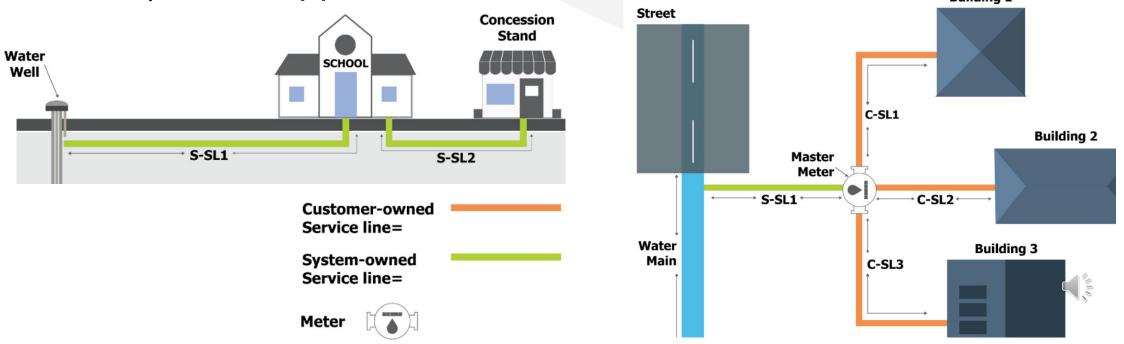
Lead and Copper Rule Revisions (LCRR) Initial Lead Service Line Inventory Overview for Small Systems

Michelle dela Cruz LCRR Unit September 2024

Water Boards

Background

 Inventory all service line locations, materials, and verification methods on the public (system-owned) and private (customerowned) side if applicable



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Background

- All community (CWS) and non-transient non-community (NTNC) water systems are required to submit an LSLI
- Email any questions to the LCRR Unit at <u>ddw-lslreports@waterboards.ca.gov</u> with your water system number in the subject line
- Response may take a while!
- Check the <u>LCR Water System Resources</u> webpage for more information

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Background

- Inventory is due on October 16, 2024
- No extensions or exemptions
- Submit on the LSLI Submission Portal
- DDW Inventory Spreadsheet Template
 - Serve as main file, backup, or multiple versions for your records
 - Easy to send for review
 - Easier to transfer inventory data to the portal
 - Easier to update and resubmit in the future

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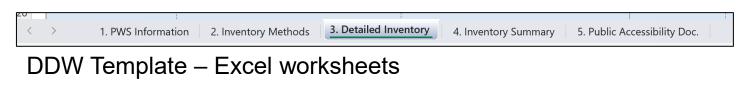
Template and Portal

Same structure, but slightly different

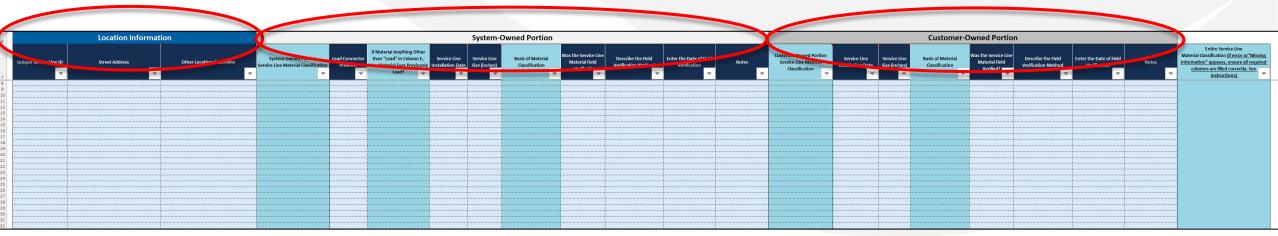
- Template allows more details
- Portal is simpler and has character limits

Sections/Tabs for Reporting:

- 1. Public Water System (PWS) Information
- 2. Inventory Methods
- 3. Detailed Inventory
- 4. Inventory Summary
- 5. Public Accessibility



✿ Home > Submit					
PWS Information	Inventory Methods	Detailed Inventory	Inventory Summary	Public Accessibility	Sebmit Inventory
LSLI Porta	al – Submiss	sion tabs			



DDW Template – Detailed Inventory

Three parts

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- Location Information
- System-Owned Portion (main/source to meter/valve)
- Customer-Owned Portion (meter/valve to house/building)

