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DEPARTMENT OF THE AIR FORCE

27th CIVIL ENGINEER SQUADRON (ACC)
CANNON AIR FORCE BASE NEW MEXICO

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Lt Col Nicholas L. Desport
Commander
506 N DL Ingram Blvd
Cannon AFB NM 88103-5323

Mr. James Bearzi, Chief
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
2044 Galisteo Street
PO Box 26110
Santa Fe, NM 87502

Dear Mr. Bearzi,

Enclosed for your information, review , and records is a Remedial Action Work Plan for SWMU 97, Landfill No. 25 Cannon Air Force Base, New Mexico. This project is a surface cleanup only to dispose of asbestos containing materials and clean up concrete rubble on the surface of the site. Drainage will be improved to minimize pooling and infiltration of rain water at the site.

If you have any questions, please contact Mr. Sanford Hutsell of my environmental staff at (505)784-6378.

Sincerely,

NICHOLAS L. DESPORT, Lt Col, USAF
Commander

Encl:
Remedial Action Work Plan for SWMU 97
Landfill No. 25 Cannon Air Force Base, New Mexico

cc:
NMED w/o encl (G. VonGonten)
NMED GW Bureau (J. Jacobs)
EPA Region VI w/o encl (D. Neleigh)
EPA Region VI (B. Sturdivant)

HWB CAFB-00-006

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Remedial Action Work Plan for SWMU 97—Landfill No. 25 /SWMU 97 Cannon Air Force Base, New Mexico Volume 1

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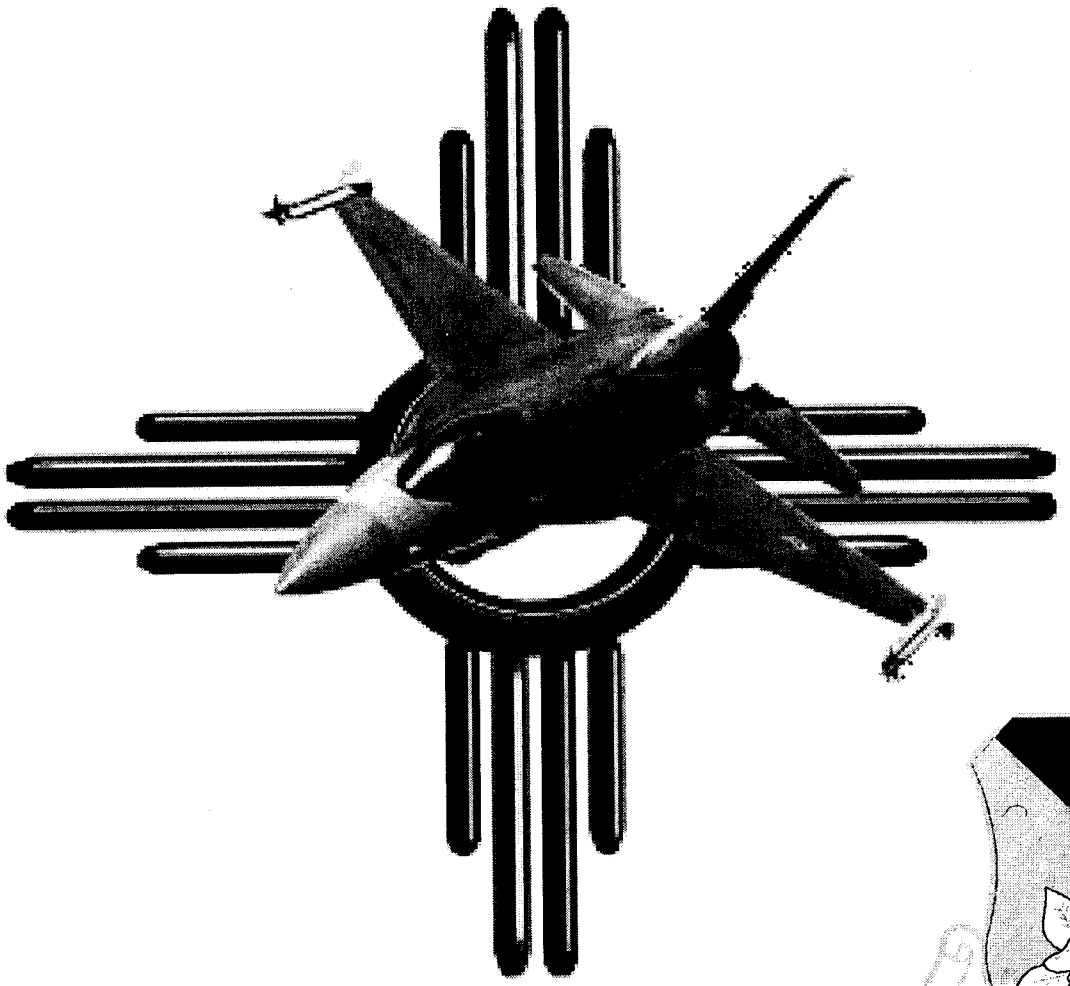

