



# NAS Fort Worth Joint Reserve Base

*Carswell Field, Texas*

## AREA OF CONCERN NO. 2 WORK PLAN

**RAB Executive Summary #3 • 13 February 1997**



### INTRODUCTION

NAS Fort Worth Joint Reserve Board (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 DoD's primary mechanism 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), Resource Conservation and Recovery Act (RCRA) and other applicable federal and state regulations. These activities are being conducted through the combined effort of the Air Force Center for Environmental Excellence (AFCEE) and the Air Force Base Conversion Agency (AFBCA).

### AOC 2 BACKGROUND AND DESCRIPTION

Under provisions of RCRA, the Air Force has identified 68 solid waste management units (SWMUs) and 15 Areas of Concern (AOCs) for further study and cleanup if needed. One of these is AOC 2. Previous investigations of the AOC 2 area identified the need for a RCRA Facility Investigation (RFI). An RFI is a more detailed evaluation of the nature and extent of contamination at a facility. The workplan describes the proposed activities to be conducted as part of the RFI at AOC 2.

AOC 2 includes all areas on the east side of the runway where trichloroethene (TCE) is detected in shallow groundwater. TCE contamination at NAS Fort Worth JRB is generally confined to three areas, called lobes, in the southern, central, and northern portions of AOC 2. Groundwater in the AOC 2 area, which includes the northern and central TCE lobes, may include other contaminants related to fuel products, such as benzene, toluene, ethylbenzene, and xylene (also known as BTEX compounds). Data from previous groundwater monitoring activities indicate that

several co-mingled plumes comprise AOC 2.

### AOC 2 WORKPLAN OBJECTIVES AND APPROACH

The workplan was developed to address the requirements of an RFI for AOC 2 in order to support future closure of the site.

The primary objectives for the AOC 2 RFI are:

1. Identification of shallow groundwater flow patterns in the northern lobe to evaluate if contaminated groundwater could reach the deeper Paluxy Aquifer, which is a source of drinking water for several communities near NAS Fort Worth JRB;

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### For More Information

*If you would like more information about the Workplan for Area of Concern 2, contact Joseph Dunkle, HQ AFCEE, at 210/536-5290.*

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2. Delineation of the extent of the northern lobe of TCE groundwater contamination in AOC 2;

3. A fate and transport assessment to help determine the on-site and/or off-site sources responsible for the present contaminant distribution within the AOC 2 study area. This assessment also will evaluate the extent to which degradation of contaminants may be occurring within the AOC 2 contaminant plume;

4. A risk characterization to evaluate the risk posed to human health and the environment by the constituents encountered in soils and groundwater that define AOC 2.

The workplan describes the following tasks to achieve these objectives:

Task 1 — Data Evaluation and Review of Existing Data

Task 2 — Field Investigation, Including Groundwater Sampling

Task 3 — Data Management and Validation

Task 4 — Data Evaluation, Including Fate and Transport

Task 5 — Risk Characterization

Task 6 — RFI Report

## **Area of Concern 2 - RFI Study Area**

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