

# Underground Storage Tank Facility Plan Application

Texas Commission on Environmental Quality

for Storage on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.5(d), Effective June 1, 1999

*To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.*

*Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.*

## Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. All components used for this facility are U.L. listed or certified by a 3rd party and are compatible and will function pursuant to 30 TAC §213.5(d) and 30 TAC Chapter 334 Subchapter C. This **Underground Storage Tank Facility Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of Customer/Agent:

\_\_\_\_\_  
Regulated Entity Name: \_\_\_\_\_

## Underground Storage Tank (UST) System Information

- Attachment A – Detailed Narrative of UST Facility.** A detailed narrative description of the proposed UST Facility is attached. Note: Example descriptions are provided in the instructions (TCEQ-0583-Instructions)
- Tanks and substance to be stored:

**Table 1 - Tanks and Substances Stored**

<i>UST Number</i>	<i>Size(Gallons)</i>	<i>Substance to be Stored</i>	<i>Double-wall Tank Material</i>
1			

<i>UST Number</i>	<i>Size(Gallons)</i>	<i>Substance to be Stored</i>	<i>Double-wall Tank Material</i>
2			
3			
4			
5			

3. Tanks:

- Attachment B – Manufacturer Information for Tanks.** New or replacement systems for the underground storage of static hydrocarbons or hazardous substances must be double-walled or provide an equivalent method of protection approved by the executive director. Tanks must comply with technical standards as required by 30 TAC 334.45(b) relating to technical standards for new tanks. Manufacturer information is attached.
- Attachment C – Alternative Design and Protection Method for Tanks.** Information required by 30 TAC 334.43, relating to variances and alternative procedures is attached.

4. Piping:

- Attachment D – Manufacturer Information for Piping.** Piping must comply with technical standards as required by 30 TAC 334.45(c) relating to technical standards for new piping. Manufacturer information is attached.
- Attachment E – Alternative Design and Protection Method for Piping.** Information required by 30 TAC 334.43, relating to variances and alternative procedures is attached.

5.  Any new underground storage tank system that does not incorporate a method for tertiary containment shall be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature as required by 30 TAC §213.5(d)(1)(B).

The UST system(s) will not be installed within 150 feet of a domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

**Attachment F - Tertiary Containment Method.** The UST system(s) will be required to have tertiary containment provided. A description of the method proposed to provide tertiary containment is attached.

6.  Corrosion protection equipment to be installed or type of non-corrodible materials:

**Table 2 - Corrosion Protection**

<i>Equipment</i>	<i>Corrosion Protection (Method)</i>
Tanks	
Product Delivery Piping	

<b>Equipment</b>	<b>Corrosion Protection (Method)</b>
Vapor Recovery Piping	
Submersible Pumps	
Flex Connector (dispenser end)	
Flex Connector (pump end)	
Riser	

7.  Overfill protection equipment to be installed:
- Overfill prevention restrictor positioned at 90% capacity.
  - Overfill prevention valve positioned at 95% capacity.
  - Overfill audible and visual alarm positioned at 90% capacity.
8.  Methods for detecting leaks in the inside wall of a double-walled system must be included in the facility's design and construction. The leak detection system must provide continuous monitoring of the system and must be capable of immediately alerting the system's owner of possible leakages. Release detection equipment to be installed: (Check all that apply)
- Central on-site monitor
  - Interstitial tank probes
  - Automatic tank gauge
  - Pump/manway sump probes
  - Observation well probes
  - Mechanical line leak detectors (for pressurized lines only)
  - Automatic (electronic) line leak detectors

### ***Excavation and Backfill***

9.  The depth of the tank excavation will be sufficient to accommodate piping fall requirements, tank diameter, bedding, and a minimum cover of three (3) feet [30 TAC §334.46].
- The depth of the tank excavation will be \_\_\_\_\_ feet.
10.  The minimum thickness of the tank bedding will conform to 30 TAC §334.46(a)(5)(C and D).
- The tank bedding thickness will be \_\_\_\_\_ inches.
11.  The material to be used as backfill will conform to 30 TAC §334.46(a)(5)(A and B) and will consist of:
- Clean washed non-corrosive sand
  - Pea gravel
  - Crushed rock
  - Other: \_\_\_\_\_

12.  The slope of the product delivery line(s) will conform to 30 TAC §334.46(c)(2) and will be \_\_\_\_\_ (1/8" per foot minimum).

