

MoDNR Lead Service Line Inventory



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Lead Service Line Inventory Spreadsheet:




← → ↻ 🔒 dnr.mo.gov/water/business-industry-other-entities/technical-assistance-guidance/lead-service-lines

Lead Service Lines

Coming Soon!

The Missouri Department of Natural Resources is in the process of building dedicated webpages for all things lead service line related. These webpages will include helpful documents for creating a lead service line inventory as well as a lead service line replacement plan. These webpages will also provide links to financial opportunities for financing inventories and replacements with more to come in the future. Documents will be added to these webpages as they become available, so check back occasionally for additional resources.

Lead Service Line Inventory

The U.S. Environmental Protection Agency (EPA) released its  **Guidance for Developing and Maintaining a Service Line Inventory**  on Aug. 4, 2022. This document can also be found on EPA's **Revised Lead and Copper Rule**  webpage. On that webpage is also a link to a recording of EPA's webinar about the guidance and template, held Aug. 10, 2022.



An old lead service line is attached to this water meter.

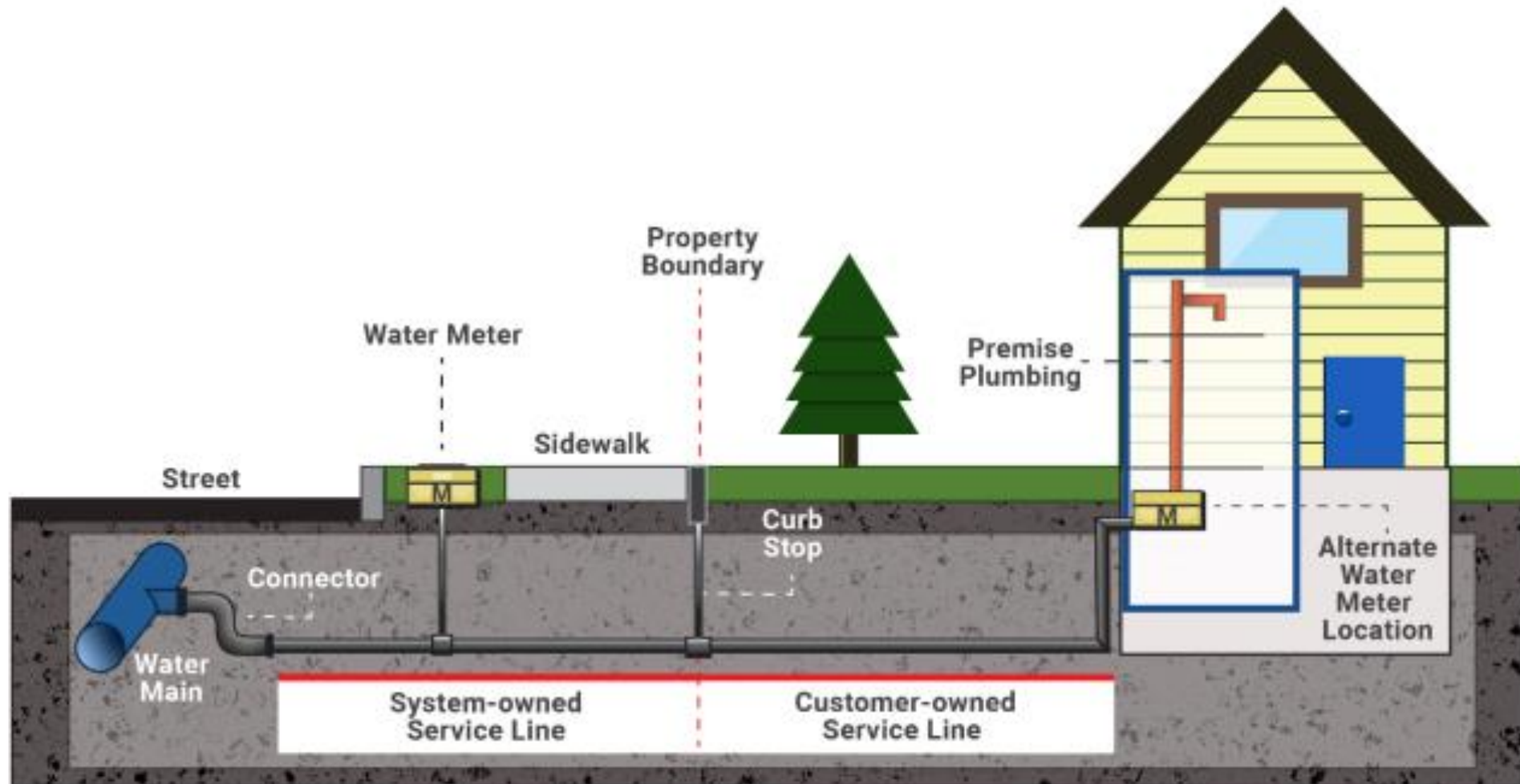
The department developed Lead Service Line Inventory spreadsheets, which are the required reporting form for each public water system. To avoid unneeded or additional inventory efforts, do not use EPA's inventory spreadsheet for reporting to the department. The two spreadsheets provided below are the same, but are different sizes in order for public water systems to use the one best needed for their size. Click on the appropriate link below to download a zipped Microsoft® Excel® file containing the spreadsheet.

