



**Project Update**  
**Project No. 202200135**  
**Lead and Copper Revisions Rule Program Management**  
**Contract MP-091 - Arcadis**  
**February 2023**

**Summary**

<b>Consultant</b>	Arcadis of New York	<b>Contractor (Test Pits)</b>	TBD
<b>Date of Award</b>	June 6, 2022	<b>Date of Award</b>	TBD
<b>Completion Date</b>	October 1, 2023 (on time)	<b>Completion Date</b>	TBD
<b>Consultant Fee</b>	\$910,760.00	<b>Contract Value</b>	TBD
<b>Spent to Date</b>	\$175,116 (19% of fee)	<b>Spent to Date</b>	TBD
<b>Funding</b>	DWSRF Application September 2022 (inventory) – no word to date on possible award		
<b>Schedule Update</b>	Lead Service Line Inventory due date October 16, 2024. ECWA is scheduled to receive the first draft version of the inventory from Arcadis in October 2023.		
<b>Board Action Items</b>	<ul style="list-style-type: none"> <li>- E3 Communications is developing a branding program under the Public Education, Notification, and Outreach Program Task. Board input on logos, slogans, etc. will be needed. A decision will be required within the next month.</li> <li>- Board input/approval will be required on the source(s) of funding for lead service line replacements. Options are currently being developed/evaluated. Decision timeframe to be determined.</li> <li>- Board input/approval will be required on ECWA policy regarding who will be responsible for the replacement and cost of the portion of the service line on the customer (private) portion of the service line. Options are currently being developed/evaluated. Decision timeframe to be determined.</li> </ul>		

**Scope of Work**

This project consists of the development and implementation of a compliance program for EPA’s Lead and Copper Rule Revisions (LCRR) with Arcadis effectively acting as the Program Manager. The Program Manager will take on the administrative role of coordinating the Authority’s response to the LCRR and assist the Authority with the implementation of one or more program elements including the Lead Service Line Inventory (LSLI), Lead Service Line Replacement (LSLR), Sample Monitoring Program, and Public Notification/Education/Outreach Program (PENOP).

**Completed Work**

*LCRR Work Plan*

Arcadis’ first task was to complete a LCRR Work Plan to define how the project will be executed, monitored, and controlled by describing the management of the scope, schedule, resources, data, information, and quality. The Work Plan will be periodically updated as the project advances and contains the following information:

- Lead Service Line Inventory (LSLI) to establish accurate source data, utilize a predictive model for service line material to reduce unknowns and apply the results to further expand and maintain the Authority's service line inventory ahead of the October 2024 submittal deadline.
- Lead Service Line Replacement (LSLR) Program to utilize the updated inventory and support the development of a program that aligns with industry best practices and LCRR requirements and will include approaches and solutions, costs, procedures, and funding opportunities for LSLRs.
- Sampling and Monitoring Program (SMP) to develop a program that efficiently and effectively manages LCRR data, is designed to keep customers informed through clear and easily accessible information and is fully compliant with the LCRR.



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- Public Education, Notification, and Outreach Program (PENOP) to establish clear messaging, expand community partnerships, and develop visual content to keep customers educated and informed about their water and the LCRR program. E3 Communications is also involved with this task.

#### *Lead Service Line Inventory (LSLI)*

The initial workshop for this task was held on October 6, 2022. The workshop reviewed the Authority's existing customer service line material inventory and the practices used to build the inventory. Best practices for inventory development were reviewed (reduce duplicate information, use unique identifiers, document sources, etc.) and data management methods were discussed. Field verification techniques to identify service line material (a critical component to the development of an accurate LSLI) were reviewed and discussed including magnet/scratch test, swab, spectrography, and hydroexcavation.

The results of the initial run of the predictive model are to be delivered to the Authority the first week of February. From these results, the location for specific field service line material verifications, including completion of approximately 200 test pits/hydro excavations at customer curb boxes, will be finalized. The information obtained from these field verifications will be fed back into subsequent model runs.

#### *Lead Service Line Replacement*

The initial workshop for this task was held on January 20, 2023. The workshop reviewed the federal regulatory requirements and included a discussion of possible changes to the Rule under the forthcoming Lead and Copper Rule Improvements, which may include a mandate for full lead service line replacement (public and private side) no matter the results of sampling. Various approaches to lead service line replacement were reviewed including case studies on mandates, funding, and contracting approaches employed by other utilities including the cities of Buffalo, Rochester, and Newark. Potential LSLR funding sources were reviewed including funds from DWSRF/BIL, Water Infrastructure Improvement Act (WIIA), and bonding/rate increases.

#### *Sampling and Monitoring Program*

Presentations on two alternate software platforms for the management of sampling and monitoring practices (120 Water and Arcadis Lead Insights) were completed in December 2022. In addition to managing the resulting sample data, the management platform will be used to track the delivery of sampling kits and filters to Authority customers. After a review by Water Quality, Production, Engineering and IT staff, the Lead Insights platform was selected. Subsequent meetings will focus on customer tap sampling and monitoring, and schools and childcare sampling.

#### *Public Education, Notification and Outreach Program*

The initial workshop for this task was held on November 11, 2022. The workshop presented example lead information campaigns from other utilities and reviewed initial proposed branding ideas for the Authority. It was decided after the workshop that Arcadis would develop the technical content for the campaign and E3 would incorporate the branding aspects (color pallet/logos, taglines, slogans). Various forms of public outreach/education materials were reviewed including postcards, letters, and doorhangers that may be used before and after field inspections (at locations through the LSLI predictive model).

Copies of all Work Plans, workshop agenda, presentations, and minutes are saved to the project folder.