



Carswell/Plant 4

FINAL RCRA FACILITY INVESTIGATION REPORT SWMUs 5, 6, 12, 31, and 61

Restoration Advisory Board Executive Summary #37 • August 8, 2002

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 14 solid waste management units (SWMU) and 2 areas of concern (AOC) located throughout the NAS Fort Worth JRB installation. The SWMUs and AOCs included in this RFI served mainly as waste accumulation areas (WAA) that stored hazardous waste before it was disposed of in landfills, reused on-base, or processed through the Defense Reutilization and Marketing Office (DRMO) for off-base recycling or disposal. This RFI is required by the base's RCRA hazardous waste permit (HW-50289), which was issued by the Texas Natural Resource Conservation Commission (TNRCC).

The initial phase of the RFI was conducted at the subject SWMUs during May and June of 1999 in an effort to obtain closure of the sites under the TNRCC Risk Reduction Standard (RRS) program. As a result of the initial field investigation, 9 of the 16 sites required further investigation and/or remediation before closure could be requested. These sites, including SWMUs 5, 6, 11, 12, 31, 32, 36, 51, and 61, underwent a Phase II investigation in May 2000. Following Phase II, five of these sites, SWMUs 5, 6, 12, 31, and 61, required a third round of investigation activities and/or Interim Remedial Actions (IRAs) before closure could be requested. As a result, Phase III of the RFI was conducted in June 2001 and continued in November 2001 through March 2002. The RFI for SWMUs 5, 6, 12, 31, and 61 was documented in a Final Report and submitted to state and federal regulators on June 20, 2002. The locations of these SWMUs in relation to the base are presented in Figure 1.

RCRA FACILITY INVESTIGATION STRATEGY

The RFI was designed and conducted to determine if a release from any of the SWMUs or AOCs occurred. If contamination was encountered, the nature and extent of the contamination was determined, and IRAs to remove contaminated soil were performed if needed. In order to determine if the subject SWMUs and AOCs presented a threat to human health or the environment, essential information regarding each site was obtained. This information includes the lithology of soils beneath each site, the nature of wastes stored at each site, and an assessment of potential contaminant

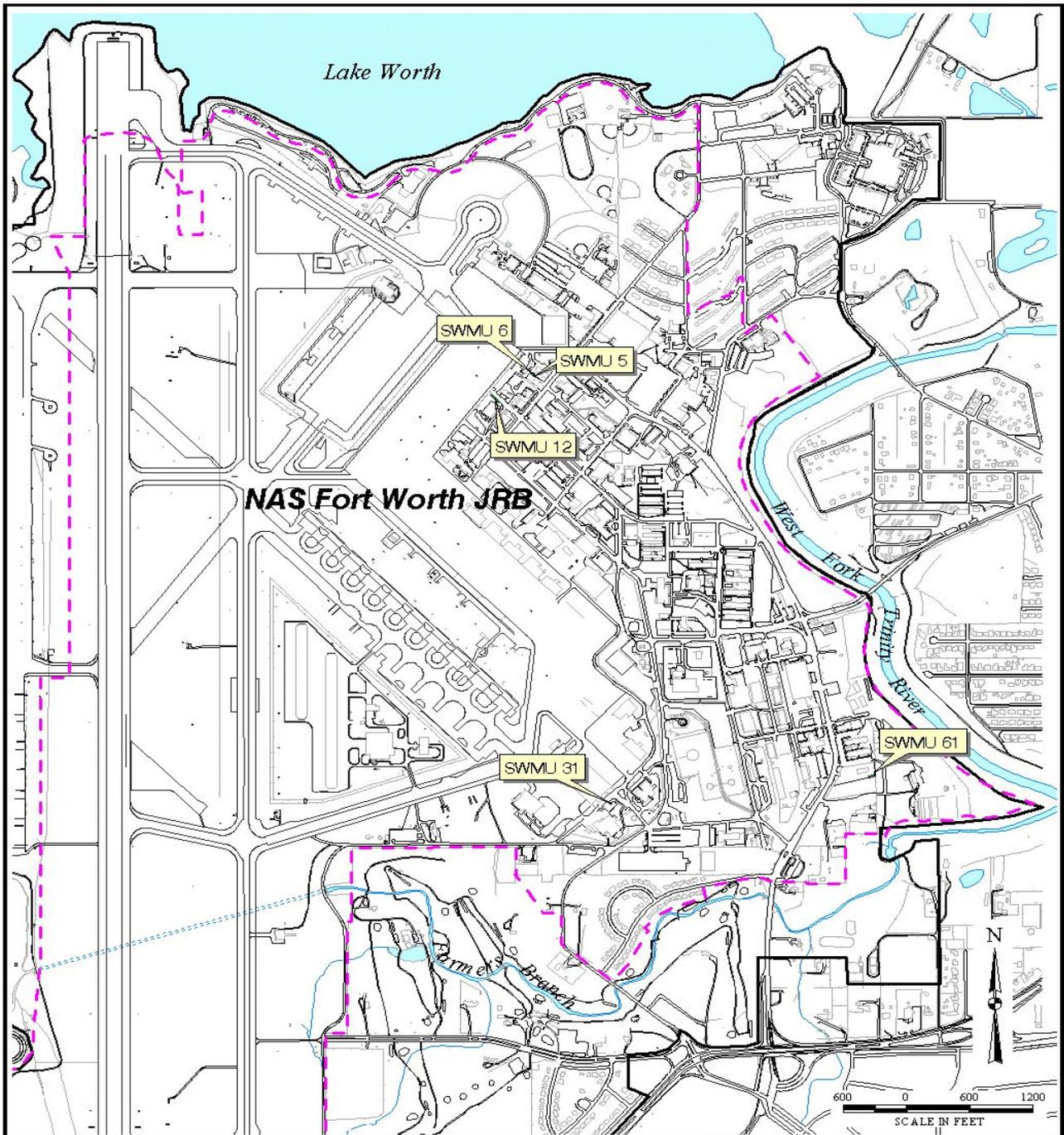
impacts on the quality of soil and groundwater within and around each SWMU/AOC.

Phase I field tasks included advancing continuous-core direct push technology (DPT) soil borings to collect soil samples at each site. The Phase II investigation included additional soil sampling as well as the installation and sampling of monitoring wells. Two rounds of groundwater sampling were conducted, with the exception of SWMU 31, as no subsurface soil contamination was encountered. The Phase III investigation included the installation and sampling of additional wells, and IRAs were conducted to remove contaminated soil as needed. Additional rounds of groundwater sampling were conducted at the subject sites as needed.

No evidence of contamination was encountered at SWMU 31. Some evidence of release was encountered at SWMUs 5, 6, 12, and 61. Therefore, this RFI Report recommended closure under RRS 1 for SWMU 31 and closure under RRS 2 for SWMUs 5, 6, 12, and 61.

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.



Filename: X:\AFC\001\15AC\Report
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 Created: 03/11/99 jbelcher
 Revised: 07/17/02 cf
 Source: HydroGeoLogic, Inc.
 ArcView GIS Database, 2001



Legend

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

Figure 1

**SWMU Locations
 NAS Fort Worth JRB, Texas**