- **Small/ Medium System Lead Service Line Inventory (LSLI) spreadsheet** (2 MB)
- **Large System Lead Service Line Inventory (LSLI) spreadsheet** (15 MB)

*These are large files, which may result in a long download time for individuals with slow internet connections. If you have any problems accessing these spreadsheets, please contact the department's Water Protection Program, Public Drinking Water Branch.

EPA Guidance Diagram for Service Lines:

Exhibit 2-2: Example of Service Line Ownership Distinction between the Water System and Customer



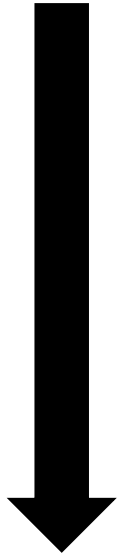
EPA Guidance: Total Category in Inventory

Exhibit 2-3: Classifying Service Line Materials When Ownership is Split According to the LCRR 40 CFR §141.84(a)(4)

System-Owned Portion	Customer-Owned Portion	Classification for Entire Service Line
Lead	Lead	Lead
Lead	Galvanized Requiring Replacement	Lead
Lead	Non-lead	Lead
Lead	Lead Status Unknown	Lead
Non-lead	Lead	Lead
Non-lead and never previously lead	Non-lead, specifically galvanized pipe material	Non-lead
Non-lead	Non-lead, material other than galvanized	Non-lead
Non-lead	Lead Status Unknown	Lead Status Unknown
Non-lead, but system is unable to demonstrate it was not previously Lead	Galvanized Requiring Replacement	Galvanized Requiring Replacement
Lead Status Unknown	Lead	Lead
Lead Status Unknown	Galvanized Requiring Replacement	Galvanized Requiring Replacement
Lead Status Unknown	Non-lead	Lead Status Unknown
Lead Status Unknown	Lead Status Unknown	Lead Status Unknown

MoDNR Lead Service Line Inventory Spreadsheet Tabs

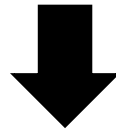
Instruction Page:
Read this first



Primary Data Entry
Tab for LSL Inventory



System Info for
Submission



Field Inspection (Printable Page)
for each Service Line row



Example of how data entry
might look (hypothetically)



Inventory_Instructions


MO_LSLI

Inventory Data Submission

Printout

View_Only_Example_Tables

Inventory Instructions: Tab 1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	 <h2 style="text-align: center;">Instructions: Missouri Public Water Supply System - Lead Service Line Inventory (LSLI) Spreadsheet:</h2>																					
2	Applicability:																					
3	All Community and Non-Transient Non-Community Public Water Systems must complete a lead service line inventory (LSLI) and submit the information for their system using this form. This is required regardless of whether the system has identified the presence of any lead service lines in their distribution or not. Transient Non-Community Public Water Systems are not required to submit a LSLI.																					
4	Deadline:																					
5	Public Water Systems (PWS) must submit their initial LSLI on or before October 16, 2024 . Identifications do not have to be 100% complete at that time, but the system should identify as many service lines as possible as either "Lead", "GRR" (Galvanized Requiring Replacement), "Non-Lead", or "Unknown: Possibly Lead" upon submission. Updated spreadsheets will be required to be submitted to the Department of Natural Resources (Department) annually for systems that monitor on a six month or annual schedule and every three years for systems on a three year monitoring schedule. The spreadsheets must include the most up to date service line materials information for the system. Unknown service lines will be labeled "Unknown: possibly Lead" until properly identified.																					
6	General Guidance for Completing Inventory:																					
7	Each water system's unique 9-digit ID can be found in Drinking Water Watch. It will begin with the prefix "MO" followed by seven numbers (Example: MO1234567). It is referred to as the Federal Public Water System ID# (PWSID#). You will need this ID to complete the survey.																					
8	The legal definition of where a given system's public and private service line begins or ends may vary. Usually, the publicly-owned service line is from the water main to the meter and the privately-owned service line is from the property line or meter to the indoor shutoff valve. Please refer to your system's agreements, laws or ordinances to legally define where each service line ownership changes.																					
9	If multiple service lines are present at the same address location, a unique "Specific System ID" number must be used to distinguish each service line. This will be automatically generated by the State--or the PWS may use their own naming convention.																					
10	Service lines listed as "unknown" are assumed to be Lead unless proven otherwise. In addition to "Lead" or "Non-Lead," systems need to identify the service line material on the public and private side of the service line (Lead, Copper, GRR, PVC, HDPE, PEX, Asbestos-Cement).																					
11	Contract operators or operators for multiple water systems must use a separate spreadsheet for each PWSID. A new copy of the original LSLI Excel document can be saved with the name of the system.																					
12	Instructions for the MO_LSLI Tab:																					
	The "MO_LSLI" tab (blue tab) is the main spreadsheet for inventory information. Systems must provide the requested information for each column with a blue or green highlighted heading for each service line in their system.																					
	<div style="background-color: #f2f2f2; padding: 5px; border: 1px solid #ccc;"> Inventory_Instructions MO_LSLI Inventory Data Submission Printout View_Only_Example_Tables </div>																					

Inventory Instructions: Tab 1

 Blue is a “required” field to manually enter data (you can type or copy/paste)


Enter data you have or put “unknown” until verified? Lead connectors?

