

Lead Service Line (LSL) Inventory Field descriptions

Black font required for inventory and must be populated

Blue font - Useful for tap monitoring location determination - OPTIONAL

Green font - Good information for water system to know - OPTIONAL

Purple font - results are calculated by the spreadsheet using previous inputs. Do not edit.

Field Name	Description
PWS ID	OR41##### - no letters at the end
PWS name	Water system name
Operator(s) submitting report	Name of person(s) submitting report
Date completed	Date completed
Site ID	This is determined by and is for the water system to track records. While every effort should be made to not have this change between submittals, circumstances may dictate that it does. For example, if account number is used it might change when customer ID changes (or the meter is changed).
Location Identifier (conditionally required)	This field is required when the service line status is Lead or GRR (galvanized requiring replacement) but optional for all others and is a description of the physical location of the service line. This can be the address but can also be another description (for example "2nd line east from intersection of 5th and Main" or latitude/longitude coordinates).
-- Note: The service line is broken up into 2 sections: upstream of the meter (commonly called the public side) and downstream of the meter to the building inlet (commonly called the private side). If there are not 2 different sections (such as a single owner), choose which is more accurate (public or private) and enter "Not (PWS/customer) owned" on the other.	
Water system owned service line current material	See drop down for choices by selecting cells on inventory sheet. See green (optional data) section if you want to record additional information
Customer owned service line current material	See drop down for choices by selecting cells on inventory sheet. See green (optional data) section if you want to record additional information
If customer service line is galvanized, was upstream service line material ever lead?	See descriptions below (rows 46-49)
Service line material identification method - Water system or customer	Method used to identify the service line material. See descriptions below. Choose from drop down on inventory sheet.
Service type for connection	Type of building this connection serves. See descriptions below. Choose from drop down on inventory sheet.
Connector material to water main (i.e. goosenecks)	if possible, identify if the type of material used for the short piece of pipe that connects the water main to the service line. See descriptions below. Choose from drop down on inventory sheet.
Interior plumbing	This is the type of pipes inside the building. See drop down on inventory sheet for choices.
Is there POE/POU treatment?	Point of entry (POE)/Point of use (POU) - does this service line have any additional premise treatment present making it non-representative of the water system? Ex. a home water softener system
Water system main material & size	what kind of pipe is the water main supplying the service line. Include size if desired as well
Water system service line size	pipe diameter
Customer service line size	pipe diameter
Year (or range) water system or customer owned service line installed	What year (or range of years) was the service line installed? The 2 portions can be different so there are separate columns for reach. If a section has multiple years it is recommended that you use oldest year of any portion of that section.
Water system notes	Optional field for water system to make notes if desired.

LSL status	This will auto-populate based on previous answers. A running summary is also provided at the top. If error, review information causing error.
Testing site tier level (TBD)	Placeholder for future enhancement that will help identify sites to use in tap monitoring. US EPA may make changes to this criteria in the next few years so this is not yet developed.

Descriptions for select field options

Current service line material definitions	
Lead	lead pipe
Galvanized (Iron or Steel)	A pipe with a galvanized coating to service water. Pipe material under coating does not make a difference.
Non-lead - Copper	copper pipe
Non-lead - Plastic	Any plastic pipe. More details on the type of plastic can be recorded in the notes section.
Non-lead - Other	Material other than those listed. Suggested you record the material in notes section.
Non-lead - Not specified	Exact pipe material is not provided. Also use this for non-lead determinations using the statistical approach when location was not inspected.
Non-lead - 2+ inches	Service line diameter is 2 inches or greater. There are no known lead pipes in this category.
Non-lead - unk - post 1985	The material is unknown but records show that it was installed after December 31, 1985.
Unknown	Unknown material
Not PWS owned	Use on public water system service line when the customer owns the entire service line from the water main to the building.
Not customer owned	Use on customer service line when the water system owns the entire service line from the water main to the building.

Upstream service line material ever lead	
Yes	Upstream is or was lead while current customer service line in place
No	Records indicate lead never used while current customer service line in place
Unknown	Insufficient information on previous materials while current customer service line in place
NA - not galvanized	Determination is only needed when customer service line is galvanized.