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Division of Drinking Water

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Detailed Inventory

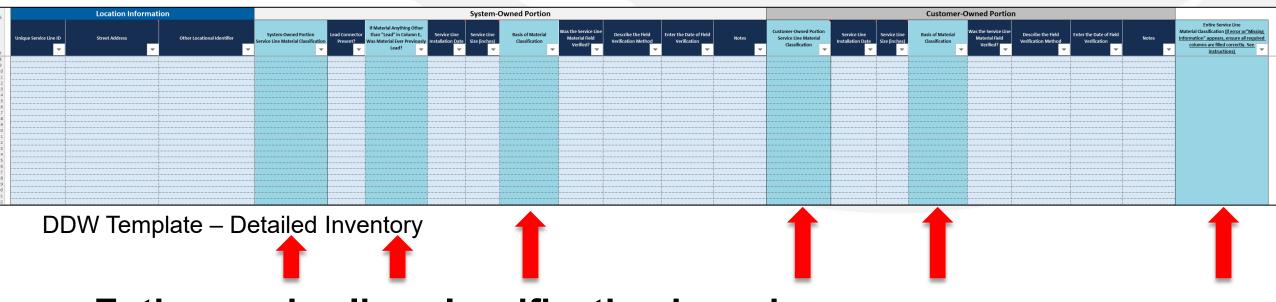


Only one owner for entire service lines (no system portion or no customer portion)

- Enter same information on system and customer side
- Or enter material on either side of a meter/shut-off as if it were splitownership

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Detailed Inventory



Entire service line classification based on

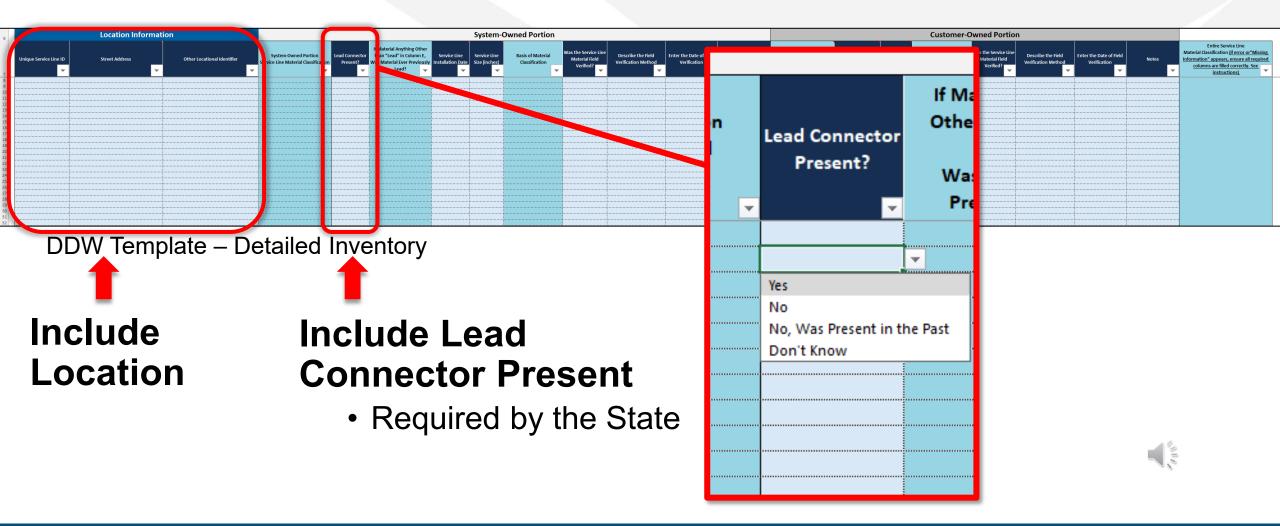
- System-Owned Portion (Material, Previously Lead?, Basis)
- Customer-Owned Portion (Material, Basis)
- Last column auto-populates based on system and customer side

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Detailed Inventory



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General Inventory Process

 List all service lines and locations
Records review
Field verify/inspect unknowns (Submit a work plan if needed)
LSLI Submission Portal
Revision/Approval

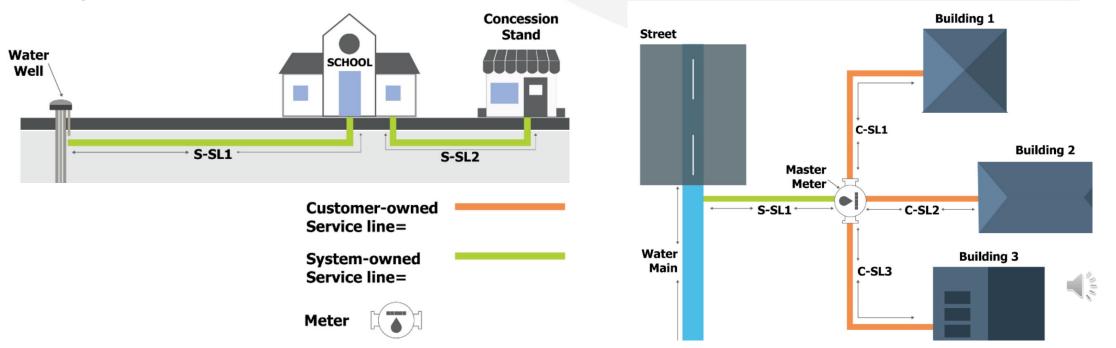


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List All Service Lines and Locations