 Green is a “required” field with drop down menu option (double left click or copy/paste)

Excel only displays 8 options at a time here—drag the scroll bar “up/down” to see others

 Pink is “optional” field, but needed for “risk tier” calculation of sample sites used.

Additional blank columns are “unlocked” on the far right for system’s personal use.

 Yellow is “locked” fields that auto-calculate based on embedded formulas.

To populate yellow cells, you must enter information in blue, green, and pink columns

Inventory Instructions: Tab 1

Enter one or more identification method used as “1” or “1,3” or “2,7,8” etc.

Table 1: PWS-Owned Service Line ID Method or Information Column V on MO_LSLI (blue tab)	Table 1: Customer-Owned Service Line ID Method or Information Column W on MO_LSLI (blue tab)
1 = Visual Inspection at Meter Pit	1 = Visual Inspection at Meter Pit
2 = Customer Self-Identification	2 = Customer Self-Identification
3 = CCTV Inspection at Curb Box - External	3 = CCTV Inspection at Curb Box - External
4 = CCTV Inspection at Curb Box - Internal	4 = CCTV Inspection at Curb Box - Internal
5 = Mechanical Excavation	5 = Mechanical Excavation
6 = Vacuum Excavation	6 = Vacuum Excavation
7 = Paper Records (>10% Validated Accuracy)	7 = Paper Records (>10% Validated Accuracy)
8 = Digital/Database Records (>10% Validated Accuracy)	8 = Digital/Database Records (>10% Validated Accuracy)
9 = Water Quality Sampling - Targeted	9 = Water Quality Sampling - Targeted
10 = Water Quality Sampling - Flushed	10 = Water Quality Sampling - Flushed
11 = Water Quality Sampling - Sequential	11 = Water Quality Sampling - Sequential
12 = Water Quality Sampling - Other	12 = Water Quality Sampling - Other
13 = Predictive Modeling (Not ID Method)	13 = Predictive Modeling (Not ID Method)
14 = Other	14 = Other

Inventory Instructions: Tab 1

Table 2: Water System Acronym Definitions

PWS = Public Water System

CWS = Community Water System

NTNCWS = Non-Transient Non-Community Water System

TNCWS = Transient Non-Community Water System

LSL = Lead Service Line

LSLI=Lead Service Line Inventory

LSLR = Lead Service Line Replacement

LCR = "Old" Lead & Copper Rule (Rule set that is currently active regarding compliance as of 2022)

LCRR = Lead & Copper Rule Revisions (Rule set that is effective but not compliant as of 2022)

LCRI = Lead & Copper Rule Improvements (If proposed, new rule might replace LCRR before Oct 16, 2024)


SA = Sample Administrator (The person in charge of sampling for the Public Water System)

DO = Designated Operator (The certified operator in charge of the Public Water System)

DNR = MO Department of Natural Resources (The State regulatory agency)

EPA = US Environmental Protection Agency (The Federal regulatory agency)

MO_LSLI Data Entry: Tab 2

	A	B	C	D	E	F	G
1	 MISSOURI DEPARTMENT OF NATURAL RESOURCES						
2	WATER SYSTEM ID NUMBER	SYSTEM SPECIFIC ID	WATER SYSTEM COMMON NAME	SERVICE ADDRESS	ZIPCODE	WATER MAIN MATERIAL	CONNECTOR OR GOOSENECK MATERIAL
3	MO1234567		CACTUS PWS 3				
4	MO1234567		CACTUS PWS 3				
5	MO1234567		CACTUS PWS 3				
6	MO1234567		CACTUS PWS 3				
7	MO1234567		CACTUS PWS 3				
8	MO1234567		CACTUS PWS 3				
9	MO1234567		CACTUS PWS 3				
10	MO1234567		CACTUS PWS 3				
11	MO1234567		CACTUS PWS 3				
12	MO1234567		CACTUS PWS 3				
13	MO1234567		CACTUS PWS 3				
14	MO1234567		CACTUS PWS 3				
15	MO1234567		CACTUS PWS 3				
16	MO1234567		CACTUS PWS 3				
17	MO1234567		CACTUS PWS 3				
18	MO1234567		CACTUS PWS 3				
19	MO1234567		CACTUS PWS 3				
20	MO1234567		CACTUS PWS 3				
21	MO1234567		CACTUS PWS 3				
22	MO1234567		CACTUS PWS 3				
23	MO1234567		CACTUS PWS 3				
24	MO1234567		CACTUS PWS 3				
25	MO1234567		CACTUS PWS 3				
26	MO1234567		CACTUS PWS 3				
27	MO1234567		CACTUS PWS 3				
28	MO1234567		CACTUS PWS 3				

Service Address
Actual street location
address of service line. Not
the billing address that may
be a location other than
service location. Example:
315 Walnut Street, Apt D

[Inventory_Instructions](#) **MO_LSLI** [Inventory Data Submission](#) [Printout](#) [View_Only_Example_Tables](#)



