

Written Statement for Non-Lead Initial Inventories Systems using Stratified Random Sampling

The Long Beach Utilities Department (LBUD) has completed the initial lead service line inventory required by U.S. EPA's Lead and Copper Rule Revisions. The deadline for the initial inventories is October 16, 2024.

Through completing a historical records review and field investigations, LBUD has determined it has no lead or galvanized requiring replacement service lines in its distribution system. This includes any privately-owned or customer-owned service lines.

LBUD reviewed all applicable sources of information, including

- All construction and plumbing codes, permits, and existing records or other documentation which indicates the service line materials;
- All water system records, including distribution system maps and drawings, historical records on each service connection, meter installation records, historical capital improvement or master plans, and standard operating procedures;
- All inspections and records of the distribution system that indicate service line material, including inspections conducted during the course of normal operations (e.g., checking service line materials when reading water meters or performing maintenance activities); and
- All previous service line or meter replacements were conducted.

In addition to reviewing the above sources of information, LBUD used an alternative method to develop the inventory that was approved by the State Water Resources Control Board Division of Drinking Water on a case-by-case basis.

LBUD used stratified random sampling to develop the initial inventory. Stratified random sampling involves physically verifying a subset of randomly selected service lines in the distribution system. That subset is stratified or divided into groups based on certain characteristics (e.g., years the service lines were installed). Stratification allows for a sample or subset of service lines to be more representative of the service lines in the distribution system.

After investigating the subset of service lines, if no lead or galvanized requiring replacement service lines are discovered, the remaining service lines may be assumed non-lead with a certain level of confidence. LBUD verified 4,739 service lines, and the service lines were verified non-lead. Specifically, copper dominates the distribution system, while plastic, galvanized, and other non-lead materials all collectively account for a small portion of the system. No lead or galvanized requiring replacement service lines were identified. All service lines with year built before 1892, which run the highest risk of having lead service lines, were verified non-lead.

DDW-LCRR Unit
Non-Lead Written Statement – Stratified Random Sampling

LBUD continues to document service line material information obtained from normal operations, such as service line maintenance or water meter readings, after October 2024 and will update the initial inventory accordingly.