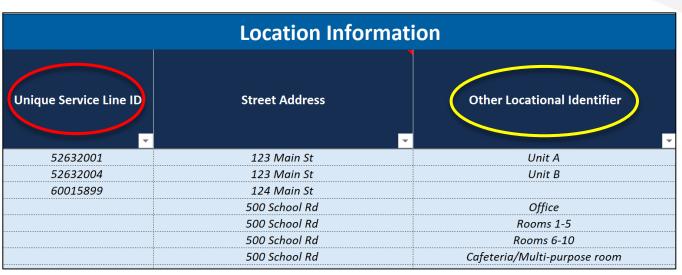
 Include all lines connecting the source or distribution main to the interior plumbing of a building (or multiple buildings) regardless of ownership, material, or intended use



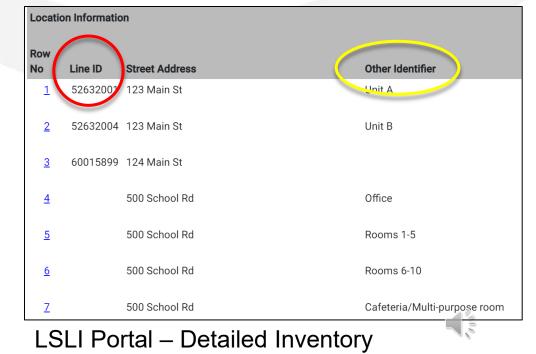
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List All Service Lines and Locations

 Use unique locations (e.g., street address + descriptive identifier if needed) for each service line



DDW Template – Detailed Inventory



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List All Service Lines and Locations

 Number of service lines in inventory ≈ service connections in Electronic Annual Report (EAR)

ventory Methods	Detailed Inventory	Inver			
ata from our spreads	heet				
n the row to edit its	Click 'Paste' only <u>once</u> w				
Displaying rows 1 to 100 of 7 Total Service Lines					
LSLI Portal – De	etailed Inventory				

3. Provide any additional information about the inventory, including any discrepancies between the number of service lines submitted in the EAR and the LSL Inventory.

3 connections are for landscape irrigation and do not connect to any buildings in the system

LSLI Portal – Inventory Summary

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Determine materials and other information from records

- As-builts, replacement/repair, distribution maintenance, etc.
- 2018 CA service line inventory for community water systems (utility/system side only)

Part 1: Historical Records Review	
Type of Record	Describe the Records Reviewed for Your Inventory. (An entry is required for each field. If non-applicable, enter 'NA')
1. Construction Records and Plumbing Codes * Examples: Permits for replacing lead service lines, local ordinance adopting a plumbing code.	Construction & Plumbing Codes *
2. Water System Records * Examples: Standard operating procedures, engineering standards.	Water System Records *
3. Distribution System Inspections and Records * <i>Examples: Tap cards, service line</i> <i>repair/replacement records.</i>	Distribution System Inspections *
4. Other Records *	Other Records *

LSLI Portal – Inventory Methods



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Describe the records reviewed in the Inventory Methods section

Specific is better

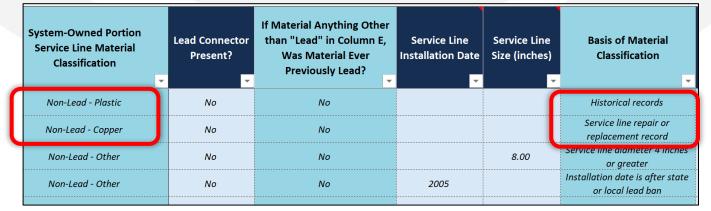
You are not required to submit record files with the inventory

• Keep records and documentation LSLI Portal – Inventory Methods in your system records for potential inventory audits

Type of Record	Describe the Records Reviewed for Your Inventory. (An entry is required for each field. If non-applicable, enter 'NA')	
• Construction Records and Plumbing Codes * Examples: Permits for replacing lead service ines, local ordinance adopting a plumbing code.	Construction & Plumbing Codes *	
Water System Records * Examples: Standard operating procedures, engineering standards.	Water System Records *	
Distribution System Inspections and Records * Examples: Tap cards, service line epair/replacement records.	Distribution System Inspections *	
. Other Records *	Other Records *	