MO_LSLI Data Entry: Tab 2

	H	I	J	K	L	M	N	O	P
1									
2	WAS LEAD EVER UPSTREAM OF THIS SERVICE?	PWS-OWNED SERVICE LINE MATERIAL	WAS PWS-OWNED SERVICE LINE EVER LEAD?	PWS- OWNED SERVICE LINE SIZE	YEAR PWS- OWNED SERVICE LINE INSTALLED	CUSTOMER-OWNED SERVICE LINE MATERIAL	CUSTOMER- OWNED SERVICE LINE SIZE	YEAR CUSTOMER- OWNED SERVICE LINE INSTALLED	BUILDING TYPE
3	Yes	Galvanized	Unknown	2"	1970	Copper	1-1/2"	1970	Single Family
4	No	PVC	No	3"	1990	PVC	3"	1991	Multi Family
5	Yes	Lead	Yes	2"	1980	Galvanized	2"	1980	Single Family
6	Unknown	HDPE	Yes	2"	2010				
7	Yes	PEX	Yes	2"	2008	Lead			
8	Yes	Other-Non-Lead	No	2"	2022	Copper			
9	Yes	Asbestos-Cement	Yes	2"	1956	Galvanized			
10						PVC			
11						HDPE			
12						PEX			
13						Asbestos-Cement			
14						Other-Non-Lead			
15									
16									

Inventory_Instructions MO_LSLI Inventory Data Submission Printout View_Only_Example_Tables

MO_LSLI Data Entry: Tab 2

STRUCTURE - PRIMARY PLUMBING MATERIAL 1	YEAR STRUCTURE PLUMBING INSTALLED	YEAR (RANGE) STRUCTURE PLUMBING MATERIAL INSTALLED	THIS LOCATION WILL BE USED FOR LEAD AND COPPER SAMPLE SITE PLAN?	SOURCE 1: PWS-OWNED SERVICE LINE ID METHOD OR INFO USED (ENTER ONE OR MORE)	SOURCE 2: CUSTOMER-OWNED SERVICE LINE ID METHOD OR INFO USED (ENTER ONE OR MORE)	REPLACE GOOSENECK/PIGTAIL CONNECTOR
Lead	1980	Before 1989	Yes	1,2	7	Yes
Copper Pipe with Lead Solder	1999	Between 1989 and 1-4-2014	No	1,2,4	8,2	Yes
PEX	2002	After 1-4-2014	Unknown	1,8,13	14	Yes
Other Non-Lead	2019	After 1-4-2014	Unknown	1,5,4	1	Yes
Copper Pipe with Lead Solder	1958	Before 1989	Unknown	6,10,11	5	Yes
Galvanized Steel	1997	Between 1989 and 1-4-2014	Unknown	12,1,7	1	Yes
PVC	2015	After 1-4-2014	Unknown			Yes
		Unknown	Yes			Yes
PEX	1987	Before 1989	No			Yes
PVC	2015	After 1-4-2014	No			Yes
Copper	1975	Before 1989	Unknown			Yes
Unknown		Unknown	Yes			Yes
						Yes
Lead						Yes
Copper						Yes
Copper Pipe with Lead Solder						Yes
Galvanized Steel						Yes
PVC						Yes
HDPE						Yes
PEX						Yes
Other Non-Lead						Yes
						Yes


MO_LSLI Data Entry: Tab 2

SOURCE 2: CUSTOMER-OWNED SERVICE LINE ID METHOD OR INFO USED (ENTER ONE OR MORE)	REPLACE GOOSENECK/PIGTAIL CONNECTOR	LSL CATEGORY IN INVENTORY	GRR PRESENT?	RISK TIER: LCR SAMPLE SITE SELECTION	Calc T1 or T2	Calc Type	Calc Range PWS	Calc Range Premise	REQUIRES RESIDENT NOTIFICATION IF LSL DISTURBED	REQUIRES RISK MITIGATION (POU OR PITCHER FILTER)	Service Line Ref Year
7	Yes	GRR	GRR	Tier 3		Single Family	Before 1983	Before 1983	Yes	Yes	1980
8,2	Yes	Non-Lead	No GRR	Tier 2	Yes 2	Multi Family	After 1982	After 1982	Yes	Yes	1999
14	Yes	Lead	GRR	Tier 3		Single Family	Before 1983	After 1982	Yes	Yes	1980
1	Yes	Unknown: Possibly Lead	No GRR	Info Needed Column I, M, L, P, & Q			After 1982	After 1982	Yes	Yes	2010
5	Yes	Unknown: Possibly Lead	No GRR	Info Needed Column I, M, L, P, & Q			Before 1983	Before 1983	Yes	Yes	1958
1	Yes	Unknown: Possibly Lead	No GRR	Info Needed Column I, M, L, P, & Q			After 1982	Before 1983	Yes	Yes	2022
	Yes	Unknown: Possibly Lead	No GRR	Info Needed Column I, M, L, P, & Q			Before 1983	After 1982	Yes	Yes	1956
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Before 1983	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	After 1982	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	After 1982	Yes	Yes	I,L,M,O,R,S
	Yes							After 1982	Yes	Yes	I,L,M,O,R,S
	Yes							After 1982	Yes	Yes	I,L,M,O,R,S
	Yes							After 1982	Yes	Yes	I,L,M,O,R,S
	Yes							Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes							Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes							Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes							Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes	Unknown: Possibly Lead	Possibly GRR	Info Needed Column I, M, L, P, & Q			Info Needed Column L & O	Info Needed Column S	Yes	Yes	I,L,M,O,R,S
	Yes										

Some cells, columns, and tabs are “locked” (password protected) to preserve formulas as well as preserve the format of the Excel spreadsheet overall

When you double click on these locked cells, a warning message will appear. You should have access to all the cells you need to enter information in.