27TH FIGHTER WING

Project Number: CZQZ20007025

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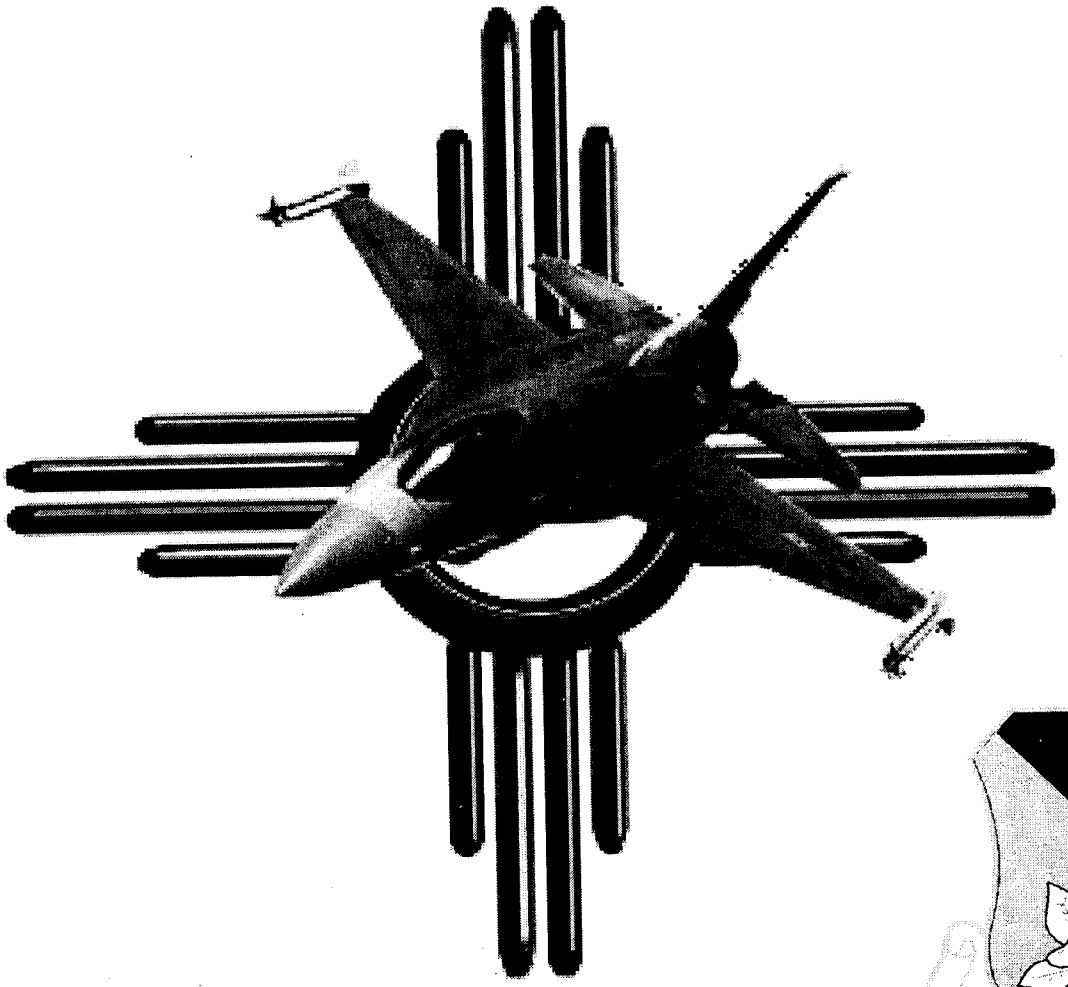

