#### LCRR:

# Failure to communicate is a violation waiting to happen

Texas Water<sup>™</sup> 2023

### Timeline for compliance



Dec. 16, 2021

**Effective Date** 

**EPA develops LCRI** 

(draft in 2023)



Oct. 16, 2024

#### **Compliance Date**

- Develop list of schools
   & licensed childcare
   facilities for sampling
- Submit to the State:
  - Service LineInventory
  - LSL ReplacementPlan



2025

 Start of 1st tap sample monitoring period.

Submit to the State:

- Tap sample sites
- WQP sites (if required)
- Tap sampling protocol (providing to individuals who are sampling)

### System size matters little









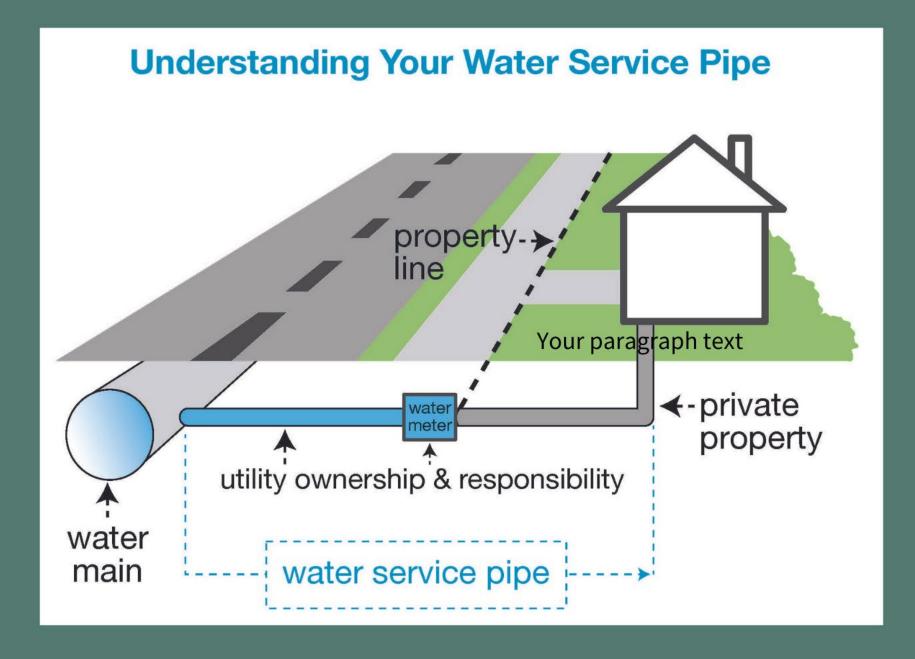
### Public Outreach



- Inventory
- Compliance Sampling
- Public Notification
- School & Daycare Sampling

- Corrosion Control
- LSL Replacements
- Disturbances
- Health Departments
- Annual Water Quality Report (CCR)





## Material Classifications:

- Non-lead
- Lead
- Unknown
- Galvanized requiring replacement

### Inventory

#### **Data Availability**

- Must include location identifier
- Info in CCR on how to access
- Large systems (>50,000 served)
   must post on website

#### Notify

- Customers with LSL, galvanized requiring replacement or unknown
  - Within 30 days of completing inventory
  - Annually until no longer in any of these categories
  - New customers at time service initiated
  - Notification language varies

### Compliance Sampling Tiers Change

	Current	New
Tier 1	Single-family, LSL or copper w/lead solder > 1982	Single-family with lead service line
Tier 2	Multi-family, LSL or copper w/ lead solder > 1982	Multi-family with lead service line
Tier 3	Copper w/ lead solder < 1983	Single-family with galvanized requiring replacement service line
Tier 4	Other	Single-family with copper pipes with lead solder
Tier 5		Representative of sites throughout distribution system

### New compliance sampling protocol



New 10 ppb trigger level (90th percentile calculation)



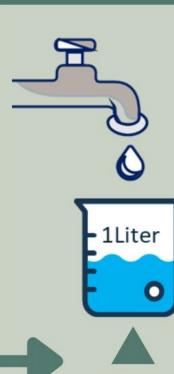
Determine Tier Levels (Tiers 1, 2, 3, 4, & 5)



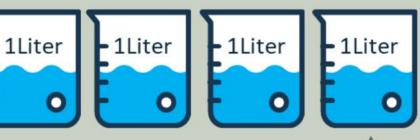
**5th Liter Sampling** 



Find and Fix (≥15 ppb)



Sampling at homes









LCRI may modify some of these requirements

#### **Individual Test Results**

- 30 days if <15 μg/L (ppb)
- 3 days if ≥15 μg/L (ppb)
- Communicating with occupants of building where tap was sampled



#### **Overall results**

- Annual outreach to state and local health departments
- Publicly available within 60 days



