

RAVENNA ARMY AMMUNITION PLANT

SECTION B

SCOPE OF WORK

FOR

REMOVAL OF UNDERGROUND STORAGE TANKS (USTs) TANK NUMBERS

20

21

55

56

57

58

63

64

completion of the venting and cleaning procedures, excavation shall proceed to the base of the tank along both sidewalls. Tank installations consisting of concrete pad and hold down straps shall have said anchor strap disconnected or removed prior to tank removal.

If venting and cleaning are not performed prior to removal of the tank from the ground, the Contractor shall take all necessary precautions in response to the explosive hazard that removal of such a tank presents. Tanks not fully vented and cleaned shall be temporarily plugged to prevent spillage and venting of potentially explosive gases during removal. The tanks shall only be plugged for as long as necessary for the removal procedure. Tanks not fully vented and cleaned prior to removal shall have these procedures performed immediately after removal.

Tanks are to be removed by lifting and pulling on straps or cables attached to the lifting lugs on the tank. Following removal, the Contractor shall paint the number of the tank on the side of the tank.

The following subsections discuss items that the Contractor must consider for specific tank areas on the Arsenal property.

3.2.1 Building DB-27 (LL-2)

This location consists of two (2) 15000 gal. #2 fuel oil tanks (Nos. 20 and 21). Fill ports, piping appurtenances and vent line piping shall be removed.

3.2.2 Building Powerhouse 1 (LL-1)

This location consists of two (2) 20000 gal. #5 fuel oil tanks (Nos. 55 and 56). Fill ports, piping appurtenances, vent line piping and concrete vault shall be removed.

3.2.3 Building Powerhouse 2 (LL-2)

This location consists of two (2) 15000 gal. #5 fuel oil tanks (Nos. 57 and 58). Fill ports, piping appurtenances, vent line piping and concrete vault shall be removed.

3.2.4 Building Powerhouse 7 (LL-4)

This location consists of two (2) 20000 gal. #5 fuel oil tanks (Nos. 63 and 64). All fill ports, piping appurtenances, vent line piping and concrete vault shall be removed.

3.3 Tank Venting

In order to safely clean and transport the tank, the tanks must be purged of potentially explosive vapors. Purging is to be performed as described in Section 3.1.6 of API Bulletin No. 1604, Methods 2 or 3. These methods utilize compressed air or dry ice to purge the tank of vapors. Method 1, filling of the tank with water to dispose vapors, is not acceptable.

3.4 Tank Cleaning

All sludges are to be removed from the tanks and containerized in Department of Transportation (DOT) Type 17H open head drums. Tanks shall be cleaned as appropriate to gain acceptance for off-site disposal as scrap. Contractor shall take appropriate measures to contain all cleaning fluids. Contractor shall be responsible for disposal of soils contaminated as a result of the tank cleaning operation. Contractor shall minimize the amount of water and cleaning solution utilized to clean the tanks. Containers shall be labelled with the facility name, date of container filling and the tank number. As discussed in Section 3.6, samples of sludge are to be collected for disposal characterization purposes.

3.5 Tank Disposal

Tanks shall be disposed as scrap metal. Tanks are not to be salvaged for resale.

3.6 Sludge Sampling

Contractor shall collect an appropriate number of samples to characterize for disposal purposes the sludge generated during tank cleaning. A minimum of two (2) sludge samples shall be collected, one (1) sample from the tanks known to have contained only No. 2 fuel oil, and one (1) sample from those tanks that contained No. 5 fuel oil during their operational lives. Samples shall be collected from the open head drum containers. The type of analyses required to characterize the sludge may be specified by the disposal facility.

RAVENNA ARMY AMMUNITION PLANT

SECTION A

SCOPE OF WORK

FOR

- 1.
2. REMOVAL OF UNDERGROUND STORAGE TANKS (USTs) TANK NUMBERS

46
50
59
60
61
62
80
81
82
83
86
87
88
89

completion of the venting and cleaning procedures, excavation shall proceed to the base of the tank along both sidewalls. Tank installations consisting of concrete pad and hold down straps shall have said anchor strap disconnected or removed prior to tank removal.

If venting and cleaning are not performed prior to removal of the tank from the ground, the Contractor shall take all necessary precautions in response to the explosive hazard that removal of such a tank presents. Tanks not fully vented and cleaned shall be temporarily plugged to prevent spillage and venting of potentially explosive gases during removal. The tanks shall only be plugged for as long as necessary for the removal procedure. Tanks not fully vented and cleaned prior to removal shall have these procedures performed immediately after removal.

Tanks are to be removed by lifting and pulling on straps or cables attached to the lifting lugs on the tank. Following removal, the Contractor shall paint the number of the tank on the side of the tank.

The following subsections discuss items that the Contractor must consider for specific tank areas on the Arsenal property.

3.2.1 Building EE-102 (Bolton House)

This location consists of one (1) 1500 gal. #2 fuel oil tank (No. 46). Fill ports, piping appurtenances, and vent line piping shall be removed.

3.2.2 Building Water Works 4

This location consists of one (1) 1000 gal. #2 fuel oil tank (No. 50). All fill ports, piping appurtenances, and vent line piping shall be removed.

3.2.3 Building Powerhouse 4 (Near LL-5)

This location consists of two (2) 20000 gal. #5 fuel oil tanks (Nos. 59 and 60). All fill ports, piping appurtenances, vent line piping and concrete vault shall be removed.

3.2.4 Building Powerhouse 5 (Near LL-10)

This location consists of two (2) 20000 gal. #5 fuel oil tanks (Nos. 61 and 62). All fill ports, piping appurtenances, vent line piping and concrete vault shall be removed.

3.2.5 Building George Road Gas Station

This location consists of one (1) 12000 gal. gasoline tank (No. 80). The tank is already abandoned with sand fill. Any remaining piping appurtenances shall be removed.

3.2.6. Building 1047

This location consists of three (3) 10000 gal. gasoline tanks (Nos. 81, 82 and 83). All fill ports, piping appurtenances, vent line piping and concrete islands shall be removed.

3.2.7 Building Telephone (North and Northeast)

This location consists of two (2) estimated 1000 gal. tanks (Nos. 86 and 87). The contents of these tanks is unknown. All fill ports, piping appurtenances and vent line piping shall be removed.

3.2.8 Building Fire Station #2

This location consists of one (1) estimated 1000 gal. #2 fuel oil tank (No. 88). All fill ports, piping appurtenances and vent line piping shall be removed.

3.2.9 Building George Road STP (Near S. Service Road)

This location consists of one (1) estimated 1000 gal. tank (No. 89). The tank contents is unknown. All fill ports, piping appurtenances and vent line piping shall be removed.

3.3 Tank Venting

In order to safely clean and transport the tank, the tanks must be purged of potentially explosive vapors. Purging is to be performed as described in Section 3.1.6 of API Bulletin No. 1604, Methods 2 or 3. These methods utilize compressed air or dry ice to purge the tank of vapors. Method 1, filling of the tank with water to dispose vapors, is not acceptable.