



# FINAL SITE INVESTIGATION WORK PLANS FOR 12 UNDERGROUND STORAGE TANKS AND FINAL TNRCC REPORTING FORMS FOR FOUR UNDERGROUND STORAGE TANK SITES

Restoration Advisory Board Executive Summary #11 • August 12, 1999

## INTRODUCTION

Naval Air Station Fort Worth Joint Reserve Base (NAS Fort Worth JRB), formerly Carswell Air Force Base (AFB), is in the process of planning and conducting activities for the identification, remediation, and closure of contaminated sites at the base through the Installation Restoration Program (IRP). The IRP is the Department of Defense's (DoD) primary mechanism for environmental response actions on U.S. Air Force installations. IRP activities are governed by provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Resource Conservation and Recovery Act (RCRA), and other applicable Federal and state regulations. The IRP at NAS Fort Worth JRB is being conducted through the combined efforts of the Air Force Center for Environmental Excellence (AFCEE) and the Air Force Base Conversion Agency (AFBCA).

## UNDERGROUND STORAGE TANK WORK PLAN OBJECTIVES AND APPROACH

Final Work Plans have been developed for the site investigation of 12 underground storage tanks (UST) as part of the ongoing IRP.

These 12 USTs are located throughout NAS Fort Worth JRB and consist of nine USTs that were removed and three USTs that were abandoned in place. Figure 1 illustrates the approximate locations (depicted in blue) of these 12 USTs at NAS Fort Worth JRB. An investigation will be conducted at each UST site in an effort either to provide evidence in support of closure to the Texas Natural Resource Conservation Commission (TNRCC) or determine if further corrective action is warranted.

The first objective of this site investigation is to confirm the existence of two USTs in question. Field methods will include a visual inspection and a geophysical survey at each of the suspected sites. The second objective of this site investigation is to determine if a release from any of the USTs has occurred. Field methods will include a soil gas survey, soil boring installation, and groundwater sampling from existing monitoring wells. Additional soil borings and/or monitoring wells will be advanced and sampled if necessary to ensure that the extent of any potential contamination is evaluated. The third objective of the site investigation is to characterize the nature and extent of any contamination encountered during the initial investigation. This objective will be accomplished by defining the vertical and lateral

extent of contaminants that exceed TNRCC cleanup levels for leaking petroleum storage tank sites. Field methods will include further soil boring installation and soil sampling; monitoring well installation; and groundwater sampling from new and existing monitoring wells.

When delineation of the contamination is complete at each UST site, the results of the investigation will be compiled and submitted to TNRCC for review.

## TNRCC REPORTING FORMS

Final copies of the TNRCC reporting forms have been prepared for four former UST sites which do not require any further corrective action. These forms were submitted to the TNRCC in an effort to provide evidence in support of closure. A Site Closure Request form (TNRCC-0028) was prepared for two UST sites and a Release Determination Report form (TNRCC-0621) was prepared for the other two UST sites. All four UST sites are located throughout NAS Fort Worth JRB and consist of individual UST systems which were removed from service and investigated at the time of removal for possible impacts to the subsurface. Figure 1 illustrates the approximate locations (depicted in red) of these four UST sites at NAS Fort Worth JRB.

Site Closure Request forms were submitted to the TNRCC for the Leaking Petroleum Storage Tank (LPST) site 100486 (Building 4210) and LPST site 093351 (Building 1140). The system at Building 4210 contained four USTs which were used to store JP-10, a type of jet fuel. The system consisted of three 8,000-gallon tanks, one 2,000-gallon tank, and underground piping, all of which were removed on April 1, 1996. The system at Building 1140 contained two USTs which were used to store waste oil. The system consisted of one 400-gallon tank, one 550-gallon tank, and underground piping, all of which

