Hazen is working with utilities across the country on LCRR compliance, please reach out to our experts to clarify if your state's compliance deadline varies.*

**For More Information Contact:**  
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