27TH FIGHTER WING

Project Number: CZQZ20007025

REMEDIAL ACTION WORK PLAN
SWMU 97—LANDFILL NO. 25
CANNON AIR FORCE BASE, NEW MEXICO

Prepared for:

27 CE/CEV
Cannon Air Force Base, NM
and
HQ ACC/CEV
Langley Air Force Base, VA

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Under Contract No. DACW45-94-D-0003
Delivery Order No. 28, Work Authorization Directive 3
Project Number: CZQZ20007025

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

July 2000

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LIST OF ACRONYMS

ACM	asbestos-containing material
AFB	Air Force Base
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
C-O-C	chain-of-custody
cu yd	cubic yard
DO	Delivery Order
DOT	U.S. Department of Transportation
DQCR	daily quality control report
DQO	data quality objective
EPA	U.S. Environmental Protection Agency
ESS	Environmental Safety Supervisor
ft	foot/feet
Foster Wheeler Environmental	Foster Wheeler Environmental Corporation
HASP	Health and Safety Plan
HWMR	Hazardous Waste Management Regulations
IRP	Installation Restoration Program
LDR	Land Disposal Restriction
LF-25	Landfill No. 25
LIMS	Laboratory Information Management System
MDL	method detection limit
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
PCS	petroleum-contaminated soil
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RA	remedial action
RCP	Regulatory Compliance Plan
RCRA	Resource Conservation and Recovery Act

LIST OF ACRONYMS (Concluded)

SPCC	Spill Prevention Control and Countermeasures Plan
SSHP	Site-Specific Safety and Health Plan
SVOC	semivolatile organic compound
SWMR	Solid Waste Management Regulations
SWMU	Solid Waste Management Unit
SWPP	Stormwater Pollution Prevention Plan
TCLP	toxicity characteristic leaching procedure
TRPH	total recoverable petroleum hydrocarbon
TSDF	treatment, storage, and disposal facility
USACE	U.S. Army Corps of Engineers
USAF	United States Air Force
VOC	volatile organic compound

1.0 INTRODUCTION

This document describes the remedial action (RA) to be conducted for Solid Waste Management Unit (SWMU) 97, Landfill No. 25 (LF-25), at Cannon Air Force Base (AFB), New Mexico. Foster Wheeler Environmental Corporation (Foster Wheeler Environmental), at the direction of the U.S. Army Corps of Engineers (USACE) Omaha District and Cannon AFB, will remove and dispose of exposed asbestos-containing material (ACM), crush and remove visible concrete, construct drainage channels/outlets, and revegetate the site.

This RA Work Plan meets the requirements stipulated within the Total Environmental Restoration Contract No. DACW45-94-D-0003, Delivery Order 28, Work Authorization Directive 3; Resource Conservation and Recovery Act (RCRA) Corrective Action Plan Guidance (EPA, 1994a); and USACE and Base requirements.