#### **Exceedances require outreach**

- > trigger level = 10 μg/L (ppb)
- > action level = 15 μg/L (ppb)
- AL exceedance = public notification (24 hours)





# **Compliance Sampling**

#### Trigger Level Exceedance (>10,000 served) Goal-based LSR replacements

Failure to meet replacement goal in 1st year

Must do one outreach activity (5 options)

More outreach
required each
successive year fail to
meet goal
(1 of 5 plus 2 of 4)

#### **Action Level Exceedance**

Public notice within 24-hours (Tier 1 Violation)

Must deliver materials to all bill paying customers

Offer free tap sampling to all customers

Mandatory replacement of 3% percent of full LSL annually

### Required content for printed materials





Health effects of lead

( Info on lead service lines

Sources of lead

Tell how to get water tested

- Steps to reduce exposure to lead in drinking water
- Why there are elevated and what doing to reduce

Discuss lead in plumbing components; difference between low lead and lead free

All <u>written</u> materials **must** be submitted to TCEQ prior to delivery.

TCEQ **may** require the water system to obtain approval of the content prior to delivery.





Plannned water line replacements



**Unplannned water line repairs** 



**Disturbances** 



**Customer initiated replacements** 

### Outreach: LSL Replacements





Notification to property owners and people at location at least 45 days before planned work will result in LSL replacement;



Must offer to replace private portion, but not required to pay for it

Planned

### LSL Replacements - Partial





Notification to customers **before** SL placed back in service:



May experience a temporary increase of lead levels in their drinking water due to the replacement



Required language on health effects of lead



Actions to minimize exposure to lead in drinking water



Procedure for flushing



Pitcher filter or POU device with six months of filters



Offer of follow-up tap sample 3 to 6 months after SL replacement

Planned & Unplanned

LSL Replacements - Partial or Full





When notified customer portion is being replaced and simultaneous replacement cannot be conducted or when find out it was replaced within previous six months:



Notification to customers **before** SL placed back in service:



May experience a temporary increase of lead levels in their drinking water due to the replacement



Required language on health effects of lead



Actions to minimize exposure to lead in drinking water



Procedure for flushing



Pitcher filter or POU device with six months of filters

**Customer Initiated** 

### LSL Replacements

#### Disturbances

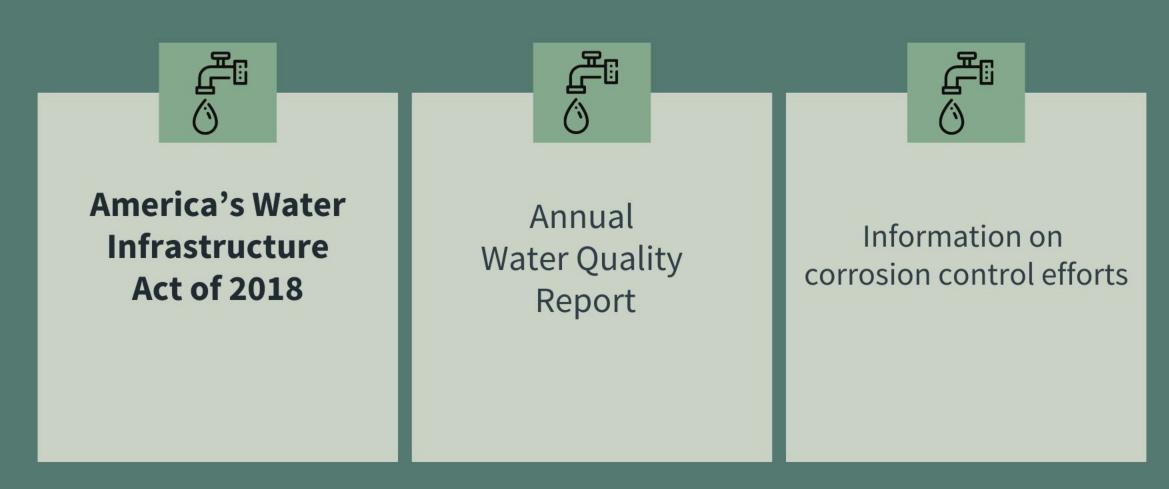
#### **Shut off or bypass**

(operating a valve on a service line or meter setter, and without conducting a partial or full lead service line replacement)



Replacing an inline water meter, a water meter setter, or gooseneck, pigtail, or connector

### **Corrosion Control**



### Schools and daycares



#### **Elementary Schools and daycares**



Health risks



Requirement to sample; proposed schedule



Instructions and 3Ts document



Results and remediation options



#### **Secondary Schools**



Health risks



info on how to request sampling



Results and remediation options









#### Find & Fix

- Location of sites exceeding action level
- Result of initial tap sample
- Result of follow-up tap sample
- Result of water quality parameter monitoring
- Distribution system management actions
- Corrosion control treatment adjustments made



