Inventory Methodology

Enter Date Last Updated: 10/10/24

Purpose of this worksheet: For water systems to document the methods and resources they used to develop and update their inventory.			
Part 1: Historical Records Review			
Type of Record	Describe the Records Reviewed for Your Inventory		
Construction Records and Plumbing Codes Examples: Local ordinance adopting an international plumbing code. Permits for replacing lead service lines.	Utility development records (new installations); City Standard Details (allowable material types); Alameda County Assessors Office Data (building data); City Ordinance No. 87-022 and City Council Resolution No. 95-218 (related to adopting Building/Plumbing Codes)		
Water System Records Examples: Capital improvement plans. Standard operating procedures. Engineering standards.	Utility billings, work orders, and customer account records; Capital Improvement Programs; engineering procedures		
3. Distribution System Inspections and Records Examples: Distribution system maps. Tap cards. Service line repair/replacement records. Inspection records. Meter installation records.	Meter installation records (year and material type for orginal service line installation and subsequent renewals or abandonments); GIS mapbooks (construction year and material type for water mains)		
4. Other Records	Historical aerial photography (to verify tract developments); Google Maps Street View (to verify demolished buildings)		
Part 2: Identifying Service Line Material During	Normal Operations		
, ,	collecting information on service line material? Check all that apply.		
□ Water meter reading □ Water meter repair or replacement ☑ Service line repair or replacement	 ☑ Water main repair or replacement ☐ Backflow prevention device inspection ☐ Other 		
If "Other", please explain:			
2. Did you develop or revise standard operating procedures to collect service line material information during normal operation? If "Yes", please describe:			
Part 3: Service Line Investigations			
	ur system used to prepare the inventory (check all that apply).		
□ Visual Inspection □ Customer Self-Identification □ Pipe Dating □ Pipe Diameter □ Water Quality Sampling - Targeted □ Water Quality Sampling - Flushed □ Water Quality Sampling - Sequential	□ Water Quality Sampling - Other □ Predictive Models or Statistical Analysis □ Interpolation □ Interviews □ Emerging Methods □ Other		
in other or Emerging Methods, please explain:			

- 2. If "Predictive Modeling" or "Interpolation," please briefly describe the model and inputs used.
- 1) A randomized subset of services were visually inspected (to achieve 95% Confidence Level). Material type was interpolated based on confirmed material type of other services installed in the same decade. 2) Material type was interpolated for some services located in tract developments.
- 3. How did you prioritize locations for service line materials investigations? For example, did you consider environmental justice and/or sensitive populations, did you use predictive modeling, and/or did you target areas with high number of unknowns?

Services were randomly selected for visual inspection using a random number generator.

Inventory Summary

Enter Date Last Updated: 10/10/24

Purpose of this worksheet: For water systems to provide a summary of their service line inventory, including information on ownership, inventory format, and the number of service lines for each of the four required materials classifications.

Note that water systems may submit their completed LCRR initial inventories before October 16, 2024. Pursuant to 40 CFR 141.85(e), water systems must provide public notification to customers served by lead, galvanized requiring replacement, and/or lead status unknown service lines within 30 days after DDW's approval of the completed inventory. DDW will notify water systems by email when their inventory submission is approved.

Part 1. General Information		
1. Is this the Initial Inventory or an Inventory Update?	Initial Inventory	
2. Who owns the service lines in your system? <i>If other, please explain</i>	Ownership is split, meaning that the system owns and portion and the customer owns a	
below.	portion	
3. When were lead service lines banned in your system? Reference the state or local ordinance that banned the use of lead in your system.		
1985 (California Health and Safety Code Section 300.6)		
4. Do you have lead goosenecks, pigtails or connectors in your system?	No	

Part 2. Inventory Format

Describe your inventory format in the space provided below (e.g., the **Detailed Inventory** worksheet, custom spreadsheet, GIS map). Provide the filename and/or web address if applicable.

Detailed Inventory worksheet

Part 3. Inventory Summary Table 1

If you are using the **Detailed Inventory** worksheet, the classifications you select in the Column "Entire Service Line Material Classification" will be used to calculate the total number of service lines for each of the four material classifications below. Otherwise, enter the number of service lines blue- and aqua colored-cells.

Table 3.1. Inventory Summary by Ownership		
Service Line Material Classification	Number of Water System Owned Service Lines	Number of Customer Owned Service Lines
Lead	0	0
Galvanized	0	153
Galvanized Requiring Replacement	0	0
Non-Lead - Copper	17762	1422
Non-Lead - Plastic	8971	54
Non-Lead - Other	9622	34726
Unknown	0	0
TOTAL	36355	36355

Table 3.2. Inventory Summary Total		
Service Line Material Classification	Definition	Total
Lead	Any portion of the service line is known to be made of lead.	0
Galvanized Requiring Replacement (GRR)	The service line is not made of lead, but a portion is galvanized and the system is unable to demonstrate that the galvanized line was never downstream of a lead service line.	0
Non-Lead	All portions of the service line are known NOT to be lead or GRR through an evidence-based record, method, or technique.	36,355
Lead Status Unknown	The service line material is not known to be lead, GRR, or non-lead line. For the entire service line or a portion of it (in cases of split ownership), there is no evidence to support material classification.	0
Lead Gooseneck/Fitting	A short section of piping, typically not exceeding two feet, which can be bent and used for connections between rigid service piping.	0
Total Number of Service Lines		36,355

Notes

This summary table is for reporting material for the entire service line connecting the water main to the customer's plumbing. See the Section 4 of the Inventory Instructions or Exhibit 2-2 of U.S. EPA's Guidance for Developing and Maintaining a Service Line Inventory (US EPA, 2022).

Public Accessibility	Documentation
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Enter Date Last Updated: 10/10/24

Purpose of this worksheet: For systems to provide documentation to states on how they met the public accessibility requirements of the LCRR.

1. Sele	ect the location identifiers that you use for your service line inventory. Check all that apply.	
V	Address	
	Street	
	Block	
	Intersection	
	Landmark	
	GPS Coordinates	
	Other	
If "Oth	per", please describe:	
2. Doe	es every service line have a location identifier? Select "Yes" or "No"	
1	No", explain. Remember that location identifiers are required for service lines that are lead and galvanized requiring replacement.	
Yes		
3. How	v are you making your inventory publicly accessible? Check all that apply. Remember that if your system serves > 50,000 people, you must provide the	
inventory online.		
V	Interactive online map	
	Static online map	
V	Online spreadsheet	
	Printed service line map	
V	Printed tabular data	
	Information on water utility mailings or newsletter	
V	Hard copy information available in water system office	
	Other	
If "Oth	ner", please describe:	
https:/	//www.hayward-ca.gov/services/city-services/water-quality	
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