Service line material identification method definitions	
Records only	Reviewed paper or electronic records.
On site inspection only	On site inspection of the pipe material.
Both records and inspection	Both records and on site inspection were used.
Customer data	Customer provides evidence of material type that is acceptable to the water system.
Statistical - inspected	Identifies a randomly selected service line that was physically inspected as part of the statistical review
Statistical - not inspected	Use of a statistical analysis method for determining likelihood of lead service lines.

Community Service type definitions	
Single family	Designated single family living unit (per zoning code).
Multi family	Multiple family living units at connection. (Ex. apartments, townhomes, etc.)
School/daycare	The connection is a registered day care or school regulated by the Department of Education.
Other/non-residential	Not a residence or school/daycare. This can be a worksite or location where potable water would reasonably be obtained including public drinking fountains or bathrooms (ex. Park).

Non-potable	A service line not used for potable water. (Ex. fire suppression or irrigation use only) This does not include fire hydrants.
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Connector type definitions	
Lead	
Previously Lead	
Non-lead	
Unknown	

Interior plumbing types	
Lead	
Copper	
CPVC	
Pex	
Galvanized	
Other	Anything not listed before. Recommend to include in water system notes.
Unknown	Unknown material

Lead Service Line (LSL) Inventory

PWS ID (OR41####) OR4101328
 PWS name Port of Morrow
 Operator submitting report Miff Devin
 Date completed 10/10/2024



color key
 Black - required
 Blue: monitoring location determinations
 Green: good to know
 Purple: calculated by spreadsheet - do not edit

revision March 2023

Summary	GRR	Unknown	Non-Lead	Error*	Total
Lead	0	0	62	0	62

GRR=Galvanized requiring replacement * resolve all errors prior to submission

Site ID	Required for Lead service line inventory					Useful for tap monitoring location determination - OPTIONAL					Good to know - OPTIONAL					Calculated by spreadsheet - do not edit	
	Location Identifier (Required for Lead and GRR status only - optional for other service lines)	Water system owned service line current material	Water System service line material identification method	Customer owned service line current material	If customer service line is galvanized, was upstream service line material ever lead?	Customer service line material identification method	Service type of connection	Connector material to water main (i.e. goosenecks)	Interior plumbing material	Is there POE/POU treatment?	Water system main material & size	Water system service line size	Year (or range) water system owned service line installed	Customer service line size	Year (or range) customer owned service line installed	Water system notes	LSL status
Example:	123 Example Way	Non-lead - UNK - post 1985	On site inspection only	Non-lead - unk - post 1985	No	Records only	Single Family	Non-lead	Copper	No		1988-1990		1990		Example - not included in count	
	Boardman Foods 6"	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				6				Non-Lead	
	Boardman Foods 10"	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				10				Non-Lead	
	LWW South	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	LWW East	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				10				Non-Lead	
	LWW Receiving	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				10				Non-Lead	
	LWW Boiler	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	LWE Line 1	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				8				Non-Lead	
	LWE Domestic	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				4				Non-Lead	
	LWE Line 2	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				10				Non-Lead	
	OPC	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				10				Non-Lead	
	Reklaim	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	Morrow Cold Storage (N)	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				6				Non-Lead	
	Morrow Cold Storage (E)	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				2				Non-Lead	
	Morrow Cold Storage (S)	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				2				Non-Lead	
	Pacific Ethanol 1	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	Pacific Ethanol 2	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	Calbee Fresh	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				10				Non-Lead	
	Calbee Lawn	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				4				Non-Lead	
	Calbee Expansion	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				12				Non-Lead	
	Tillamook Fresh	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				8				Non-Lead	
	Tillamook Whey Plant	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				10				Non-Lead	
	PDX 1 Line 1	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	PDX 1 Line 2	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	PDX 1 Line 3	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	PDX 1 Line 4	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	LWE Guard Shack Bathroom	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead						3/4"		Non-Lead	
	PDX 4 South	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	PDX 62 Line 1	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 62 Line 2	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 62 Line 3	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 62 Line 4	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 109 Line 1	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 109 Line 2	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 109 Line 3	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 109 Line 4	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 170 Line 1	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 170 Line 2	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 170 Line 3	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 178 Line 1	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	CalFoods	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead				10				Non-Lead	
	Zeachem	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				8				Non-Lead	
	NW Container	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				10				Non-Lead	
	American Rock	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	Fredrickson	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				10				Non-Lead	
	PGE Fresh Unit 2	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	PGE Well 2	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	PGE Well 3	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				2				Non-Lead	
	PDX 50	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	PDX 52	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	LWE Lawn	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	OPC Shed	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	Les Schwab	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	BPA	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	Kodiak Carbonic	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	LW Sheds	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	Windwave	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				2				Non-Lead	
	Columbia Machinery	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead				1				Non-Lead	
	Columbia Machinery Lawn	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	MidColumbia Concrete	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	Mint Still	Non-lead - 2+ inches	Records only	Non-lead - 2+ inches	NA - not galvanized	Both records and inspection	Other/non-residential	Non-lead								Non-Lead	
	PDX 4 North	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	
	PDX 4 West	Non-lead - 2+ inches	Both records and inspection	Non-lead - 2+ inches	NA - not galvanized	Records only	Other/non-residential	Non-lead								Non-Lead	