The RA Work Plan provides project objectives, descriptions, field procedures, and related plans that address all aspects of the proposed construction activities at LF-25. A detailed grading and drainage plan, based on current survey data, is provided under separate cover. Additionally, a Site-Specific Safety and Health Plan (SSHP) addendum to the Cannon AFB Base-Wide Health and Safety Plan (HASP) (Foster Wheeler Environmental, 2000) has been prepared for the RA and is included as Appendix C to this document. All field activities will be performed in accordance with the Base-Wide HASP, the SSHP addendum, and USACE health and safety requirements.

1.1 PROJECT OBJECTIVES

This RA is designed to minimize the threat to human health and the environment by accomplishing the following activities:

- Site Survey. To plan access routes and staging areas, a site topographic and content survey will be performed to identify the general location, approximate volume, and types of exposed debris. The topographic information will be used to develop a grading and drainage plan.
- Tree Removal and Trimming. To construct access roads and retrieve exposed debris, trees and limbs will be trimmed and/or removed and then disposed by burial on site.
- ACM Separation, Transportation and Disposal. All exposed ACM will be addressed in this activity. The ACM will be separated, transported, and disposed at a permitted disposal facility, prior to all other field activities.
- Separate and Haul Concrete. Clean, salvageable, exposed concrete will be separated and identified during the site survey and then moved to the concrete crushing plant. No excavation of material will be performed. The "clean" determination will be made by visual inspection. No analytical laboratory testing is anticipated.

- Concrete Crushing. A concrete crushing plant will be operated and maintained to produce 4-inch diameter, or smaller, concrete material that will be stockpiled on site for future use.
- Native Soil Cover/Debris Consolidation. The remaining exposed debris will be consolidated, to the extent possible, and a native soil cover of 4 to 6 inches of clean imported soil will be placed. The area is estimated to be 10 acres.
- Grading and Drainage Construction. The construction of runon/runoff control ditches around the site perimeter will be completed in this activity. Outlet drainage will be directed to the southeast corner of the landfill. Additionally, temporary soil erosion and sediment control will be required to prevent the sedimentation of off-site areas from stormwater runoff.
- Site Revegetation. The entire site will be revegetated and mulched with native grasses. Compost from Cannon AFB will be used as mulch.
- Final Survey. A topographic survey of the final site contours and features will be performed to develop record drawings to be provided with the RA Completion Report.

1.2 DOCUMENT ORGANIZATION

This RA Work Plan describes the methods that will be used to remove and dispose of exposed ACM, remove and crush exposed concrete debris, construct drainage channels, and revegetate the site. Foster Wheeler Environmental personnel, including subcontractors, will follow the procedures outlined in this Work Plan.

The Work Plan is divided into six sections, plus references and related appendices:

- Section 1 – Introduction
- Section 2 – Site Description and History
- Section 3 – Project Implementation Plan/Scope of Work
- Section 4 – Regulatory Compliance Plan
- Section 5 – Quality Assurance Project Plan
- Section 6 – Project Management

2.0 SITE DESCRIPTION AND HISTORY

A description of Cannon AFB and brief discussion of LF-25, including site description, history, and results of previous investigations, are provided below. The USACE and previous reports provided the site history and detailed descriptions of previous site activities.

2.1 CANNON AFB DESCRIPTION AND HISTORY

Cannon AFB occupies approximately 4,000 acres south of U.S. Highway 60/84 in Curry County, New Mexico. The Base is 6 miles west of the city of Clovis, near the New Mexico-Texas border (Figure 2-1). The area surrounding Cannon AFB is used mainly for farming and ranching. Cannon AFB also maintains several satellite facilities.

