



VIRGIN ISLANDS WATER & POWER AUTHORITY

PR-06-24

TERRITORIAL LEAD SERVICE LINE SURVEY

Date: 04/17/24

ADDENDUM I

Question:

Is there a scope of work for PR-06-24 that outlines the number of services that they would like us to inventory and the service areas?

Response:

While we have no records nor knowledge of the presence of lead service lines in any of our systems; and along with years of WAPA operations experience replacing meters and service lines and never encountering lead, we suggest that you conduct field investigations at a statistical subset (20% of service lines) connections, covering a range of property ages and geographies across the islands. The total number of service accounts is 13,500. However, the number of service lines that supply these accounts is unknown as there are many instances of one service line supplying multiple meter boxes. As such, we estimate that 70% rate for service lines. Therefore, the number of service lines to be inventoried is:

$$13,500 \times 70\% \times 20\% = \underline{\mathbf{1,890}}.$$

Please provide a unit cost for service line investigations. Please keep in mind that methods of investigation to develop inventories could include historical data, visual observation, water quality sampling (non-compliance), excavation, vacuum or

hydro-excavation, statistical analysis, or other emerging technologies. Please note that Lead Service Line also includes galvanized service lines.

Other Notes from the Prebid Meeting:

WAPA has completed water line rehabilitation projects in both districts. Water line rehabilitations include the replacement of ductile iron and cast-iron main with C900 PVC pipe and including service line upgrades schedule 80 PVC. During these installations, no lead gooseneck, pigtail, or connectors were encountered. Water Rehabilitation projects included:

St. Thomas- St. John:

- Contant Midtown (Car Wash)
- Contant Road behind MCH
- Main Street (75 Corner to Grand Hotel), (Nye Gade), (General Gade)
- Annas Retreat Phase 1 (Donoe Bypass Route 40 south to Old Tutu)
- Annas Retreat Phase 3 (Donoe Bypass Route 40 north to Annas Retreat Heights)
- Nadir Cycle by the bridge
- Bovoni Quarters behind Purple Shop
- Thomasville Homes
- Havensight Mall to Frenchman's Reef
- Old Tutu, New Tutu, Tutu Valley
- Smith Bay to Redhook
- Frenchtown & Hondurus
- Altona (VIHFA homes)
- Hospital Grounds (north & east of Old Hospital)
- Moravian Hwy to Contant Knolls
- Lindbergh Bay
- Cruz Bay (town up to round-about)
- Savan

St. Croix:

- Frederiksted (town)
- Christiansted (town)
- Clifton Hill
- Campo Rico
- Hannahs Rest
- Strawberry
- Castle Burke
- Sion Farm
- Annas Hope
- Whim
- La Grande Princess

RFP Document Clarifications

1. Page 3 items A&C: Material replacement is not required as part of the Service Line Inventory (SLI), however, VIWAPA can elect to do the work in conjunction with field investigations. Please notify WAPA immediately and document as required in this scope of work if lead/copper is found. Care should be taken during inspections to avoid disrupting the pipes (unless they are removed in entirety).
2. Page 24, section 5.2, Add the following:
Scope items required to complete the initial SLI include:
 1. Review historical records and document any information supporting the SLI (e.g., tap cards, property age data, service line replacement records).
 2. Conduct field investigations of 1890 service lines by September 30, 2024, including documentation of both the utility-owned and customer-owned portion of the service line.
3. Page 26, Section 1.2.3, bullet 3 revise: Excavate the smallest test hole practicable to expose a minimum of 6 inches of the WAPA service line before and after the water meter. Remove dirt and debris from service line.