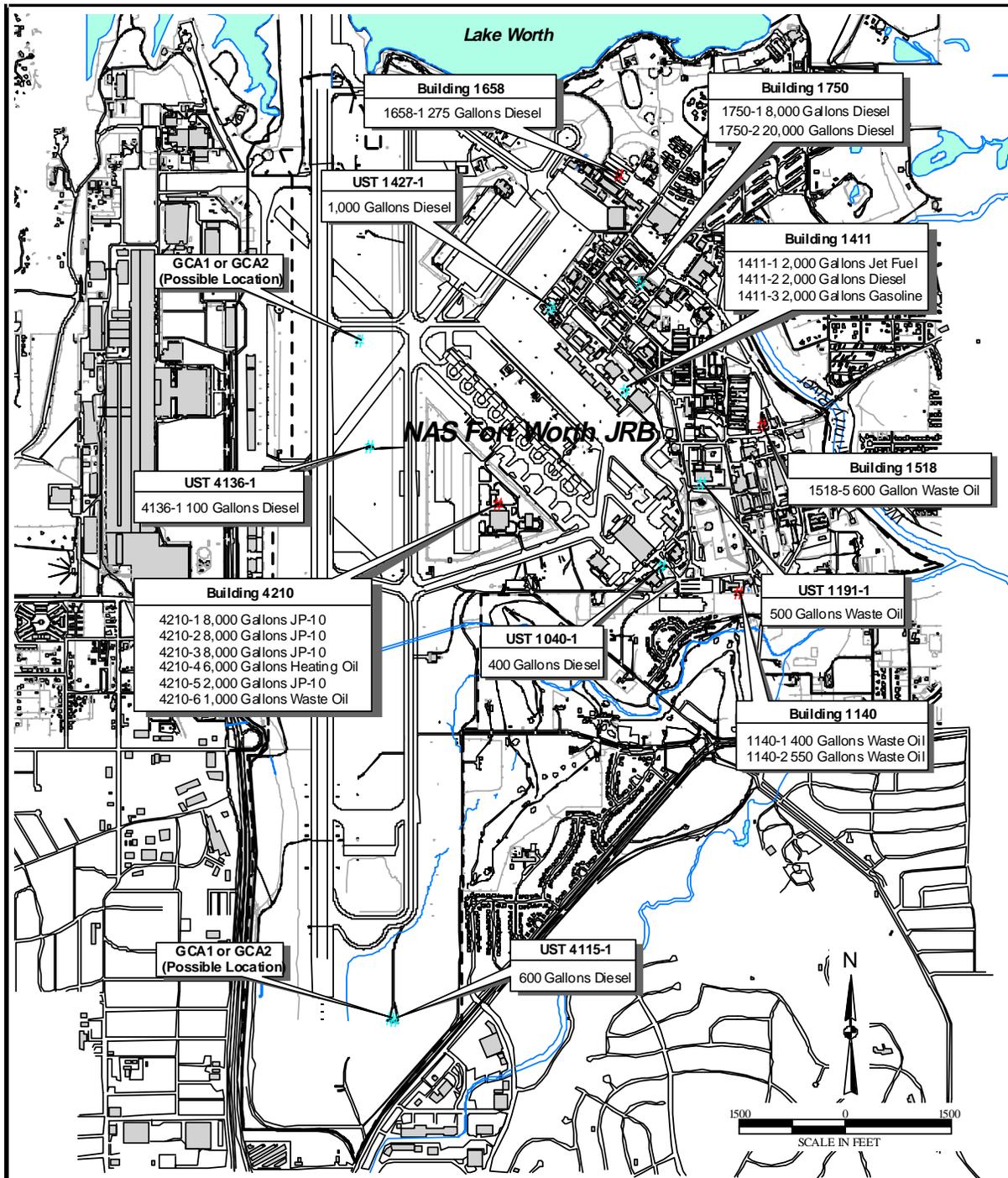
were removed on July 7, 1989. Both sites were designated as LPST sites by the TNRCC due to a release which was discovered during tank removal activities and was reported to have impacted soil above TNRCC action levels. While soil was impacted above the action levels at both sites, the TNRCC cleanup goals had not been exceeded. Based on this criteria, closure of the sites is the next appropriate action.

Release Determination Report forms were submitted to the TNRCC for the USTs located at Building 1658 and UST No. 5 at Building 1518. The system at building 1658 consisted of one 275-gallon UST

used for storing diesel fuel. This tank was removed on October 3, 1990. The system for UST No. 5 at Building 1518 consisted of one 600-gallon UST which was used to store waste oil. Removal of this tank occurred on March 21, 1996. Contamination was not detected in the soil above the TNRCC action levels at the time the two USTs were removed; therefore, the sites did not meet the requirements as an LPST. Based on this criteria, the Release Determination Report form has been submitted to the TNRCC as the tank removal from service documentation for both sites. No further action is required.

**For More Information:**

*If you would like more information, please see our web site at [nasfw.hgl.com](http://nasfw.hgl.com) or contact Michael Dodyk, HQ AFCEE, at (817) 782-7167 or via e-mail at [michael.dodyk@HQAFCEE.brooks.af.mil](mailto:michael.dodyk@HQAFCEE.brooks.af.mil).*



Filename: X:\AFC001\16bda\Report\fig1.apr  
 Project: AFC001-16BDA  
 Created: 07/12/99 jbe/cher  
 Revised: 08/02/99 jb  
 Source: HydroGeoLogic, Inc.—GIS Database



**Legend**

- NAS Fort Worth JRB Boundary
- Former Carswell AFB Boundary
- # TNRCC Reporting Form UST Site
- # UST Site Investigation Work Plan

**Figure 1**

**UST Locations**