



## Carswell/Plant 4

# FINAL RCRA FACILITY INVESTIGATION REPORT SWMU 50 / Former Aircraft Washing Area No. 2

Restoration Advisory Board Executive Summary #39 • February 20, 2003

## 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).

## PROJECT BACKGROUND

A RCRA Facility Investigation (RFI) was conducted on solid waste management unit (SWMU) 50, also known as the Former Aircraft Washing Area No. 2. (See Figure 1 for SWMU location). The unit served as an aircraft washing area and drain collecting wastewater resulting from cleaning and maintenance activities for military aircraft. The SWMU 50 site consists of a concrete pad about 3.3 acres in size

that slopes in all directions to a centrally located grated drain. Based on aerial photographs, operations at SWMU 50 began between 1946 and 1950 and ceased between 1992 and 1996. While operational, the drain discharged through the base storm sewers to an oil water separator where any petroleum products were separated. The remaining discharge was then directed to the West Fork Trinity River. The RFI of SWMU 50 is required by the base's RCRA hazardous waste permit (HW-50289) that was issued by the Texas Commission on Environmental Quality (TCEQ).

## RCRA FACILITY INVESTIGATION STRATEGY

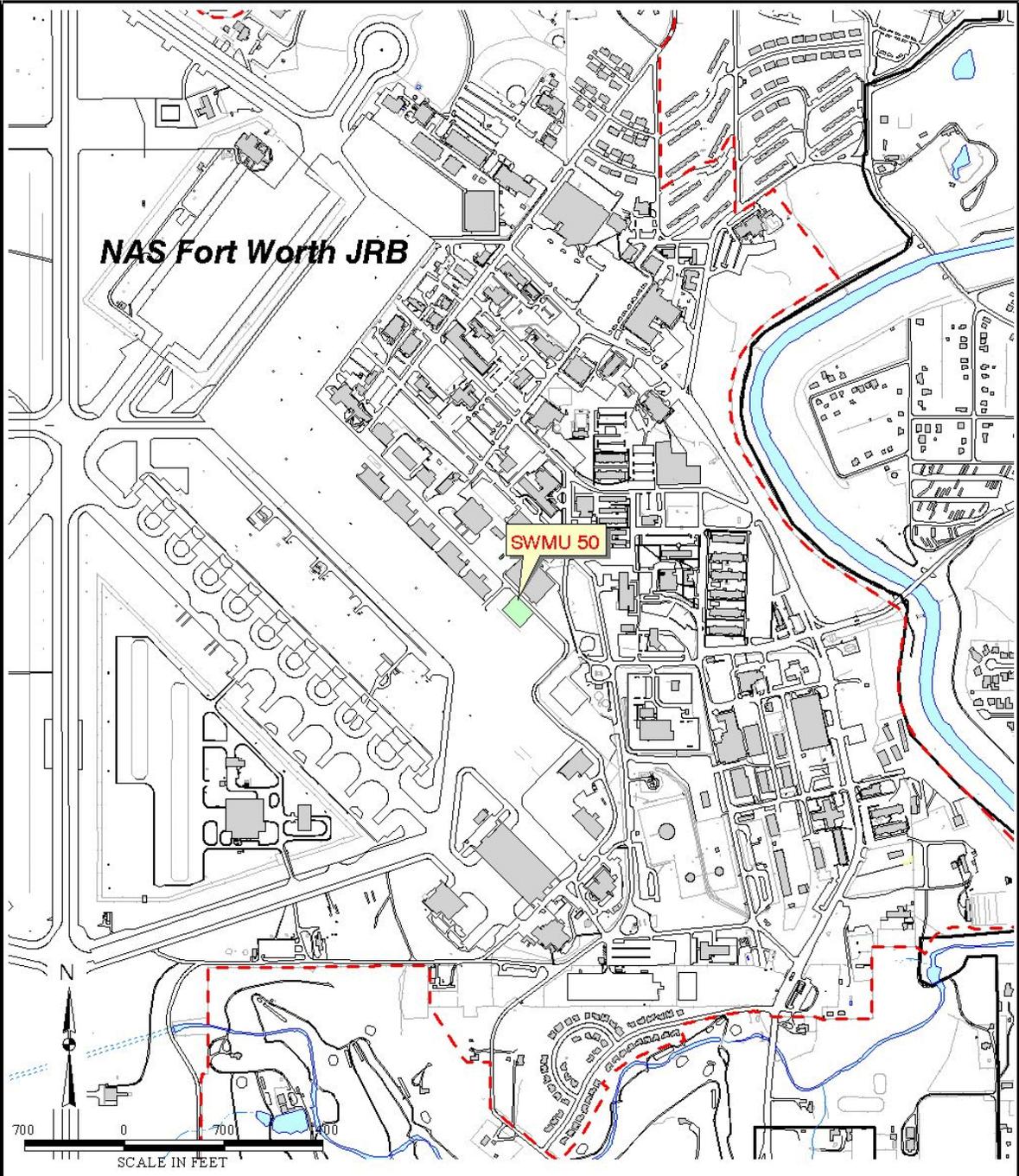
The goal of the RFI was to obtain closure of the site under the TCEQ Risk Reduction Standard (RRS) program. Consequently, an RFI sampling plan was designed to determine if a release from SWMU 50 had occurred and, if contamination was encountered, the nature and extent of the contamination was delineated. Essential information consisting of soil lithology and an assessment of potential contaminant impacts on the quality of soil and groundwater within and around SWMU 50 was obtained. In addition, standing water present in the drain was characterized and the integrity of the drain and pipe junctions was assessed. RFI activities at SWMU 50 were initiated in December 2000 and were concluded in April 2002. These

activities included the installation of 11 soil borings and 4 monitoring wells and the analysis of 51 soil samples, 14 groundwater samples, and 1 surface water sample from within the drain.

Analytical results indicate that SWMU 50 may have had an impact on the surrounding soil. However, there is no evidence of a release to groundwater. In addition, the drain and pipe junctions were found to be intact and all metals detected in the water sample collected from within the drain were within applicable discharge limitations. Therefore, this RFI Report recommended closure under RRS 2 for SWMU 50. Analytes detected in soil included in the RRS 2 deed certification include arsenic; chromium; lead; 1,1-DCE; cis-1,2-DCE; ethylbenzene; m,p-xylenes; o-xylene; PCE; TCE; 2-methylnaphthalene; naphthalene; and pyrene. The Final SWMU 50 RFI Report recommending closure under RRS 2 was submitted to the TCEQ for review in October 2002.

### 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).*



Filename: X:\AFC001\33ac\RAE\_exec\_sum\Report  
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 Project: AFC001-033-03  
 Created: 08/17/99 cfarmer  
 Revised: 11/04/02 cf  
 Source: HydroGeoLogic, Inc  
 Arc View Database, 2002



**Legend**

- - - NAS Fort Worth JRB Boundary
- Former Carswell AFB Boundary
- Solid Waste Management Unit

**Figure 1**

**SWMU 50 Location  
NAS Fort Worth JRB, Texas**