

2.3.4 UNDERGROUND STORAGE TANKS

REGULATORY REQUIREMENTS

Underground storage tanks must be designed and installed in accordance with federal regulations (40 CFR 280 and 281), state regulations (22a-449 (d) –1 and 101 through 113 inclusive), NFPA 30, NFPA 31, NFPA 327, API 1604, and all other applicable state and federal regulations. The contractor must comply with OSHA regulations for hazardous waste operations (29 CFR 1910.120) if contamination is found or suspected. Refer also to [Checklist for Permits, Certifications and Approvals](#) form indicated in section 2.4.1.

SOIL SAMPLES

DPW requires that all tank removal or replacement projects include soil samples of the walls and bottom of the tank grave. The samples shall be analyzed for evidence of contamination in accordance with the Department of Environmental Protection (DEP) guidelines for "Sampling and Analytical Methods for Underground Storage Tank Closure" (<http://www.ct.gov/dep/cwp/view.asp?a=2692&Q=322592>)

STOP WORK AND NOTIFICATION

Contractors shall be required to stop work and notify the DPW Construction Administrator (CA) in the event that contamination is discovered. The DPW has established guidelines for the continuation of the work and the investigation of the contamination subsequent to the detection.

Any soil excavated from a tank grave is considered potentially polluted and must be sampled and analyzed prior to either reuse on site, or disposal off site. Reuse of polluted soil must be done in accordance with RCSA 22a-133k-2. Polluted/contaminated soil to be removed from the site must be sent to a facility permitted to accept such soil. The analytical protocol of the receiving facility must be followed. Under no circumstance is soil to be removed from the site without prior written consent of DPW.

NEW INSTALLATIONS

All underground storage tanks shall be double-wall tanks with interstitial monitoring. Fiberglass reinforced plastic (FRP) underground storage tanks are preferred for unheated oils. #6 oil and in some cases #4 oil (depending on the return oil temperature) require steel tanks due to the elevated product temperatures. The DPW Technical Services Unit has standard design details and specification sections (in electronic format) for both underground and aboveground tank installations, piping systems and environmental issues. It is recommended that the A/E use these details and specifications as the basis for their designs, as they are well tested and provide for standardized installations at all State owned facilities.

TANK REGISTRATION

The A/E shall assist the agency in properly registering all tank work with DEP. All work, including removals, new installations and major modifications must be registered. Registration forms (DEP EPHM-6) with the required back-up information must be sent, within 30 days of completion of work, to the DEP UST Enforcement Unit at the following address:

Department of Environmental Protection
Bureau of Waste Management
Underground Storage Tank Enforcement Unit
79 Elm Street
Hartford, CT 06106
Attn: Scott Deshefy

If there are any questions about tank work contact:

Joseph V. Cassidy, P.E.
DPW Technical Services
165 Capitol Avenue Rm. 275

CONSULTANT'S PROCEDURE MANUAL

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