- Enter actual material if known
- Historical records
 - → Description in Notes recommended
- Service line repair or replacement record
 - → Description in Notes recommended



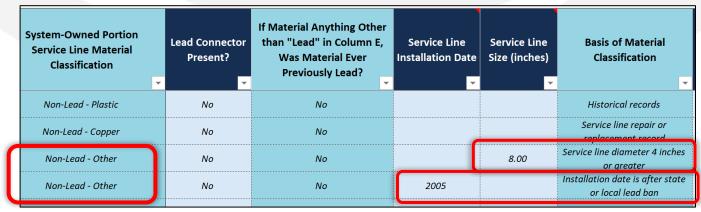
DDW Template – Detailed Inventory



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• Service line diameter 4 inches or greater

- \rightarrow "Non-Lead Other"
- \rightarrow Line Size required
- \rightarrow Enter as decimal inches
- → Do not enter fractions or text



DDW Template – Detailed Inventory

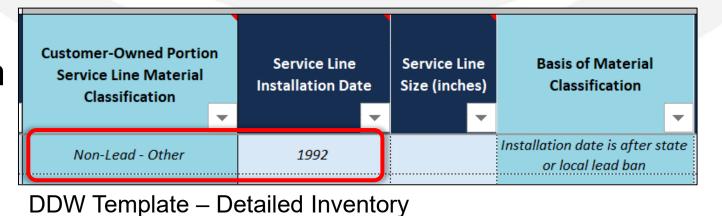
Service line installed after 1/1/1986 CA Lead Ban

- \rightarrow "Non-Lead Other"
- → Year Installed required

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On the customer-owned side

 Property build dates from the county assessor's records can be used as an install date



- Properties built in 1986 or later
 - \rightarrow "Non-Lead Other"

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Verify ALL unknowns (does not require a work plan)

Common methods

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- Visual inspection at the meter box
 - \rightarrow Upstream pipe: System side
 - \rightarrow Downstream pipe: Customer side
- Scratch/magnet tests



A dull, silver-gray color that is easily scratched with a coin. Use a magnet - strong magnets will not cling to lead pipes.

Galvanized

A dull, silver-gray color. Use a magnet - strong magnets will typically cling to galvanized pipes.

Copper

The color of a copper penny.

Plastic

White, rigid pipe that is joined to water supply piping with a clamp.



Service lines identified based on field inspection

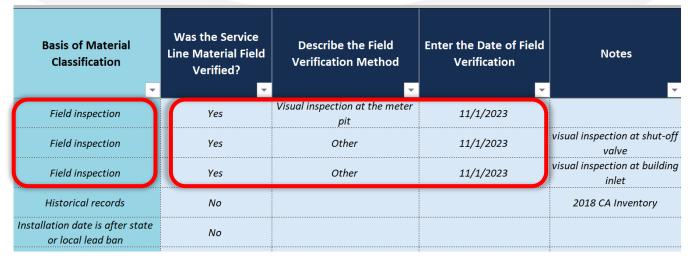
 \rightarrow Field Verified? required

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- \rightarrow Verification Method required
- \rightarrow Verification Date required

Verification Methods

- → Customer self-identification refers to homeowners identifying service lines
- → Water quality sampling is rarely used and NOT the same as tap sampling results



DDW Template – Detailed Inventory

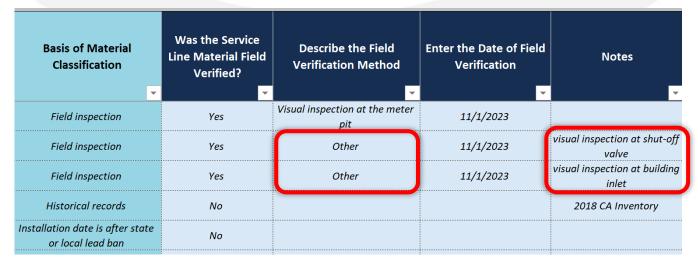


Entering "Other" as Basis of Material Classification or Verification Method

→ Use "Other" if none of the drop-down option apply

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 \rightarrow Explain basis or verification method in Notes column



DDW Template – Detailed Inventory



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Verify a SUBSET of unknowns (requires a work plan)

Interpolation – systems with < 1500 unknowns

- Verify 20% of unknowns
- If all non-lead, remaining unknowns \rightarrow "Non-Lead Other" based on interpolation