#### **Schools and Daycare Results**



#### **Timing and Delivery**

- Annually by July 1 of following year
- By mail or other state approved delivery method

### Annual Water Quality Reports (CCR)



#### **Table**

- 90th percentile value
- # of sites exceeding action level
- Range of tap sample results



#### **Statements**

- Inventory prepared & how to access
- Complete sampling data are available & how to access

# **Existing** outreach materials



### **Takeaways**



Every part of the rule requires some outreach



Specific order for the information in the materials



New required language in materials



If you have not started, you are already behind

### Collaborate

#### **Within Utility**

**Meter Services** 

Field Operations

Customer Service

Public Engagement

Capital Delivery

Water IT

Laboratory

### Other City Departments

Code Compliance Consumer Health

Neighborhood Services

Development

#### **State Agencies**

TCEQ

TEA

**TDSHS** 

#### Local

County Health Departments

Schools (ISDs, parochial, private, charter)

Licensed child care

#### Other

Plumbers

Realtors

Social Service Organizations

Builders and Developers

**Equity Issues** 

### To do list (by Oct. 16, 2024)



**Develop a SL inventory** 



Eliminate "unknown" SL



Prepare website for displaying



Develop a LSL Replacement Plan (including Find & Fix protocols)



Develop an SOP for disturbances of lead, unknown and galvanized downstream of lead



Prepare sampling plan for schools and registered daycares



Update sampling pool in accordance with new tiers



Revise sampling protocols to meet new requirements



Contract with a lab, if no in-house capability



Develop public education materials /notifications



www.awwa.org/Resources-Tools/Resource-Topics/Contaminants-of-Concern/Lead/Lead-Communications

#### Resources: Rule



**Lead and Copper Rule Revisions**www.epa.gov/ground-water-and-drinking-water/revised-lead-and-copper-rule



Lead and Copper Rule www.epa.gov/dwreginfo/lead-and-copper-rule



#### **Electronic Code of Federal Regulations**

www.ecfr.gov/current/title-40/chapter-I/subchapter-D/part-141/subpart-I



#### **TCEQ Lead & Copper Rule Revisions**

www.tceq.texas.gov/drinkingwater/chemicals/lcrr



## TCEQ Drinking Water Advisory Work Group www.tceq.texas.gov/drinkingwater/dwawg



### **Resources: Financing**



**Drinking Water State Revolving Loan Fund:** 

www.epa.gov/dwsrf



**EPA Bipartisan Infrastructure Law**(aka Infrastructure Investment & Jobs Act):

www.epa.gov/infrastructure



**DWSRF** specific BIL site:

www.epa.gov/dwsrf/bipartisan-infrastructure-law-srf-memorandum



**Texas Water Development Board:** 

www.twdb.texas.gov/financial/programs/DWSRF/index.asp

#### LCR IMPROVEMENTS RULEMAKING

- Equity in lead service line replacement
- 2. All lead service lines replaced
- Combine / Lower Trigger –Action Level
- 4. Greater Pb concentration from 1st or 5th sample
- 5. Lead connectors
- Additional health protection measures

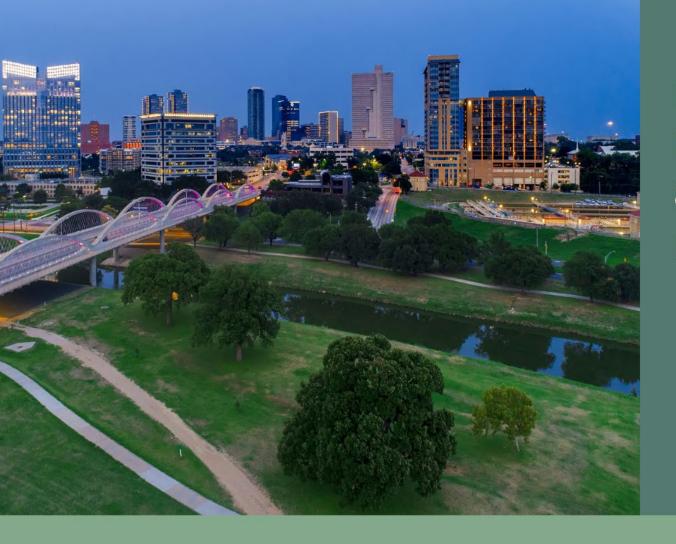
Utilities (84 Utilities, 2,909 Homes) with Lead Service Lines, max 1st and 5th L

Target Goal (TG)(ppb)	Samples > TG	% > TG
15	21	25%
10	31	37%
5	50	60%

Utilities (533 Utilities, 6,768 Homes) Cu Service Lines, 1st L

Target Goal (TG)(ppb)	Samples > TG	% > TG
15	11	2%
10	23	4%
5	52	10%

Source: David Cornwell (WQTC 2022). Analysis of Michigan Data



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## Thank You