Inventory Data Submission: Tab 3

	A	B
1	 MISSOURI DEPARTMENT OF NATURAL RESOURCES	
2	Water System ID Number:	MO1234567
3	Water System Common Name:	CACTUS PWS 3
4	Collector Name:	John Doe
5	Date LSLI Submitted:	10/15/2024
6	Total # of Full Replacements Since Last Inventory Submission?	25
7	Total # of customer refusals?	10
8		
9		
10		
11		

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Enter this information and save before final submission of LSLI to DNR

Printout: Tab 4

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	MISSOURI DEPARTMENT OF NATURAL RESOURCES																
2																	
3	Data collected by: _____ Date: _____ Title: _____																
4	WATER SYSTEM ID NUMBER		SYSTEM SPECIFIC ID		WATER SYSTEM COMMON NAME				SERVICE ADDRESS				ZIP CODE				
5																	
6																	
7																	
8	WATER MAIN MATERIAL		CONNECTOR OR GOOSENECK MATERIAL		WAS LEAD EVER UPSTREAM OF THIS SERVICE?		PWS-OWNED SERVICE LINE MATERIAL		WAS PWS-OWNED SERVICE LINE EVER LEAD?		PWS-OWNED SERVICE LINE SIZE		YEAR PWS-OWNED SERVICE LINE INSTALLED		Comments		
9																	
10	PVC		Lead		Yes		Lead		Yes		3/8" 3"						
11	DIP		Copper		No		Copper		No		1/2" 4"						
12	CIP		Polyethylene		Unknown		Galvanized		Unknown		5/8" 6"						
13	Leaded Joint CIP		Other-Non-Lead				PVC				3/4" 8"						
14	HDPE		Unknown				HDPE				1" 10"						
15	PEX						PEX				1-1/4" 12"						
16	Asbestos-Cement						Asbestos-Cement				1-1/2" 14"						
17	Other						Other-Non-Lead				1-3/4" 16"						
18							Unknown				2"						
19	CUSTOMER-OWNED SERVICE LINE MATERIAL		CUSTOMER-OWNED SERVICE LINE SIZE		YEAR CUSTOMER-OWNED SERVICE LINE INSTALLED		BUILDING TYPE		POINT-OF-ENTRY OR POINT-OF-USE TREATMENT PRESENT?		STRUCTURE - PRIMARY PLUMBING MATERIAL		YEAR STRUCTURE PLUMBING INSTALLED				
20																	
21	Lead		3/8" 3"				Single Family		Yes		Lead						
22	Copper		1/2" 4"				Multi Family		No		Copper						
23	Galvanized		5/8" 6"				School/Childcare		Unknown		Copper Pipe with Lead Solder						
24	PVC		3/4" 8"				Business				Galvanized Steel						
25	HDPE		1" 10"				Hospital/Medical Care Facility				PVC						
26	PEX		1-1/4" 12"				Nursing Home				HDPE						
27	Asbestos-Cement		1-1/2" 14"								PEX						
28	Other-Non-Lead		1-3/4" 16"								Other Non-Lead						
29	Unknown		2"								Unknown						
30	YEAR (RANGE) STRUCTURE PLUMBING MATERIAL INSTALLED		THIS LOCATION WILL BE USED FOR LEAD AND COPPER SAMPLE SITE PLAN?		SOURCE 1: PWS SERVICE LINE ID METHOD OR INFORMATION USED (If multiple methods used--mark multiple options below)				SOURCE 2: CUSTOMER SERVICE LINE ID METHOD OR INFORMATION USED (If multiple methods used--mark multiple options below)								
31																	
32																	
33	Before 1989		Yes		1 = Visual Inspection 9 = Water Quality Sampling - Targeted				1 = Visual Inspection 9 = Water Quality Sampling - Targeted								
34	Between 1989 and 1-4-2014		No		2 = Customer Inspection 10 = Water Quality Sampling - Flushed				2 = Customer Inspection 10 = Water Quality Sampling - Flushed								
35	After 1-4-2014		Unknown		3 = Curb Box - External 11 = Water Quality Sample - Sequential				3 = Curb Box - External 11 = Water Quality Sample - Sequential								
36	Unknown				4 = Curb Box - Internal 12 = Water Quality Sample - Other				4 = Curb Box - Internal 12 = Water Quality Sample - Other								
37					5 = Mechanical Excavation 13 = Predictive Modeling (Not ID method)				5 = Mechanical Excavation 13 = Predictive Modeling (Not ID method)								
38					6 = Vacuum Excavation 14 = Other				6 = Vacuum Excavation 14 = Other								
39					7 = Paper Records				7 = Paper Records								
40					8 = Digital/Database				8 = Digital/Database								
41																	
42																	

