



**CITY OF EAST PROVIDENCE  
WATER STORAGE TANK CLEANING  
SPECIFICATIONS  
REQUEST FOR PROPOSAL  
RFP EP22/23-18  
BID OPENING TUESDAY MAY 16, 2023 AT 11:00AM**

**WATER STORAGE TANK CLEANING**

**PART 1 GENERAL**

**1.1 SUMMARY**

A. Section Includes

1. Water Storage Tank Cleaning of:

- a. One 1.0-million gallon elevated steel spheroid tank. Approximately 200ft tall
- b. One 6.0-million gallon concrete standpipe. Approximately 100ft tall

**1.2 REFERENCES**

- A. The Society for Protective Coatings/NACE International, Waterjet Cleaning of Metals, SSPC-SP WJ-4/SSPC-SP WJ-3-2021:
- B. Occupational Safety and Health Administration (OSHA) Standards

**1.3 SCOPE OF WORK**

- A. Visible deposits of oil, grease, foreign matter, and other contaminants shall be removed by waterjet cleaning, low-pressure water cleaning.
- B. Contractor shall not permit dirt and debris from the tank cleaning to land on surrounding properties.
  1. Cleaning of neighboring properties required due to the Contractor's failure to prevent dirt and debris from deposit on home, vehicles, and personal property shall be the responsibility of the Contractor.

**1.4 SUBMITTALS**

- A. Detailed plan that includes the type of equipment to be used for cleaning the tank (including maximum psi setting), tank access equipment, and cleaning chemicals and ratios.
- B. If robotic equipment is proposed, provide equipment cut sheets
- C. Health and Safety Plan applicable to the planned work
- D. Certification that all chemicals must meet NSF 61 Standards

## **1.5 QUALITY ASSURANCE**

- A. Contractor shall have a minimum of 10-years' experience pressure wash cleaning tanks similar in sizes to the two Kent Heights tanks.
  - 1. Provide a minimum of 10 project references to the Owner and Engineer.
- B. Owner and Engineer shall complete a pre-work inspection of the exterior tank surfaces before work begins. Areas of loosely adhered coatings will be identified.
  - 1. Contractor shall not be not responsible for coating repairs to areas with loosely adhered coatings.
- C. Following the work, the Owner and Engineer shall complete a post-work inspection of the tanks to verify cleanliness.
- D. Contractor shall make the lift available for the Owner and Engineer's use for these inspections at no additional cost to the Owner.
- E. Contractor shall take precautions against removing tightly adhered coatings. In the event the coatings are removed by low-pressure water cleaning methods outside of any areas identified during the pre-work inspection, the Contractor shall immediately stop work and notify the Owner and Engineer.
- F. Pressure wash wand patterns shall not be present on the tank surfaces at the completion of the work

## **1.6 PROJECT SITE CONDITIONS**

- A. The 1.0-million-gallon tank is an elevated spheroid welded steel structure located off Walmer Avenue in East Providence, Rhode Island with a diameter of 75-feet, a total height of 200-ft.
- B. The 6.0-million-gallon tank is a precast concrete standpipe located on the same site as the elevated tank, with a height of 100-feet and diameter of 60-feet.
- C. The tanks are located in a residential neighborhood with houses within 100-feet of the tanks. Work hours, maximum noise levels generated by the equipment, site access, etc. shall be strictly enforced.
- D. The tanks will remain in operation during the duration of work. Contractor shall take precautions to protect the tank vents and the opening around the access tube on the elevated tank.
- E. Cellular antennas, Rhode Island Emergency Management Agency communication equipment, and local agency antennas are located in multiple areas on the elevated tank and will remain in service during the work.
- F. The concrete standpipe construction was completed in 2017. Hazardous materials are not present in the existing coatings.
- G. In 2017-2018 the elevated tank's interior and exterior coatings were completely removed and new coatings applied. Hazardous materials are not present in the existing coatings.

## **PART 2 PRODUCTS**

- A. The Owner shall provide water for the Contractor's use though one or more of the onsite hydrants.
- B. A backflow preventer will be installed for the Contractor's use. No water shall be taken by the Contractor from any other source.
- C. Contractor shall provide water tanks, pumps, pressure washers and all other equipment required to complete the work.

## **PART 3 EXECUTION**

### **3.1 GENERAL**

- A. In accordance with SSPC WJ-4 Light Cleaning, low-pressure power washing, remove all visible oil, grease, dirt, dust, loose mill scale, and loose coatings. Coatings tightly adhered to the tank's metal substrate shall not be removed. Residual material shall consist of randomly dispersed stains on top of the coatings.
- B. Pressure wash equipment shall not exceed 900-psi.
- C. Presoak: Apply mixture of soap and bleach to the tank surface using a low-pressure or brush applicators to the entire tank surface to treat mildew and mold and loosen dirt and debris on the tank's surfaces.
- D. Following application of the presoak, pressure wash the tank's surfaces to provide final cleaned surface.
- E. Cables for man baskets, wheel baskets, machine tethers, or other equipment that would damage the existing coating shall not be permitted.
- F. The tanks are in a residential neighborhood. Work shall occur during the hours of 8:00 AM and 6:00 PM. No equipment shall be permitted to run outside of these times without the Owner's approval.
- G. All equipment-generated noise shall be strictly controlled to limit the maximum sound level to 75 dBA at twenty feet from the equipment. Action required to abate the noise shall include, but not be limited to, ensuring that all equipment be housed in factory installed sound insulated enclosures, have silencers/mufflers in good working condition, locating all equipment as far away from the houses (on the far side of the tank) as possible, installing insulation blanket enclosures around equipment, installing hay bale berms around equipment, etc.

### **3.2 FINAL CLEAN-UP**

- A. Upon completion of all work under this Contract, remove from the site any and all waste generated by the Work. Remove all temporary structures and facilities and leave the site, including access and perimeter roads, in an equal or better condition than when work was started.
- B. All trees and shrubs damaged during the course of operations are to be properly trimmed, or replaced if necessary. Remove any brush, etc. from the site and provide a satisfactory method of disposal.
- C. Ruts, track marks, and any other disturbances in the ground around the tank will be smoothed out.
- D. The Contractor shall clean the site or adjacent properties of all dirt and debris that were dispersed from the project site.

Any questions regarding the RFP may be directed in writing to Jim Marvel at [jmarvel@eastprovidenceri.gov](mailto:jmarvel@eastprovidenceri.gov) and Ralph Mitchell at [rmitchell@eastprovidenceri.gov](mailto:rmitchell@eastprovidenceri.gov) no later than **FRIDAY MAY 5, 2023 AT 11:00 AM.**

Equal Opportunity/Affirmative Action Employer

Ralph Mitchell  
[rmitchell@eastprovidenceri.gov](mailto:rmitchell@eastprovidenceri.gov)