



Drinking Water Service Line Materials Inventory, Amendment No. 1

Authorizing a \$2,063,294.00 professional, specialized or technical services contract Amendment No. 1 to Contract No. 9741 with AECOM Technical Services, Inc., for the Drinking Water Service Line Materials Inventory project for a total contract amount of \$3,842,294.00.

October 22, 2024

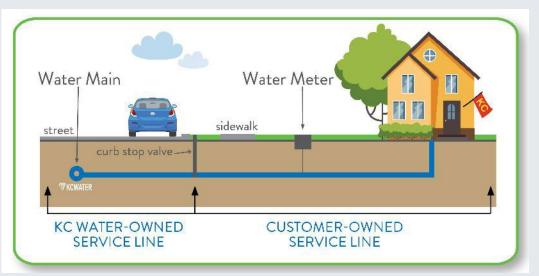
Transportation, Infrastructure & Operations Committee





Background

- In December of 2021, the EPA updated rules for drinking water.
- Every water utility in the country is required to determine the materials that make up drinking water **service lines**.





Initial Service Line Inventory
Key Dates

Submit Initial Inventory to Regulatory Agency

Oct 16, 2024

Publish Online
Map for
Customers

Oct 16, 2024

Customer Notification Letters

Nov 15, 2024



Results of the Initial Inventory

Historical Records reviewed: 180,000+ Service lines identified:

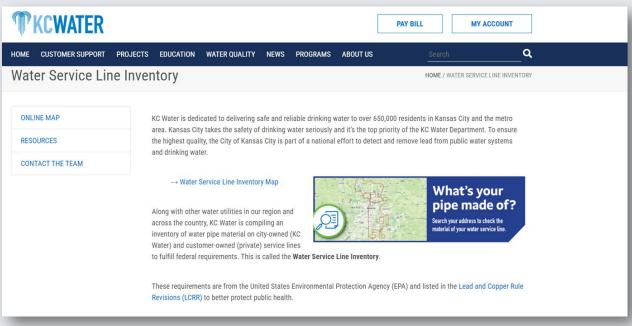
Non-lead	127,194
Galvanized	23,164
Unknown	27,659
Lead	0
TOTAL	178,017





Website

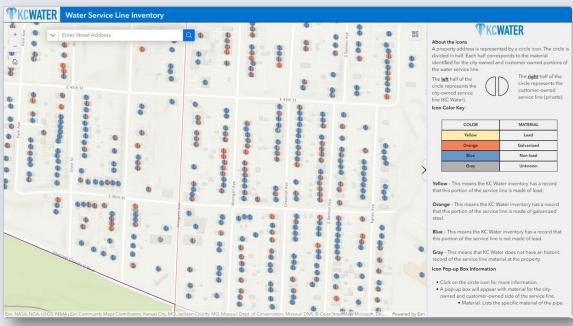
Program Information, Education, Online Map





Online Map

Allow customers to look up their service line findings – City Wide





ORDINANCE NO. 240913 Next step: Notification Letters (Nov. 15, 2024)

- To all consumers with unknown and galvanized lines
- 60,000+ letters
- Translations provided on website

TKCWATER Service Line Inventory

The Environmental Protection Agency, under 40 Code of Federal Regulations § 141.84, requires all public water distribution systems in the United States to develop an inventory of water service lines – the pipes that connect and provide water from the utilities' water mains to buildings and homes – by October 16, 2024. The inventory includes the material makeup of each service line and may be classified as either non-lead, lead, galvanized or unknown. The goal of the requirement is to identify lead service lines and minimize lead exposure in drinking water. KC Water's inventory is available online at: https://www.kcwater.us/service/lineinventory.

Health Effects of Lead in Drinking Water

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in 10 and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney, or nervous system problems.

Steps to Reduce Lead in Your Drinking Water



Run the cold water tap for two minutes before using it for drinking and cooking. Lead and other metals can dissolve in water when it sits in pipes for a few hours.



Drain your water heater annually. Over time metals, sediment, and bacteria can build up in your water heater.



Remove and clean faucet aerators. Lead particles and sediment can collect in the aerator screen located at the tip of your faucet. Aerators should be replaced once a year and are available at local hardware stores.



Use only cold water for drinking, cooking, and making baby formula. Always use cold tap water, including water used for making ice, beverages, and infant formula. Hot tap

water can cause a greater amount of lead to be released from plumbing and may contain metals and bacteria that build up in the water heater. Boiling water does not remove lead from water.



Replace private lead service pipes and household galvanized plumbing. Replace private lead service pipes with new pipes. When lead is released from lead service pipes and passes through galvanized pipes, lead can collect on the interior corroded walls of this plumbing and release lead in household water. Contact a licensed plumber about replacing household plumbing.



Flush cold water taps after installing new household pipes or fixtures. New plumbing can release metals after installation. Flush cold water taps for five minutes at a high flow rate once a day for three days, especially before using water for drinking or cooking.



Use filtered tap water. If you are pregnant or have children under age six use cold, filtered tap water for drinking and cooking until all lead sources are removed. This includes water used for making infant formula, beverages, and kes. Select a filter certified to meet NSF Standard 53 for lead. The filter package should specifically list the device as certified for removing the contaminant lead. Routinely replace filter cartridges according to the manufacturer's instructions.



ORDINANCE NO. 240913 Next step: Pilot Study (2025)

- Identify best practices to:
 - Confirm accuracy of historical records
 - Identify unknown lines
 - Build support with the public
 - Create foundation for long-term program
- Pilot Test methods before expanding across city
 - Two neighborhoods (est. 400 properties)



Send Constituent Questions Our Way



Project Webpage

https://www.kcwater.us/education/servicelineinventory



Project Team Email

water.servicelineinventory@kcmo.org



Project Hotline

816-513-0150



THANK YOU