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Data collected by: _____ Date: _____ Title: _____


WATER SYSTEM ID NUMBER	SYSTEM SPECIFIC ID	WATER SYSTEM COMMON NAME	SERVICE ADDRESS	ZIPCODE

WATER MAIN MATERIAL	CONNECTOR OR GOOSENECK MATERIAL	WAS LEAD EVER UPSTREAM OF THIS SERVICE?	PWS-OWNED SERVICE LINE MATERIAL	WAS PWS-OWNED SERVICE LINE EVER LEAD?	PWS-OWNED SERVICE LINE SIZE		YEAR PWS-OWNED SERVICE LINE INSTALLED	Comments
PVC	Lead	Yes	Lead	Yes	3/8"	3"		
DIP	Copper	No	Copper	No	1/2"	4"		
CIP	Polyethylene	Unknown	Galvanized	Unknown	5/8"	6"		
Leaded Joint CIP	Other-Non-Lead		PVC		3/4"	8"		
HDPE	Unknown		HDPE		1"	10"		
PEX			PEX		1-1/4"	12"		
Asbestos-Cement			Asbestos-Cement		1-1/2"	14"		
Other			Other-Non-Lead		1-3/4"	16"		
			Unknown		2"			

CUSTOMER-OWNED SERVICE LINE MATERIAL	CUSTOMER-OWNED SERVICE LINE SIZE		YEAR CUSTOMER-OWNED SERVICE LINE INSTALLED	BUILDING TYPE	POINT-OF-ENTRY OR POINT-OF-USE TREATMENT PRESENT?	STRUCTURE - PRIMARY PLUMBING MATERIAL	YEAR STRUCTURE PLUMBING INSTALLED
Lead	3/8"	3"		Single Family	Yes	Lead	
Copper	1/2"	4"		Multi Family	No	Copper	
Galvanized	5/8"	6"		School/Childcare	Unknown	Copper Pipe with Lead Solder	
PVC	3/4"	8"		Business		Galvanized Steel	
HDPE	1"	10"		Hospital/Medical Care Facility		PVC	
PEX	1-1/4"	12"		Nursing Home		HDPE	
Asbestos-Cement	1-1/2"	14"				PEX	
Other-Non-Lead	1-3/4"	16"				Other Non-Lead	
Unknown	2"					Unknown	

YEAR (RANGE) STRUCTURE PLUMBING MATERIAL INSTALLED	THIS LOCATION WILL BE USED FOR LEAD AND COPPER SAMPLE SITE PLAN?	SOURCE 1: PWS SERVICE LINE ID METHOD OR INFORMATION USED (If multiple methods used--mark multiple options below)		SOURCE 2: CUSTOMER SERVICE LINE ID METHOD OR INFORMATION USED (If multiple methods used--mark multiple options below)	
Before 1989	Yes	1 = Visual Inspection	9 = Water Quality Sampling - Targeted	1 = Visual Inspection	9 = Water Quality Sampling - Targeted
Between 1989 and 1-4-2014	No	2 = Customer Inspection	10 = Water Quality Sampling - Flushed	2 = Customer Inspection	10 = Water Quality Sampling - Flushed
After 1-4-2014	Unknown	3 = Curb Box - External	11 = Water Quality Sample - Sequential	3 = Curb Box - External	11 = Water Quality Sample - Sequential
Unknown		4 = Curb Box - Internal	12 = Water Quality Sample - Other	4 = Curb Box - Internal	12 = Water Quality Sample - Other
		5 = Mechanical Excavation	13 = Predictive Modeling (Not ID method)	5 = Mechanical Excavation	13 = Predictive Modeling (Not ID method)
		6 = Vacuum Excavation	14 = Other	6 = Vacuum Excavation	14 = Other
		7 = Paper Records		7 = Paper Records	
		8 = Digital/Database		8 = Digital/Database	

