



Carswell/Plant 4

FINAL RCRA FACILITY INVESTIGATION REPORT SWMU 26 / Landfill 3

Restoration Advisory Board Executive Summary #33 • February 7, 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 solid waste management unit (SWMU) 26, also known as Landfill 3. SWMU 26 was approximately 9 acres in size and operated from 1950 to 1952. It was located directly underneath and on both sides of the current north-south runway (Figure 1). During the period of operation, the main runway ended in a shallow sloping ravine north of

Farmers Branch Creek. SWMU 26 was located adjacent to and south of Farmers Branch Creek. This unit reportedly received a variety of wastes, but primarily, construction rubble. It also was reported to have received small quantities of hazardous waste. During runway extension activities, an aqueduct was constructed to re-route Farmers Branch Creek effectively bisecting the area of the landfill activity. As part of these construction activities, the contents of the landfill were redistributed to an unknown location(s). The RFI of SWMU 26 is required by the base's RCRA hazardous waste permit (HW-50289), which was issued by the Texas Natural Resource Conservation Commission (TNRCC).

RCRA FACILITY INVESTIGATION STRATEGY

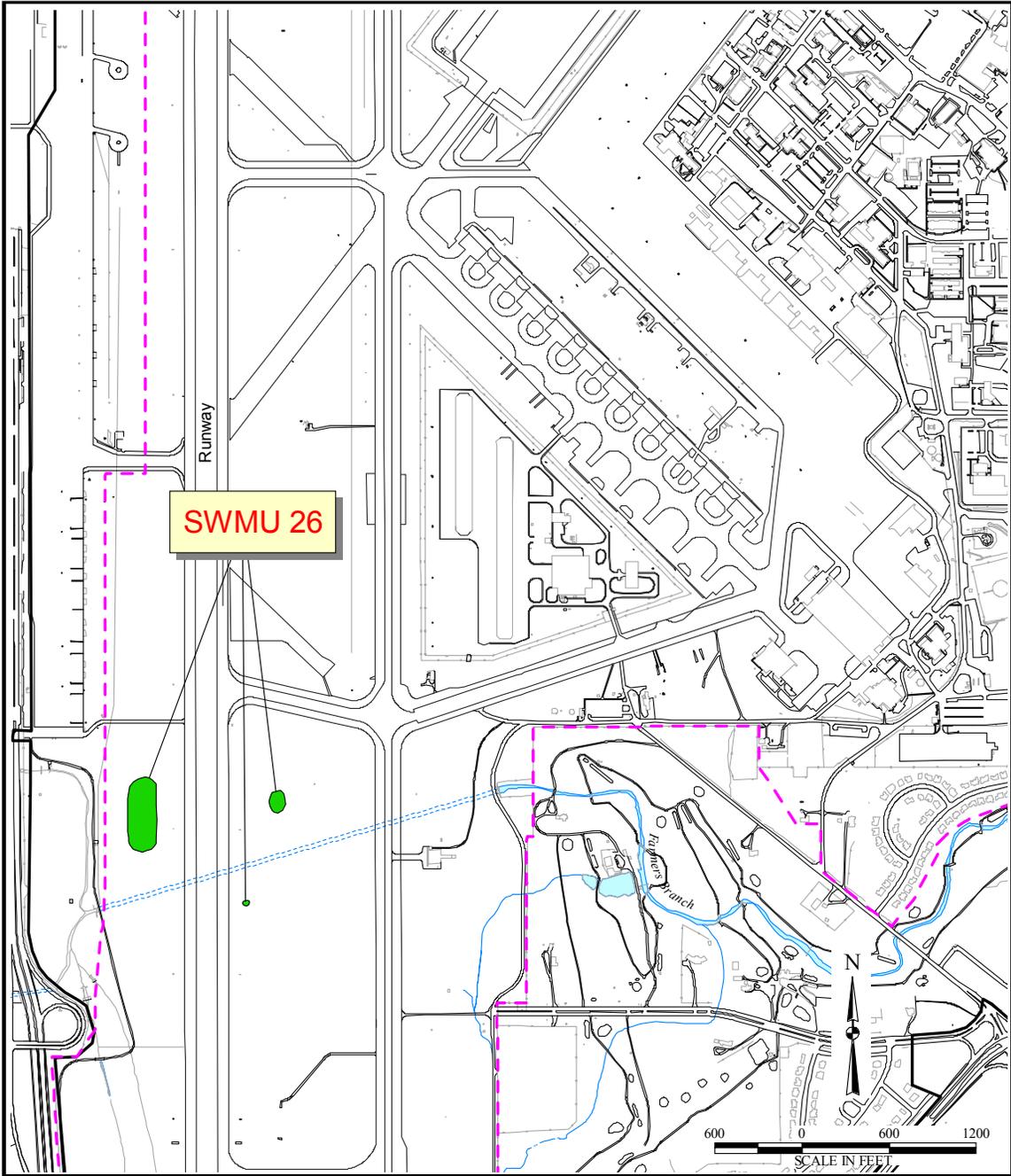
The goal of the RFI was to obtain closure of the site under the TNRCC Risk Reduction Standard (RRS) program. Consequently, an RFI sampling plan was designed to determine if a release from SWMU 26 had occurred and, if contamination was encountered, the nature and extent of the contamination was delineated. 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 landfill was obtained to determine if SWMU 26 presents a threat to human health or the environment.

RFI activities at SWMU 26 were initiated in February 1998 and were concluded in June 2001. These activities included 2 geophysical surveys, the installation of 35 soil borings, and 2 monitoring wells; the analysis of 35 soil samples collected from 16 of the 35 soil borings; and the analysis of 12 groundwater samples collected from 4 monitoring wells.

Sporadic construction debris consisting of asphalt, glass, bottle caps, wood, floor tiles, and scrap metal was encountered in different locations. Some evidence of a release of lead, chrysene, and pyrene into soil also was encountered. Therefore, this RFI Report recommended closure under RRS 2 for SWMU 26. The RFI Report was submitted to the TNRCC for review in November 2001. TNRCC approved closure of SWMU 26 in December 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.



Filename: X:\AFC001\15AC\Report
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 Created: 03/11/99 jbelcher
 Revised: 01/22/02 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 26 Location
 NAS Fort Worth JRB, Texas**