

SECTION 337010

TANK CLEANING

PART 1 - GENERAL

1.1 SCOPE

This scope of this project includes the cleaning of XXXXX located at XXXXX.

Note: This section of the specification needs to be edited in accordance with the particular project as only 1.2 or 1.3 may apply for any given project.

1.2 POTABLE WATER STORAGE TANKS

A. WORK INCLUDED

The work will include the pressure cleaning of all surfaces to remove deposits including but not limited to calcium carbonate, iron, manganese deposits, sand, and sludge. Additionally, all deposits, sand, sludge and other loose material shall be removed. All work must be completed in accordance with Florida Department of Environmental Protection rule, specifically Florida Administrative Code 62-555.350 (2).

The work must be completed and signed and sealed reports submitted to the City of North Port not later than insert date. The Work shall be performed under the responsible charge of a professional engineer licensed in Florida. Upon completion of the Work a detailed comprehensive report of findings with corresponding photos of the entire tank exterior and interior will be prepared.

Only one tank at a time can be out of service at each location.

The following is a list of tank size and location. Edit below to cover project scope.

1. Main Water Treatment Plant - 5655 North Port Blvd.
 - a. 1 Million Gallon Tank (95'D X 19' H) Ground Level Manway (24" X 14")
 - b. 2.5 Million Gallon Tank (150' D X 19' H) Ground Level Manway (55" X 20")

2. Northeast Booster Station - 1150 Nabatoff Street.
 - a. 1 Million Gallon Tank (85'D X 25'-9" H) Ground Level Manway (29" X 20")
 - b. 2 Million Gallon Tank (115'D X 25'-9" H) Ground Level Manway (54" X 20")
3. Southeast Booster Station - 8060 Tamiami Trail.
 - a. 1 Million Gallon Tank (90'D X 22.5' H) Ground Level Manway (52" X 17")

B. LOCATION OF THE WORK:

The location of the work is the **XXXX tank at the XXXX**.

C. COORDINATION OF THE WORK

The tank inspection engineer will be responsible for the following:

1. Opening manways and hatches. Replacing opening gaskets with new gaskets when closing of tanks.
2. Comply with all appropriate safety practices (Occupational Safety and Health Administration and confined space entry procedures) at all times.
3. **<Insert the number of tanks to be inspected>** tank inspections including the following, at a minimum:
 - a. Work performed by personnel under the responsible charge of a professional engineer licensed in Florida.
 - b. Photographing of interior and exterior of each tank's components with particular attention to any items in need of maintenance.
 - c. Documentation of recommended repairs.
 - d. Identification of recommended structural repairs.
 - e. Evaluation of existing paint or coating.
 - f. Removal of all biogrowth, calcium or iron / manganese deposits, and sludge from inside the five ground storage tanks.
 - g. Project schedule to be coordinated with Chief Plant Operator and Superintendent. Upon commencement the project coordination will be daily, which may include weekends. Water treatment plant operations will not be interrupted during the tank cleaning process. For the duration of the project, there must be a minimum of **<insert minimum quantity of storage>** of storage online and available at any given time.

The City will be responsible for:

1. Dewatering and all bypass valving.
2. Refilling and disinfection of the tank.
3. Bacteriological sample collection and testing.
4. Returning the tank into service.
5. The City shall have a representative present during tank cleaning and inspection activities.
6. Designating an area to dispose of all materials removed from the tanks.

D. MINIMUM QUALIFICATIONS

The tank inspection engineer shall have the following minimum qualifications to perform the Work.

1. All Work shall be performed by personnel under the responsible charge of a professional engineer licensed in the state of Florida.
2. The tank inspection engineer shall have up-to-date knowledge, specialized training, and practical experience in the design, fabrication, erection, inspection, sanitary integrity, coating, and maintenance of concrete water storage facilities as demonstrated by previous work.
3. The tank inspection engineer shall provide five (5) references for similar work that has been performed within the last three (3) years including a recently completed inspection report including recommendations.
4. Appropriate insurance as outlined by the City of North Port.

1.3 CLEARWELL

A. WORK INCLUDED

The work will include the cleaning of two clearwells at its Myakkahatchee Creek Water Treatment Plant. The clearwells have a volume of 46,000 and 50,300 gallons, respectively. The work will include the pressure cleaning of all surfaces to remove deposits including but not limited to calcium carbonate, sand, and sludge. Additionally, all deposits, sand, sludge and other loose material shall be removed from each clearwell.

B. LOCATION OF THE WORK

The two clearwells are located at the Myakkahatchee Creek Water Treatment Plant located at 5655 North Port Blvd.

C. COORDINATION OF THE WORK

The Contractor will be responsible for the following:

1. Comply with all appropriate safety practices (Occupational Safety and Health Administration and confined space entry procedures) at all times.
2. Removal of all remove deposits including but not limited to calcium carbonate, sand, and sludge from each clearwell. This item includes the disposal of all material removed from the clearwell at the City designated site.

The City will be responsible for:

1. Designating an area to dispose of all materials removed from the clearwells.
2. The City has a Thompson portable pumps and a vacuum truck that can be utilized for this project.
3. Operation of the Thompson portable pump and/or vacuum truck, if either or both are utilized for this project.
4. Water pressure cleaning and washout of the clearwells.

PART 2 - PRODUCTS

NOT USED

PART 3 – EXECUTION

NOT USED

END OF SECTION