View Only Example Tables: Tab 5

	A	B	C	D	E	F	G	H
1		MISSOURI DEPARTMENT OF NATURAL RESOURCES						
2	This Page is View Only Example Sheet			This Page is View Only Example Sheet			This Page is View	
3	WATER SYSTEM ID NUMBER	SYSTEM SPECIFIC ID	WATER SYSTEM COMMON NAME	SERVICE ADDRESS	ZIPCODE	WATER MAIN MATERIAL	CONNECTOR OR GOOSENECK MATERIAL	WAS LEAD EVER UPSTREAM OF THIS SYSTEM?
4	MO1234567	#987654321?	Jefferson City PWS	315 Walnut Street, Apt D	65101	PVC	Lead	Yes
5	MO1234567	#987654321?	Jefferson City PWS	123 Chestnut Avenue	65109	DIP	Copper	No
6	MO1234567	#987654321?	Jefferson City PWS	944 Backerstreet	65101	CIP	Polyethylene	Unknown
7	MO1234567	#987654321?	Jefferson City PWS	111 South Country Road	65109	Leaded Joint CIP	Other-Non-Lead	
8	MO1234567	#987654321?	Jefferson City PWS	212 County Road 567	65109	HDPE	Unknown	
9	MO1234567	#987654321?	Jefferson City PWS	1441 Elm Street	65101	PEX		
10	MO1234567	#987654321?	Jefferson City PWS	1890 Main Street	65109	Asbestos-Cement		
11	MO1234567	#987654321?	Jefferson City PWS	4567 East Avenue	65101	Other		
12	MO1234567	#987654321?	Jefferson City PWS	987 Mockingbird Lane	65109			
13	MO1234567	#987654321?	Jefferson City PWS	7584 Johnson Court Road	65109			
14	MO1234567	#987654321?	Jefferson City PWS	3432 Blackberry Drive	65109			
15	MO1234567	#987654321?	Jefferson City PWS	6755 Turtle Dove Park	65101			
16	MO1234567	#987654321?	Jefferson City PWS	9877 Washington Avenue	65101			
17	MO1234567	#987654321?	Jefferson City PWS	932 Morrison Road	65109			
18	"	"	"	"				
19	"	"	"	"				
20	"	"	"	"				
21	"	"	"	"				
22	"	"	"	"				
23	"	"	"	"				

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	I	J	K	L	M	N	O	P	Q	R	S
1											
2	View Only Example Sheet			This Page is View Only Example Sheet					This Page is View Only		
3	PWS-OWNED SERVICE LINE MATERIAL	WAS PWS-OWNED SERVICE LINE EVER LEAD?	PWS- OWNED SERVICE LINE SIZE	YEAR PWS- OWNED SERVICE LINE INSTALLED	PRIVATE SIDE SERVICE LINE MATERIAL	PRIVATE SIDE SERVICE LINE SIZE	YEAR PRIVATE SIDE SERVICE LINE INSTALLED	BUILDING TYPE	POINT-OF-ENTRY OR POINT-OF-USE TREATEMENT PRESENT?	STRUCTURE - PRIMARY PLUMBING MATERIAL 1	YEAR STRUCTURE PLUMBING INSTALLED
4	Lead	Yes	3/8"	1967	Lead	3/8"	1984	Single Family	Yes	Lead	
5	Copper	No	1/2"	Unknown	Copper	1/2"	Unknown	Multi Family	No	Copper	
6	Galvanized	Unknown	5/8"		Galvanized	5/8"		School/Childcare	Unknown	Copper Pipe with Lead Solder	
7	PVC		3/4"		PVC	3/4"		Business		Galvanized Steel	
8	HDPE		1"		HDPE	1"		Hospital/Medical Care Facility		PVC	
9	PEX		1-1/4"		PEX	1-1/4"		Nursing Home		HDPE	
10	Asbestos-Cement		1-1/2"		Asbestos-Cement	1-1/2"				PEX	
11	Other-Non-Lead		1-3/4"		Other-Non-Lead	1-3/4"				Other Non-Lead	
12	Unknown		2"		Unknown	2"				Unknown	
13			3"			3"					
14			4"			4"					
15			6"			6"					
16			8"			8"					
17			10"			10"					
18			12"			12"					
19			14"			14"					
20			16"			16"					
21											
22											
23											

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	R	S	T	U	V	W
1						
2	This Page is View Only Example Sheet					
3	STRUCTURE - PRIMARY PLUMBING MATERIAL 1	YEAR STRUCTURE PLUMBING INSTALLED	YEAR (RANGE) STRUCTURE PLUMBING MATERIAL INSTALLED	THIS LOCATION WILL BE USED FOR LEAD AND COPPER SAMPLE SITE PLAN?	SOURCE 1: PWS SERVICE LINE ID METHOD OR INFORMATION USED	SOURCE 2: PRIVATE SERVICE LINE ID METHOD OR INFORMATION USED
4	Lead		Before 1989	Yes	1,3,8,14	1,5
5	Copper		Between 1989 and 1-4-2014	No		
6	Copper Pipe with Lead Solder		After 1-4-2014	Unknown		
7	Galvanized Steel		Unknown			
8	PVC					
9	HDPE					
10	PEX					
11	Other Non-Lead					
12	Unknown					
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

Table 1: PWS-Owned Service Line ID Method or Information	Table 1: Customer-Owned Service Line ID Method or Information
1 = Visual Inspection at Meter Pit	1 = Visual Inspection at Meter Pit
2 = Customer Self-Identification	2 = Customer Self-Identification
3 = CCTV Inspection at Curb Box - External	3 = CCTV Inspection at Curb Box - External
4 = CCTV Inspection at Curb Box - Internal	4 = CCTV Inspection at Curb Box - Internal
5 = Mechanical Excavation	5 = Mechanical Excavation
6 = Vacuum Excavation	6 = Vacuum Excavation
7 = Paper Records (>10% Validated Accuracy)	7 = Paper Records (>10% Validated Accuracy)
8 = Digital/Database Records (>10% Validated)	8 = Digital/Database Records (>10% Validated)
9 = Water Quality Sampling - Targeted	9 = Water Quality Sampling - Targeted
10 = Water Quality Sampling - Flushed	10 = Water Quality Sampling - Flushed
11 = Water Quality Sampling - Sequential	11 = Water Quality Sampling - Sequential
12 = Water Quality Sampling - Other	12 = Water Quality Sampling - Other
13 = Predictive Modeling (Not ID Method)	13 = Predictive Modeling (Not ID Method)
14 = Other	14 = Other

