



## Carswell/Plant 4

# FINAL 2000 ANNUAL GROUNDWATER MONITORING REPORT AND SITE CLOSURE REQUEST FOR AOC 4

Restoration Advisory Board Executive Summary #30 • May 10, 2001

## INTRODUCTION

Naval Air Station Fort Worth Joint Reserve Base (NAS Fort Worth JRB), formerly Carswell Air Force Base, 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 primary mechanism of the Department of Defense 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).

## FINAL ANNUAL GROUNDWATER MONITORING REPORTING

The Final 2000 Annual Groundwater Monitoring Report for Area of Concern (AOC) 4 was completed under the direction of the Texas Natural Resource Conservation Commission (TNRCC) Petroleum Storage Tank (PST) Division. A site Closure Request was prepared and submitted simultaneously with the Annual Report. AOC 4 is identified as the former Fuel Hydrant System (FHS) and is located along the west side of the South Ramp up to the

west side of the Alert Apron (Figure 1). The former FHS consisted of five pumping stations, approximately 20,000 feet of piping, and a bulk fuel storage area. Each pumping station had six 25,000-gallon underground storage tanks (UST) for storage of Jet Propulsion Fuel No. 4 (JP-4). From July 1994 until May 1995, the USTs were removed and the associated piping was abandoned in place. During the removal, the tank systems at four of the five stations were confirmed to be leaking. The stations were assigned Leaking Petroleum Storage Tank (LPST) site numbers 108711, 108712, 108713, and 104484 by the TNRCC.

A site investigation was performed at AOC 4 in 1998 that resulted in the following conclusions: 1) contaminants in the soil do not have a potential for future human exposure; 2) light non-aqueous phase liquids (LNAPL) exist in two monitoring wells at the site; and 3) concentrations of contaminants in groundwater appear to be decreasing over time. The site investigation report recommended pursuit of closure using the Plan A Early Exit Criteria process. In order to meet these requirements, all measurable LNAPL would have to be eliminated and groundwater data would have to illustrate contaminant plume stability.

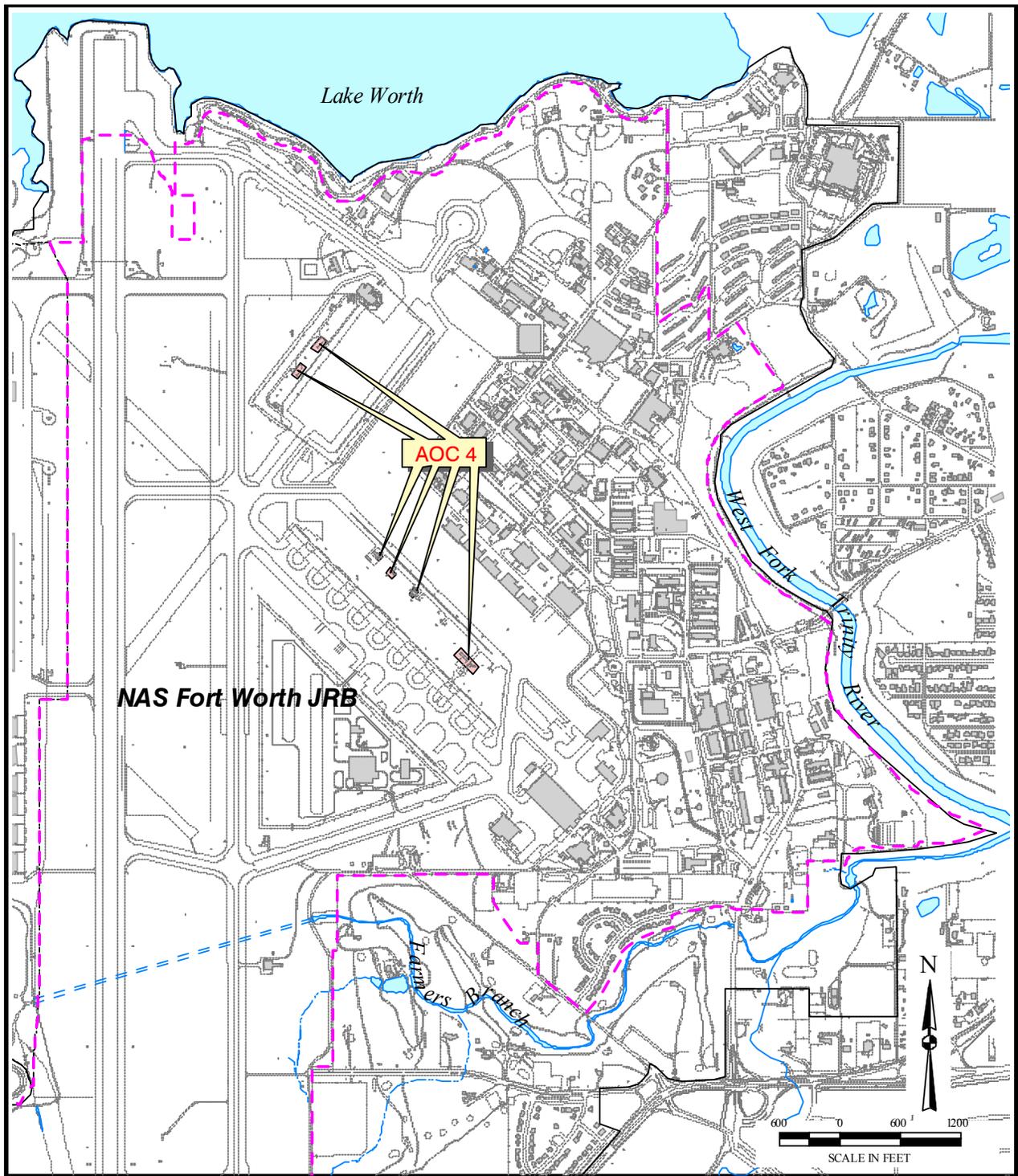
The following activities were performed in 1999: 1) LNAPL was monitored and removed on a weekly basis from the two wells that exhibited floating product and 2) groundwater was sampled over four quarters in 1999

from 10 monitoring wells at AOC 4. The results of the activities were reported in the Final 1999 Annual Groundwater Monitoring Report for AOC 4. Results indicated that LNAPL continued to exist in measurable amounts in two wells at AOC 4 and that groundwater contaminant plume concentrations had stabilized.

Activities performed in 2000 included continued LNAPL monitoring and recovery on a weekly basis and groundwater sampling on a semi-annual basis using a reduced number of monitoring wells. The 2000 monitoring program continued to show groundwater contaminant plume stability. In addition, LNAPL no longer existed in measurable amounts. This information was presented in the 2000 AOC 4 Annual Groundwater Monitoring Report submitted to the TNRCC PST Division. Based on the results, a site closure request was prepared and submitted to the TNRCC simultaneously with the 2000 Annual Report in March 2001.

### For More Information:

*If you would like more information, please see our website at <http://www.afcee.brooks.af.mil/er/carswell/nasfw/> or contact Michael Dodyk, HQ AFCEE, at (817) 782-7167 or via e-mail at [Mike.Dodyk@carswell.af.mil](mailto:Mike.Dodyk@carswell.af.mil).*



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**Legend**

- NAS Fort Worth JRB Boundary
- Former Carswell AFB Boundary
- Area of Concern (AOC)

**Figure 1**  
**Location of AOC 4**  
**NAS Fort Worth JRB, Texas**