### ***Site Plan Requirements***

#### **Items 13 - 24 must be included on the Site Plan.**

13.  The Site Plan must have a minimum scale of 1" = 400'.  
Site Plan Scale: 1" = \_\_\_\_\_.
14. 100-year floodplain boundaries:
- The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): \_\_\_\_\_
  - Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
  - No part of the project site is located within the 100-year floodplain.
15.  The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Show lots, recreation centers, buildings, roads, etc.
- The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.
16. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
- There are \_\_\_\_\_ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)
    - The wells are not in use and have been properly abandoned.
    - The wells are not in use and will be properly abandoned.
    - The wells are in use and comply with 16 TAC §76.
  - There are no wells or test holes of any kind known to exist on the project site.
17. Geologic or manmade features which are on the site:
- All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.
  - No sensitive geologic or manmade features were identified in the Geologic Assessment.
  - Attachment G - Exception to the Geologic Assessment.** A request and justification for an exception to a portion of the Geologic Assessment is attached.
18.  The drainage patterns and approximate slopes anticipated after major grading activities.
19.  Areas of soil disturbance and areas which will not be disturbed.
20.  Locations of major structural and nonstructural controls. These are the temporary best management practices.
21.  Locations where soil stabilization practices are expected to occur.

22.  Surface waters (including wetlands).  
 N/A
23.  Locations where stormwater discharges to surface water or sensitive features.  
 There will be no discharges to surface water or sensitive features.
24.  Legal boundaries of the site are shown.

### ***UST System Profiles***

25.  **Attachment H - Profile Drawing(s)**. A profile drawing(s) of the proposed UST system with all components shown and labeled is attached.

### ***Best Management Practices***

26.  **Attachment I - Initial and Continuing Training**. A description of the initial and continuing training of on-site personnel for operation of release detection equipment is attached. The description should include how personnel will respond to warning and alarm conditions of the leak detection monitoring system.
27.  **Attachment J - Release Detection Maintenance**. A description of the program and schedule for maintaining release detection and cathodic protection equipment is attached. Any such equipment should be operated and maintained in accordance with the manufacturer's specifications and instructions.

### ***Administrative Information***

28. A Water Pollution Abatement Plan (WPAP) is required for construction of any associated commercial, industrial or residential project located on the Recharge Zone.
- The WPAP application for this project was approved by letter dated \_\_\_\_\_. A copy of the approval letter is attached at the end of this application.
  - The WPAP application for this project was submitted to the TCEQ on \_\_\_\_\_, but has not been approved.
  - A WPAP application is required for an associated project, but it has not been submitted.
  - There will be no building or structure associated with this project. In the event a building or structure is needed in the future, the required WPAP will be submitted to the TCEQ.
  - The proposed UST is located on the **Transition Zone** and a WPAP is not required. Information requested in 30 TAC 213.5 subsection (b)(4)(B) and (C) and (5) is provided with this application. (Forms TCEQ-0600 Permanent Stormwater Section and TCEQ-0602 Temporary Stormwater Section or Stormwater Pollution Prevention Plan/SW3P).
29.  UST systems must be installed by a person possessing a valid certificate of registration in accordance with the requirements of 30 TAC Chapter 334 Subchapter I.

30.  This facility is subject to and must meet the requirements of 30 TAC Chapter 334, including but not limited to the 30 day construction notification and reporting and cleanup of surface spills and overfills.
31.  Upon completion of the tankhold excavation, a geologist must certify that the excavation was inspected for the presence of sensitive features. The certification must be submitted to the appropriate regional office. If sensitive features are found, then excavation near the feature may not proceed until the methods to protect the Edwards Aquifer are reviewed and approved by the executive director.
32.  Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
33.  Any modification of this UST application will require TCEQ approval, prior to construction, and may require submission of a revised application, with appropriate fees.