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View Only Example Tables: Tab 5

	AI	AJ	AK	AL	AM	AN	AO
1							
2	<div> <div>ly Examp</div> <div>This Page is View Only Example Sheet</div> </div>						
3	Ref 2	Ref 3	Service Line Ref Year	PWSID	Name	ADDITIONAL COMMENTS	
4	1983	1	1960	MO5031436	10 4 WATER SYSTEM	Family has water softener	
5				MO5231809	3V CORP		
6				MO3190771	5 81 MOTEL & CAMPGROUND		
7				MO6048200	A&H COUNTRY ESTATES		
8				MO5252577	ABC WATER ASSN		
9				MO5048082	ACRES OF SHADE MHP		
10				MO2024000	ADAIR COUNTY PWSD 1		
11				MO1010001	ADRIAN PWS		
12				MO4010002	ADVANCE PWS		
13				MO5172802	AGAPE LAND MANAGEMENT LLC		
14				MO5031435	AIRPORT HOMEOWNERS ASSN INC		
15				MO5238288	AIRPORT VILLAGE MHP		
16				MO5180614	AJINOMOTO WINDSOR		
17				MO5010004	ALBA PWS		
18				MO1010006	ALBANY PWS		
19				MO6040116	ALLEN ACRES		
20				MO1010009	ALMA PWS		
21				MO3048125	ALTA VISTA MOBILE VILLA		
22				MO1010010	ALTAMONT PWS		
23				MO4010011	ALTENBURG PWS		

History of Lead Reduction Acts in the State of Missouri:

- June 19, 1986: Safe Drinking Water Act (SDWA) Lead Ban
- 1988 Lead Contamination Control Act (LCCA) enacted by Congress to protect schools/childcare
- January 1, 1989: Missouri Lead Ban effective date.
 - 100% Lead water pipes reduced to 8% & 50% Lead solder reduced to 0.2% for plumbing.
 - “Lead free” pipes & fixtures containing up to 8% Lead were still classified as “non-Lead”
- 1991 original Lead & Copper Rule (LCR) becomes effective as a “Primary Drinking Water Regulation.”
- August 6, 1998 plumbing fixtures that are not “Lead free” were banned from sale in USA
- 2011 Reduction of Lead in Drinking Water Act (RLDWA) effective January 4, 2014
 - Amends 1986 SDWA to define “Lead free” water pipes and fittings $\leq 0.25\%$ Lead (instead of 8% Lead)

Other Lead Bans:

1978-Federal regulation banning Lead paint.

1991-Lead & Copper Rule made effective for public drinking water systems.

1995 ban on Lead solder in food cans.

1996-Leaded gasoline is banned for ground-based vehicles

History of LCRR:

January 15, 2021 – “Lead & Copper Rule Revisions” (LCRR) published in Federal Registrar "86 FR 4198" as a “New Primary Drinking Water Regulation”

January 20, 2021 – Executive Order 13990 delays “effective date” (Presidential directive)

March 12, 2021 – EPA ruled to delay effective date until June 17, 2021 for public comment

April-August 2021 – EPA engagement for public input and received >80,000 comments

On June 16, 2021 – EPA decided new “effective date” of LCRR is December 16, 2021 and new “compliance date” would be October 16, 2024

December 16, 2021 – LCRR did become “effective” on this date

December 17, 2021 – EPA announced intention to propose “Lead & Copper Rule Improvements” (LCRI) to replace LCRR before October 16, 2024 compliance date?

August 4, 2022 – EPA Federal Guidance for LSL Inventory published (>160 pages)

September 12, 2022 – LSL Inventory Excel Spreadsheet published on MO DNR webpage

History of LSLI Guidance & Submission Deadline:

August 4, 2022 – EPA Federal Guidance for LSL Inventory published (>160 pages)

September 12, 2022 – LSL Inventory Excel Spreadsheet published on MO DNR webpage (other state guidance documents have been added as well)

October 16, 2024 – Deadline to submit “Initial” LSLI. Does not have to be 100% complete. Systems should identify what they can—and label remaining as “Unknown: Possibly Lead.” Need to know total number of service lines in the system, #replacements, & #refusals? Regardless of any rule changes—the initial LSLI will be due by October 16, 2024.

Systems will submit updated LSLI spreadsheet on a 1 or 3 year bases to MoDNR.

Only one rule can be “active” for compliance at any given time, we will continue sampling under the old LCR until a new rule set “compliance date” is reached.

Questions?

Systems will have years of time to complete their inventory

They should conduct LSLR at the same time as on-sight inspections

Long term goal is to “get the Lead out”

Education and communication with customers is key

Do not leave LSL in the ground once they are disconnected—remove from ground

Use paper and digital records as a starting point—then, validate in the field

Predictive Modeling and age of building may be indicators of possible LSL?

Using a variety of ID methods is best—some methods have limitations.