



Carswell/Plant 4

FINAL RCRA FACILITY INVESTIGATION REPORT SWMUs 17, 29, 30, and 62 / Landfills 7, 2, 9, and 6

Restoration Advisory Board Executive Summary #38 • 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 units (SWMU) 17, 29, 30, and 62, also known as Landfills 7, 2, 9, and 6, respectively. (See Figure 1 for the SWMU locations). SWMU 17 is 3.4 acres in size, and the official period of operation was from 1978 to 1983, although activity was noted in aerial photographs until the early 1990s. SWMU 29 is 11 acres in size and operated from 1952 to 1956. SWMU 30 is 6 acres in size and operated from 1978 to 1983. SWMU 62 is approximately

1.5 acres in size and operated between 1975 and 1978. Each of the SWMUs reportedly received primarily construction debris, a variety of wastes, and possibly small quantities of hazardous waste. The RFI of SWMUs 17, 29, 30, and 62 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 sites under the TCEQ Risk Reduction Standard (RRS) program. Therefore, the RFI sampling plan was designed to determine if a release from SWMUs 17, 29, 30, or 62 had occurred. If contamination was encountered, the nature and extent of the contaminant of concern (COC) was delineated. Essential information consisting of soil lithology, the nature of wastes encountered, and an assessment of potential contaminant impacts on the quality of soil and groundwater within and around the former landfills was obtained to determine if SWMUs 17, 29, 30, or 62 presented a threat to human health or the environment.

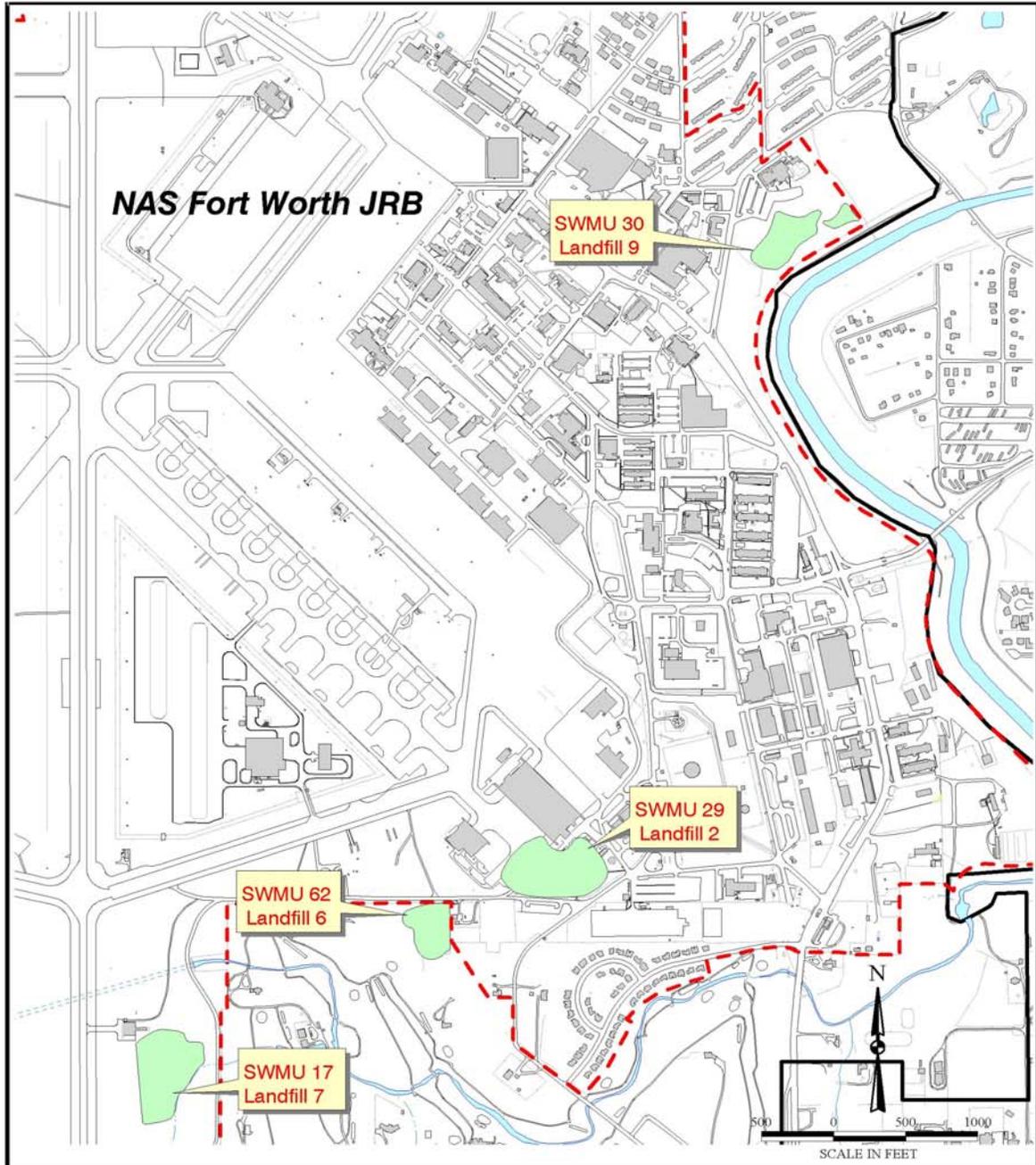
RFI activities at the SWMUs were initiated in February 1998 and were concluded in February 2002. These activities included 7 geophysical surveys; the installation of 227 soil borings and 25 monitoring wells; the analysis of 306 soil samples and 120 groundwater samples; and Interim

Remedial Actions consisting of the removal of contaminated soils from 7 excavation locations.

Construction debris consisting of concrete, asphalt, glass, wood, floor tiles, roofing tiles, paint chips, and scrap metal was encountered in the various landfills. Evidence of a release of metals, volatile organic compounds, semivolatile organic compounds, pesticides, and polychlorinated biphenyls into soil also was found. In areas where concentrations in soil exceeded allowable levels per TCEQ regulations, removal actions were conducted to eliminate areas with higher soil concentrations. No significant groundwater impacts were identified at SWMUs 29, 30, and 62. Benzene-impacted groundwater at SWMU 17 was delineated and monitored until concentrations were below RRS 2. Consequently, the RFI Report recommended closure under RRS 2 for SWMUs 17, 29, 30, and 62. The RFI Report was submitted to the TCEQ for review in September 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.



Filename: X:\AFC001\33ac\RAB_exec_sum\Report
 swmu17-29-30-62_location.apr
 Project: GSA002-007-05-01-01
 Created: 08/17/99 cfarmer
 Revised: 11/04/02 CF
 Source: HydroGeoLogic, Inc
 ArcView Database, 2002



Legend

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

Figure 1

**Locations of
SWMUs 17, 29, 30, and 62
NAS Fort Worth JRB, Texas**