

## Carswell/Plant 4



# FINAL 2000 ANNUAL GROUNDWATER REPORT AND SITE CLOSURE REQUEST FOR SWMU 68 AND AOC 7

Restoration Advisory Board Executive Summary #31 • August 9, 2001

## 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 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).

## BACKGROUND

Solid Waste Management Unit (SWMU) 68 is identified as the Petroleum, Oil, and Lubricant (POL) tank farm and an associated fuel loading facility. As shown on Figure 1, SWMU 68 is located in the eastern portion of the base near the main gate on Desert Storm Road. The POL tank farm consists of three above ground storage tanks (AST) (two with capacities of 630,000 gallons each and one with a capacity of 2.5 million gallons) that supply a fuel loading facility located approximately 200 feet

east across Desert Storm Road. Leaking underground piping in the loading facility is suspected of contaminating the surrounding subsurface soils and groundwater. The site was assigned Leaking Petroleum Storage Tank (LPST) Site Number 104819 by the Texas Natural Resource Conservation Commission (TNRCC).

Area of Concern (AOC) 7 is a former base refueling station that once existed on the corner of Military Parkway and Range Road, on the southeast side of the base near the main gate (Figure 1). The dates of service for AOC 7 are unknown, though it is believed that the station was abandoned in the 1960s. It is not known when, if any, of the Underground Storage Tanks (UST) were removed. In addition to the possible release of gasoline at the site, jet fuel was discovered in both soil and groundwater in the 1960s. Free product in both soil and groundwater were detected at AOC 7 during the 1990s in several investigations. It is believed that hydrocarbon contamination at AOC 7 is commingled with jet fuel contamination at SWMU 68. From these investigations, a hydrocarbon plume was defined around the POL and the fuel loading area.

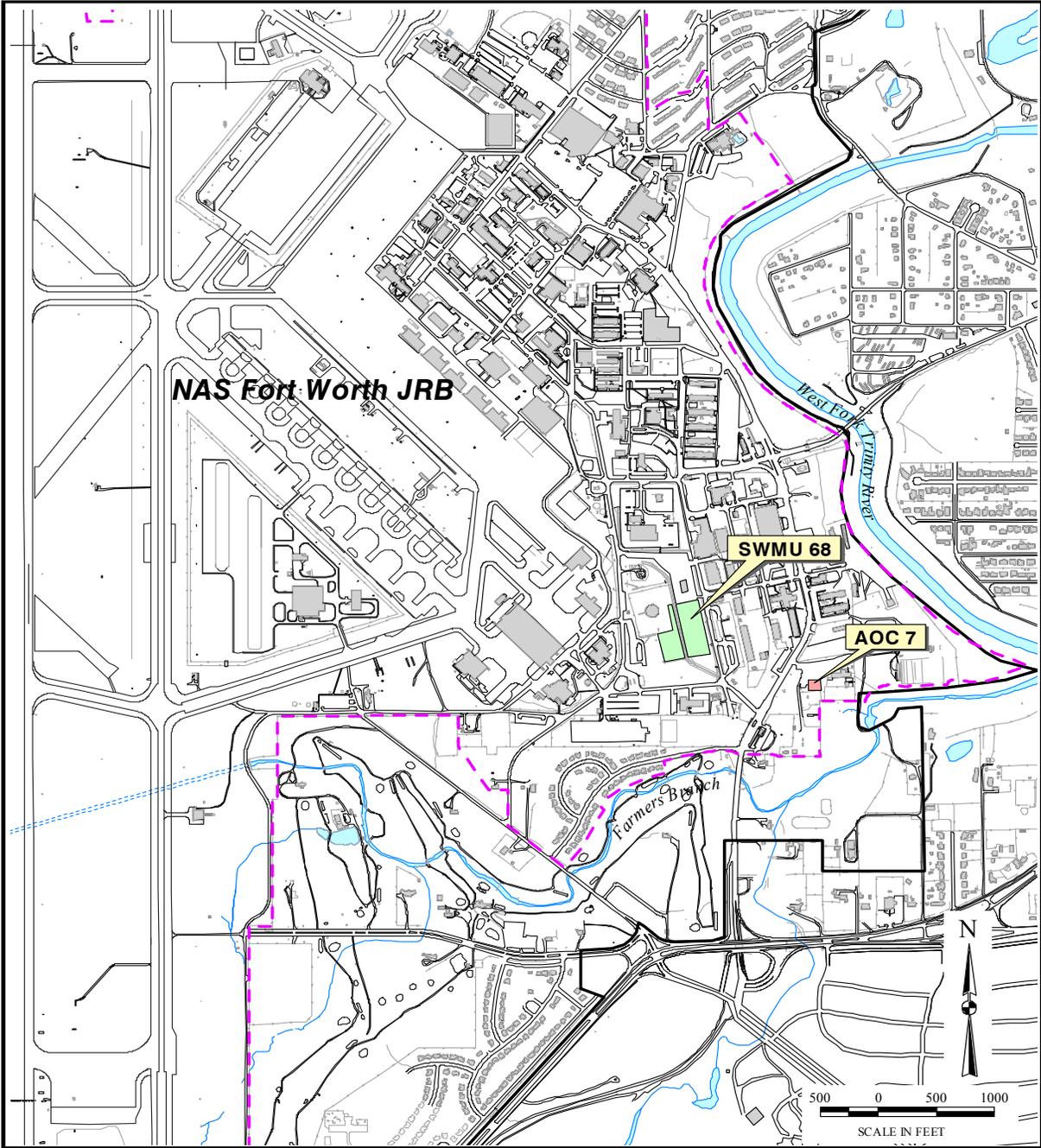
## FINAL 2000 ANNUAL REPORT

Activities performed during 2000 included groundwater sampling during April and October at eight monitoring wells and periodic light non-aqueous phase liquid (LNAPL) monitoring and recovery at four monitoring wells. The

2000 groundwater data continued to show low contaminant concentrations and contaminant plume stability. No samples contained any constituents at concentrations above the Category I or II target concentrations. In addition, LNAPL was detected only in inappreciable amounts (0.02 to 0.1 feet). Fluctuations in LNAPL volume is attributed to seasonal fluctuations in the water table. The most recent measurements show LNAPL thicknesses to be less than 0.01 feet. Previous soil sampling has shown soil concentrations to meet the appropriate pathways for the Plan A - Early Exit criteria except for benzene, which was lower than the calculated site-specific Plan B concentrations. A Plan B Risk Assessment was performed for SWMU 68 as part of the Final Remedial Action Plan (RAP) to determine the site-specific potential risks of benzene in both soil and groundwater, along with developing Plan B Target Concentrations for soil and groundwater. Based on the most recent data, a Site Closure Request was prepared and submitted to the TNRCC along with the Final 2000 Groundwater Report on May 15, 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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 Created: 07/10/01 jbelcher  
 Revised: 07/10/01 asp  
 Source: HydroGeoLogic, Inc—GIS Database



Legend	
	NAS Fort Worth JRB Boundary
	Former Carswell AFB Boundary
	Area of Concern (AOC)
	Solid Waste Management Unit (SWMU)

**Figure 1**  
**Location of**  
**AOC 7 and SWMU 68**  
**NAS Fort Worth JRB, Texas**