

**Western Pulaski County Water District**  
**Lead Service Line Inventory**  
**Action Plan & Goals Summary**  
**December 2022**

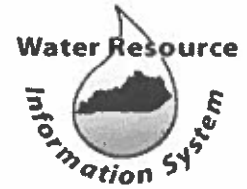
- Compile a complete listing of all meter services within the system and utilize GIS software to develop an interactive map which displays all service locations and allows for pertinent data to be logged for each individual service.
  - *Work period: December 2022 to February 2023 (3 months)*
  
- Perform a comprehensive review of all available records such as historical tap records, PVA property records, water line project records, and any building and/or plumbing permits that the health department may have for service line material and date of installation. All data will be logged into the GIS database, providing a visual map of known and unknown material types for each service location.
  - *Work period: February 2023 to July 2023 (6 months)*
  
- Utilizing GIS map and database, investigate and document all service locations not ruled out through historical records review. The initial action will include a visual inspection of the meter box interior to determine the service line material on both sides of the meter connection. During the visual inspection, photograph(s) and other inspection notes relative to the service line material will be uploaded to the GIS map.
  - *Work period: July 2023 to January 2024 (6 months)*
  
- Utilizing GIS map and database, compile a final list of service locations not ruled out through historical records review or meter box inspection. These remaining services will then be excavated on both sides of the meter to determine the service line material. During the excavation activities, photograph(s) and other inspection notes relative to the service line material will be uploaded to the GIS map. Should the number of service line locations requiring excavation be more than the utility staff can perform while also maintaining daily workload, then outside engineering and contract labor will be required. A consulting engineer will be contracted to develop a scope of work, technical specifications, etc. as required to acquire contract labor to complete the work. Once a contractor is acquired, the contractor will perform excavation and visual inspections under the supervision of the engineer. During the excavation inspections, photograph(s) and other inspection notes relative to the service line material will be uploaded to the GIS map by the engineer.
  - *Work period: January 2024 to August 2024 (8 months)*

- With the lead service line inventory virtually complete, utility personnel will then perform a comprehensive review of the final GIS map and database to ensure that complete and accurate data has been logged for all meter services within the system. The format and organization of the GIS map and database will then be reviewed and optimized, potentially in multiple formats, as may be required for submission with regulatory agencies and/or made available to customers and the general public.
  - *Work period: August 2024 to October 2024 (2 months)*
  
- Submission of complete and final GIS map and database to regulatory agencies as required for compliance with updated Lead and Copper Rule.
  - *Work period: No later than October 16, 2024*
  
- After the utility has completed and submitted the LSL Inventory to regulatory agencies, notification will be made to all customers that LSL Inventory has been completed. In addition, all customers with service found to contain known lead will be contacted directly. Notice will be made via posting it in our office, our annual CCR, on our bills, and our social media. All postings will include a link to the interactive GIS map and database with directions on how the user can navigate to their residence and find detailed information relative to their service line material. In addition, the utility plans to make additional information available to our customers, both at our office and via social media platforms. This will include links to websites and pamphlets with information on what to do if they have a lead service line or suspect they may have a lead service line and information to financial resources for funding the removal of the lead if such resources are available at that time.
  - *Work period: October 2024 to November 2024 (1 months)*
  
- The final step of the lead service line inventory is planning and developing a project or projects to remove all lead service lines which are found on the district side and customer side of the meter up to the house. A consulting engineer will be contracted to develop a scope of work, technical specifications, cost estimates, funding applications, etc.
  - *Work period: November 2024 to March 2025 (4 months)*

**PRELIMINARY COST ESTIMATE  
LEAD SERVICE LINE INVENTORY  
WESTERN PULASKI COUNTY WATER DISTRICT  
DECEMBER 2022**

Item No.	Description	Quantity	Unit Price	Total Cost
1	<b>ADMINISTRATION</b>			
	1A) Indentify existing meters installed prior to Jan. 1, 1988	1 LS	25,000.00	25,000.00
2	<b>PLANNING</b>			
	2A) Establish List of Meters w/Possible Lead/Copper	1 LS	7,500.00	7,500.00
	2B) Develop Map of Meters w/Possible Lead/Copper	1 LS	10,000.00	10,000.00
	2C) Develop Plan to replace Lead/Copper Piping	1 LS	7,500.00	7,500.00
3	<b>ENGINEERING</b>			
	3A) Assist in Developing the Planning	1 LS	50,000.00	50,000.00
4	<b>EQUIPMENT</b>			
	4A) Backhoe	600 HR	100.00	60,000.00
	4B) Skid Steer/Loader	500 HR	80.00	40,000.00
5	<b>MISCELLANEOUS</b>			
	5A) Visually Inspect Meters Pits for Lead/Copper Pipe	605 HR	25.00	15,125.00
	5B) Expose (Labor) outside of Meters for Lead/Copper Pipe	775 HR	45.00	34,875.00
	<b>SUBTOTAL</b>			<b>\$250,000.00</b>
	<b>CONTINGENCY</b>			<b>25,000.00</b>
	<b>TOTAL COST</b>			<b>\$275,000.00</b>

# Drinking Water Project Profile Pre-Application



\* Project Title:

This project is a REVISION of a previous submitted Project Profile. Previously assigned WX #:

Mapping Requirements  
DWSRF Ranking Criteria

## COMPONENTS (continued from Page 9) Water Distribution and Storage (continued)

### Service Line Inventory

Points can be applied in this category for developing a process to inventory service lines, including locating and mapping lead service lines (LSL).

The inventory process can include: (check all that apply): (GIS) - Must have mapping for proposed point. Set TYPE to LSL and PURPOSE to INVENTORY  
Place one point at System Main Office location

- Records review.
- Developing water quality sampling procedures.
- Incorporating processes during day-to-day operations.
- Incorporating vacuum or hydro-excavation procedures and capabilities.
- Establishing clear and effective methods to engage with the customers.
- Implementing statistical analysis methods\*.
- Creating digital/electronic documentation procedures.
- Creating or instituting emerging technologies and methods\*.
- Creating GIS methods for documenting service line materials.
- Distribution of point-of-use devices to reduce lead during LSL inventory. (points Received:10)

\* Notify the DOW of use of emerging technologies and statistical analysis methods.

### Water Line Replacement

This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of asbestos-cement (AC), and/or inadequately sized water lines. (Points Received: 10 for up to first 1000 LF plus 2 pts for each additional 1000 LF)

Total length of line replacement (LF):  (GIS) - Must have mapping for proposed line(s) and set ACTIVITY to REHAB - REPLACE PROBLEM LINES or REHAB - REPLACE LEAD AND/OR ASBESTOS-CEMENT LINES or REHAB - REPLACE UNDERSIZED LINES

In-place or in-situ repair methods will be used in lieu of water line replacement. (GIS) - Must have mapping for proposed line(s) and set ACTIVITY to REHAB - IN-SITU REPAIR  
Total length of of in-place or in-situ repair (LF):

This project replaces lead service lines (Points Received \*) (Points Received: 200)  
Total number of lead service line replacements:   
(GIS) - Must have mapping for proposed point(s). Set TYPE to LSL, STATUS to REHAB, and PURPOSE to REPLACEMENT for each location of LSL replacement.

\*1 up to 100 LSL and/or lead component replacements:  
(Points Received: 200)  
101 to 500 LSL and/or component replacements:  
(Points Received: 210)  
Greater than 500 LSL and/or Component replacements:  
(Points Received: 220)

One or more homeowners have declined lead service line replacement.

Roads Serviced by Line Replacement (use separate sheet if necessary)	
ROAD NAME	LF SERVICED