PWS Information

Purpose of this worksheet: For water systems to document basic system information.

Facility Information			
Water System Name:			
EDWARDS AFB - AIR FORCE RESEARCH			
PWSID:	Population Served (number of people):	Number of Service Connections:	PWS Type:
CA1510702	**444**	**209**	☐ CWS ☑ NTNCWS
Mailing Address			
Street or P.O. Box:			
225 N. Rosamond Blvd. Bldg. 3500			
City or Town:		State:	Zip Code:
Edwards AFB		**CA**	**93524**
System Contact Person			
Name:		Title:	
Mark Edwards		**Chief, Infrastructure Maintenance Flight**	
Telephone:		Email:	
(661) 275-2190		mark.edwards@us.af.mil	
Person Who Prepared Inventory (if different from above)			

Inventory Methodology

Enter Date Last Updated:	**09/12/24**

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
1. Construction Records and Plumbing Codes *Examples: Local ordinance adopting an international plumbing code. Permits for replacing lead service lines.*	**Real property records, utility master plans, and as-built drawings.** **Level of Confidence: High**
2. Water System Records *Examples: Capital improvement plans. Standard operating procedures. Engineering standards.*	**Geographic Information System (GIS) potable water data.** **Real property records and as-built drawings.** **Level of Confidence: High**
3. Distribution System Inspections and Records *Examples: Distribution system maps. Tap cards. Service line repair/replacement records. Inspection records. Meter installation records.*	**NA**
4. Other Records	**NA**

Part 2: Identifying Service Line Material During Normal Operations

1. During which normal operating activities are you 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:

An external contractor conducted an exhaustive historical data review to determine the service line material. For buildings constructed after January 1, 1986, with service lines with unknown material, it is assumed that they are not composed of lead, and the material will be determined during normal operations as stated above.

2. Did you develop or revise standard operating procedures to collect service line material information during normal operation?	***No***
If "Yes", please describe:	

Part 3: Service Line Investigations

1. Identify the service line investigation methods your 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

If "Other" or "Emerging Methods," please explain:

2. If "Predictive Modeling" or "Interpolation," please briefly describe the model and inputs used.

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?

All service lines were investigated through record review or non-intrusive field investigations.

Detailed Inventory

Date Last Updated: **8/21/2024**

Purpose of this worksheet: To provide a template for water systems to track materials for each service line in their distribution system.

General Instructions: Each row in this worksheet represents one service line connecting the water main to the customer's plumbing. The columns with the aqua shading are required for the Inventory Summary tab. Note that users can freeze panes to enable them to see the headings and notes when entering data. The worksheet includes examples rows and is formatted for approximately 10,000 entries. Please refer to the **red** triangle in the upper corner for additional instructions.

Error Count:
Rows Missing Information:

Location Information			System-Owned Portion										Customer-Owned Portion								
Unique Service Line ID (Optional)	Street Address	Other Locational Identifier	System-Owned Portion Service Line Material Classification	Lead Connector Present?	If Material Anything Other than "Lead" in Column E, Was Material Ever Previously Lead?	Service Line Installation Date	Service Line Size (inches)	Basis of Material Classification	Was the Service Line Material Field Verified?	Describe the Field Verification Method	Enter the Date of Field Verification	Notes	Customer-Owned Portion Service Line Material Classification	Service Line Installation Date	Service Line Size (inches)	Basis of Material Classification	Was the Service Line Material Field Verified?	Describe the Field Verification Method	Enter the Date of Field Verification	Notes	Entire Service Line Material Classification (If error or "Missing Information" appears, ensure columns are filled correctly. See instructions)
8484	*Bldg. 8484*		*Galvanized*	*Don't Know*	*No*	*Unknown*		*Historical Records*					*Galvanized*	*Unknown*		*Historical Records*					Non-lead
8498	*Bldg. 8498*		*Galvanized*	*Don't Know*	*No*	*1991*	*8*	*Historical Records*					*Galvanized*	*1991*	*8*	*Historical Records*					Non-lead
8917	*Bldg. 8917*		*Non-Lead - Plastic*	*Don't Know*	*No*	*1959*	*2*	*Historical Records*					*Non-Lead - Plastic*	*1959*	*2*	*Historical Records*					Non-lead
9002	*Bldg. 9002*		*Galvanized*	*Don't Know*	*No*	*1963*	*16*	*Historical Records*					*Galvanized*	*1963*	*16*	*Historical Records*					Non-lead
9005	*Bldg. 9005*		*Galvanized*	*Don't Know*	*No*	*1963*	*1*	*Historical Records*					*Galvanized*	*1963*	*1*	*Historical Records*					Non-lead
9025	*Bldg. 9025*		*Unknown*	*Don't Know*	*No*	*1965*						*During field inspection on 07/22/24, no visible external water lines to the building were observed*	*Unknown*	*1965*						*During field inspection on 07/22/24, no visible external water lines to the building were observed*	Lead Status Unknown
9250	*Bldg. 9250*		*Galvanized*	*Don't Know*	*No*	*1963*	*8*	*Historical Records*					*Galvanized*	*1963*	*8*	*Historical Records*					Non-lead
9423	*Bldg. 9423*		*Galvanized*	*Don't Know*	*No*	*Unknown*	*2*	*Historical Records*					*Galvanized*	*Unknown*	*2*	*Historical Records*					Non-lead

Inventory Summary

Enter Date Last Updated:	**08/05/24**

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.

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? *If other, please explain below.*	***The entire service line is owned by the water system***
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.	
The system is a federal facility and follows the federal Safe Drinking Water Act (SDWA) Lead ban instituted on June 19, 1986 which prohibited use of pipe, solder, or flux in Public Water Systems that is not "lead free". California implemented the lead ban effective January 1986, as outlined in Chapter 300.6 of the CA Health and Safety Code (CA HSC, 1985).	
4. Do you have lead goosenecks, pigtails or connectors in your system?	***Don't Know***

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 in the State-specified template.

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	146	146
Galvanized Requiring Replacement	0	0
Non-Lead - Copper	12	12
Non-Lead - Plastic	8	8
Non-Lead - Other	32	32
Unknown	11	11
TOTAL	209	209

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.	**198**
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.	**11**
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		**209**

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

Enter Date Last Updated:	08/05/24

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

1. Select the location identifiers that you use for your service line inventory. Check all that apply.

- ☐ Address
- ☐ Street
- ☐ Block
- ☐ Intersection
- ☐ Landmark
- ☐ GPS Coordinates
- ☑ Other

If "Other", please describe:

Unique Air Force Facility IDs for buildings, structures, and recreational areas are used for the "Unique Service Line ID" with "-1", "-2", etc. following to represent each service line for that facility.

2. Does ***every service line*** have a location identifier? ***Yes***

If "No", explain. Remember that location identifiers are required for service lines that are lead and galvanized requiring replacement.

3. How 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.*

- ☐ Interactive online map
- ☐ Static online map
- ☐ Online spreadsheet
- ☐ Printed service line map
- ☐ Printed tabular data
- ☐ Information on water utility mailings or newsletter
- ☑ Hard copy information available in water system office
- ☑ Other

If "Other", please describe:

Hard copy and excel version of the service line inventory is available for viewing at the Edwards Environmental Office.