Stratified Random Sampling – systems with 1500+ unknowns

- See <u>DDW LSLI Methods</u> to calculate minimum verifications
- If all non-lead, remaining unknowns \rightarrow "Non-Lead Other" based on statistical analysis or predictive models

If you cannot complete the required verifications

- Submitting the inventory with unknowns is OKAY
- However, you must send a public notification of a potential service line containing lead
- Submit completed inventory with all lines accounted for \rightarrow In compliance

Public Notification for Lead, GRR, and Unknown Service Lines

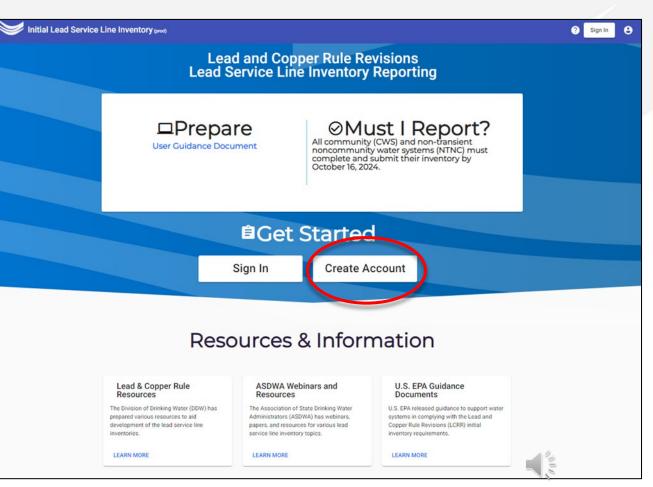
If your inventory contains any lead, galvanized requiring replacement (GRR), or unknown service lines

- You must send a public notification of known or potential service line containing lead to customers served by lead, GRR, and unknown lines
- Initial notification must be sent within 30 days of inventory completion
- Notification must be certified to DDW within 10 days of posting
- Notification must be sent annually until the line is designated non-lead

LSLI Submission Portal

Create a WBKey account to access the portal

- Requires multi-factor authentication (MFA)
- Sign in requires a verification code from a mobile MFA app
- Any MFA app can be used, but we use "Microsoft Authenticator" as an example in our user guidance instructions



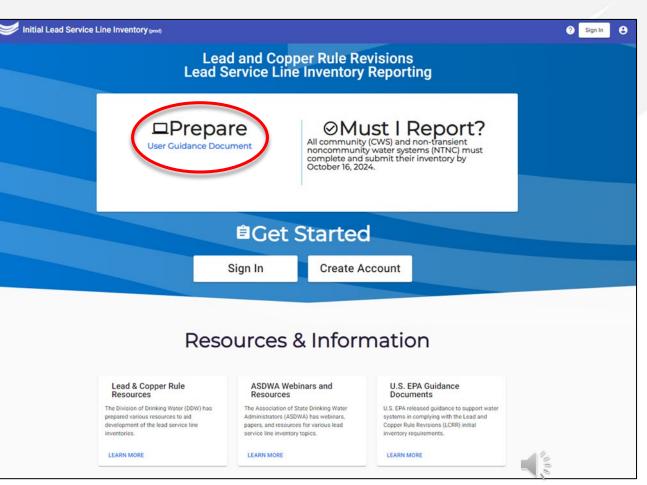
LSLI Submission Portal

See <u>LSLI Portal User</u> <u>Guidance</u> for step-by-step instructions

- Creating an account and setting up MFA
- Using the portal

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- Transferring data from the template or other spreadsheet
- Links to video tutorials



Public Accessibility

Required

- The inventory must be accessible in some way
- Most small systems choose to have a hard copy available in the water system office

If all lines are non-lead

- System can post a non-lead statement instead of the inventory
- Templates available on website
- Please send to LCRR Unit for review

Revision/Approval

After submission

- The LCRR Unit will contact the submitter with revision notes or inventory approval via email
- Remember to post your inventory or non-lead statement
- Remember to send public notifications if needed
- Please continue to update the inventory and field verify service lines during normal operations



LSLI Resources

- Email <u>ddw-lslreports@waterboards.ca.gov</u>
- Website <u>LCR Resources for Water Systems</u>
 - Inventory templates, instructions, and other information
 - Public notification templates
 - Non-lead statement templates
- Submission <u>LSLI Submission Portal</u>
 - LSLI Portal User Guidance Document
- Weekly Virtual Office Hours <u>Jotform Sign-up Link</u>
 - Wednesdays 9am-10am and Thursdays 2pm-3pm
 - Staff can answer questions live