Replacement plan format TBD

Note: not needed if 100% of service lines are non-lead

The following requirements (found in the OAR) will need to be answered regarding Lead, GRR and unknown service lines:

1 A strategy for determining the composition of lead status unknown service lines in its inventory

2 A procedure for conducting full lead service line replacement

3 A strategy for informing customers before a full or partial lead service line replacement

4 A procedure for customers to flush service lines and premise plumbing of particulate lead

5 A lead service line replacement prioritization strategy based on factors including but not limited to the targeting of known lead service lines, lead service line replacement for disadvantaged consumers and populations most sensitive to the effects of lead

6 A funding strategy for replacing lead service lines which considers ways to accommodate customers that are unable to pay to replace the portion they own

7 For systems that serve more than 10,000 people, a lead service line replacement goal rate as approved by OHA

Inventory Methodology

PWS Name:	Port of Morrow
PWSID:	OR4101328
Date:	10/18/2024

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 and Indicate Your Level of Confidence (e.g. , Low, Medium, or High)
1. Previous Materials Evaluation <i>Example: Locations of Tier 1 lead tap sampling locations that are served by a lead service line.</i>	Water sampling of the distribution system was negative for lead (6/2024) - High
2. Construction Records and Plumbing Codes <i>Examples: Local ordinance adopting an international plumbing code. Permits for replacing lead service lines.</i>	Port engineer's office reviewed construction plans and design records - High
3. Water System Records <i>Examples: Capital improvement plans. Standard operating procedures. Engineering standards.</i>	Port engineer's office reviewed all customer records prior to 1985 - High
4. Distribution System Inspections and Records <i>Examples: Distribution system maps. Tap cards. Service line repair/replacement records. Inspection records. Meter installation records.</i>	Port engineer's office reviewed distribution system maps - High
5. Other Records	N/A

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.

<input type="checkbox"/> Water meter reading	<input checked="" type="checkbox"/> Water main repair or replacement
<input checked="" type="checkbox"/> Water meter repair or replacement	<input type="checkbox"/> Backflow prevention device inspection
<input checked="" type="checkbox"/> Service line repair or replacement	<input type="checkbox"/> Other

If "Other", please explain:

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). If a water system chooses an investigation method not specified by the state under 40 CFR §141.84(a)(3)(iv), state approval is required. **Note that investigations are not required by the LCRR but can be used by systems to assess accuracy of historical records and gather information when service line material is unknown.**

<input checked="" type="checkbox"/> Visual Inspection at the Meter Pit	<input checked="" type="checkbox"/> Water Quality Sampling - Other
<input type="checkbox"/> Customer Self-Identification	<input checked="" type="checkbox"/> Mechanical Excavation
<input type="checkbox"/> CCTV Inspection at Curb Box - External	<input checked="" type="checkbox"/> Vacuum Excavation
<input type="checkbox"/> CCTV Inspection at Curb Box - Internal	<input type="checkbox"/> Statistical/Predictive Modeling
	<input type="checkbox"/> Other

If "Other", please explain:

N/A

2. If "Statistical/Predictive Modeling", please briefly describe the model and inputs used:

N/A

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?

No prioritization was required as there are no lead lines with our water system.