## FAQs Initial Lead Service Line Replacement

## Office of Drinking Water

- 1. Who must prepare a lead service line (LSL) replacement plan under the Lead and Copper Rule Revisions? All community and nontransient noncommunity (NTNC) waterworks with one or more lead, galvanized requiring replacement, or lead status unknown service lines; however, the proposed Lead and Copper Rule Improvements (LCRI) rolls back the requirement for a lead service line replacement plan until the compliance date of the LCRI, likely in 2027. Virginia waterworks obtaining funding from the Drinking Water State Revolving Fund (DWSRF) for lead service line replacement need to complete a replacement plan.
- 2. When must the LSL replacement plan be submitted? With the LCRI, the requirement to submit the plan is pushed back until the compliance date, likely in 2027. Waterworks obtaining DWSRF funding will submit their plan on a schedule determined by the DWSRF.
- **3.** What is included in the LSL replacement plan? The ODW template covers the following required plan elements, including a description of:
  - A strategy for determining the composition of lead status unknown service lines in the waterworks' inventory;
  - A procedure for conducting full LSL replacement;
  - A strategy for informing customers before a full or partial LSL replacement;
  - For waterworks that serve more than 10,000 persons, an LSL replacement goal rate recommended by the waterworks in the event of a lead trigger level exceedance;
  - A procedure for customers to flush service lines and premise plumbing of particulate lead;
  - An LSL replacement prioritization strategy based on factors including but not limited to the targeting of known LSLs, and LSL replacement for disadvantaged consumers and populations most sensitive to the effects of lead; and
  - A funding strategy for conducting LSL replacements which considers ways to accommodate customers that are unable to pay to replace the portion of the service line they own.
- 4. What about lead goosenecks, pigtails, or connectors? A waterworks must replace any lead gooseneck, pigtail, or connector it owns when encountered during planned or unplanned infrastructure work after the compliance date. The waterworks must offer to replace a customerowned lead gooseneck, pigtail, or connector; however, the waterworks is not required to bear the cost of replacement of the customer-owned parts. The waterworks is not required to replace a customer-owned lead gooseneck, pigtail, or connector if the customer objects to its replacement.
- 5. Does a replacement of a lead gooseneck, pigtail or connector count toward an LSL replacement goal or mandatory LSL replacement? No, a lead gooseneck, pigtail or connector, by itself does not constitute an LSL and does not count as an LSL replaced.
- 6. What is a partial LSL replacement? This means replacement of any portion of an LSL or galvanized service line requiring replacement that leaves in service any length of LSL or galvanized service line requiring replacement upon completion of the work.
- 7. What is the advance notification requirement for a planned partial LSL replacement? The waterworks must provide notice to the owner of the affected service line, or the owner's authorized agent, as well as non-owner resident(s) served by the affected service line at least 45 days prior to the replacement. The notice must explain that the waterworks will replace the portion of the line it owns and offer to replace the portion of the service line not owned by the waterworks.

- 8. What is the advance notification requirement for a full LSL replacement? The Lead and Copper Rule does not require advance notification for full LSL replacement; however, in practice, waterworks and their contractors likely will obtain permission to conduct work on private property and schedule the work in advance. In addition, the waterworks must provide notice to the owner of the service line, or the owner's authorized agent, as well as non-owner resident(s) served by the affected service line within 24 hours of completion of the replacement. The notification must explain that consumers may experience a temporary increase of lead levels in their drinking water, information about health effects of lead, and actions that consumers can take to minimize their exposure to lead in drinking water.
- 9. What are lead mitigation strategies? Lead mitigation strategies include:
  - In advance of returning the service line to service, provide notice to the consumer that they may experience a temporary increase of lead levels.
  - In advance of returning the service line to service, provide information to the consumer about service line flushing.
  - Provide the consumer with a pitcher filter or point of use device, six months of replacement cartridges, and instruction for use.
  - Offer to the consumer to take a follow up tap sample between three months and six months after service line replacement and provide the results to the consumer.
- **10. When are lead mitigation strategies required?** Lead mitigation strategies are triggered upon a full or partial replacement of an LSL, including an emergency repair.
- **11. What about sampling following a partial or full LSL replacement?** The waterworks must offer to collect a follow up tap sample between three months and six months after completion of any partial or full replacement of an LSL. The waterworks must provide the results of the sample no later than 30 days after the waterworks learns of the monitoring result, except if the sample exceeds 15  $\mu$ g/L, then provide as soon as practicable but no later than three calendar days after the waterworks learns of the result. Provide a consumer notice consistent with the content requirements for notification of lead tap sample results.
- **12. What if a customer replaces their portion of an LSL?** When a waterworks is notified by the customer that the customer's portion of the LSL will be replaced, the waterworks must make a good faith effort to coordinate simultaneous replacement of its portion of the service line. If simultaneous replacement cannot be conducted, the waterworks must replace its portion as soon as practicable but no later than 45 days from the date the customer replaces its portion of the LSL. The waterworks must provide notification and lead risk mitigation as described above.
- **13.** What's required if there is a disturbance to an individual service line? After a lead, galvanized requiring replacement, or lead status unknown service line is shut off or bypassed, such as by operating a valve on a service line or meter setter, and without conducting a partial or full LSL replacement, the waterworks must provide the persons served by the waterworks at the service connection with information about the potential for elevated lead levels in drinking water as a result of the disturbance as well as instructions for a flushing procedure to remove particulate lead before returning the service line to service.
- 14. What's required after replacement of an inline water meter, a water meter setter, or gooseneck, pigtail, or connector? The waterworks must provide the person served by the waterworks at the service connection with information about the potential for elevated lead levels in drinking water as

a result of the disturbance, public education materials, a pitcher filter or point-of-use device, instructions to use the filter, and six months of filter replacement cartridges.

- **15. What are the applicable standards for pitcher filters and point-of-use devices?** Pitcher filters and point-of-use filters and filter cartridges must be certified to NSF/ANSI Standard 53 by an American National Standards Institute accredited certifier to reduce lead.
- **16.** How should a waterworks rank the methods used to prioritize LSL replacements in replacement plan template section 5a when the method is not used? Rank only the items used with numbers and indicate "NA" for items not used.
- **17.** Is the ordinance mentioned in section 5c of the replacement plan template required? Creating an ordinance at the local level is one approach to requiring replacement of LSLs on the private side. The ordinance is not required.
- 18. What's the basis for the utility flushing protocol and customer flushing protocols in the templates attached to the LSL Replacement Plan Template and why are they so different?
  - The utility flushing protocol in Appendix A is based on AWWA C810-17 section 4.4.1 and is based on a high rate of flushing achieved when the water meter is replaced with a temporary straight pipe and the premise plumbing is flushed through a hose bib.
  - The customer flushing protocol is based on AWWA C810-17 section 4.4.2.1 and calls for 30 minutes of flushing every two weeks for three months.
  - A daily 5-minute flush is recommended is based on AWWA C810-17 section 4.4.2.2 and is intended to replace the water in the premise plumbing with fresh water from the water main.
  - The customer flushing protocols are repeated based on the premise that some leadcontaining sediment remains present in the premise plumbing after the initial LSL replacement and utility flushing.
- **19. How should waterworks owners submit the LSL Replacement Plan to ODW?** Waterworks should submit their lead service line replacement plan through the SWIFT Submittals portal under "Files & Reports" menu.

This FAQ document does not replace or supersede the requirements of the EPA Lead and Copper Rule or guidance published by the EPA. You may find more information on the requirements at 40 CFR § 141.84.