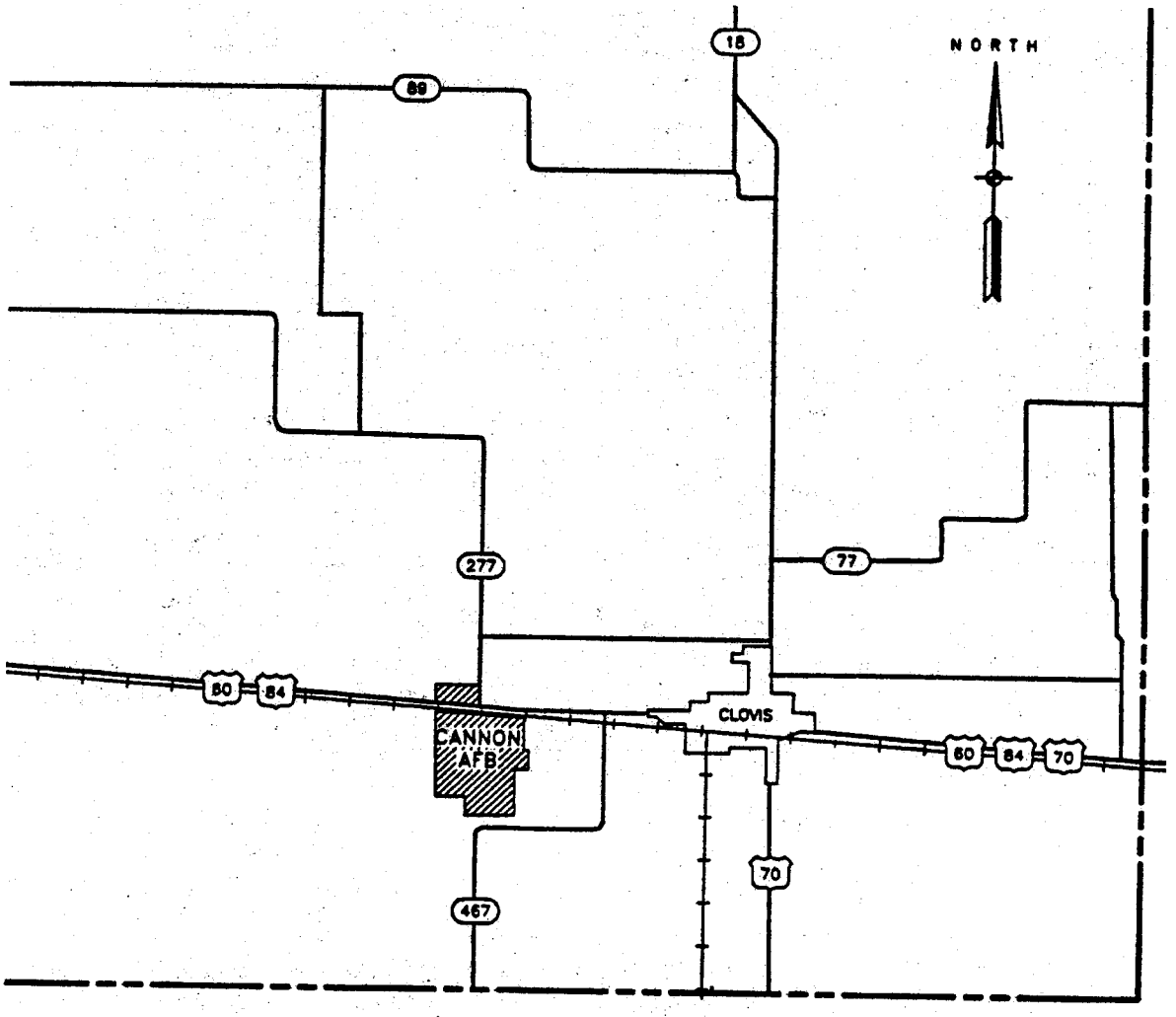
In 1942, the Department of Defense established the Clovis Army Air Base, a training facility for B-17, B-24, and B-29 aircrews. In 1945, the base was renamed Clovis Army Airfield; it was closed in 1947. In 1951, the facility was reactivated and reassigned to the Tactical Air Command; in 1957 it was renamed Cannon Air Force Base. In 1975, the 27th Tactical Fighter Wing became the principal Air Force unit at Cannon AFB. In 1992, the Base was reassigned to the Air Combat Command and currently maintains a combat-ready force and provides replacement training of combat aircrews for worldwide tactical organizations.

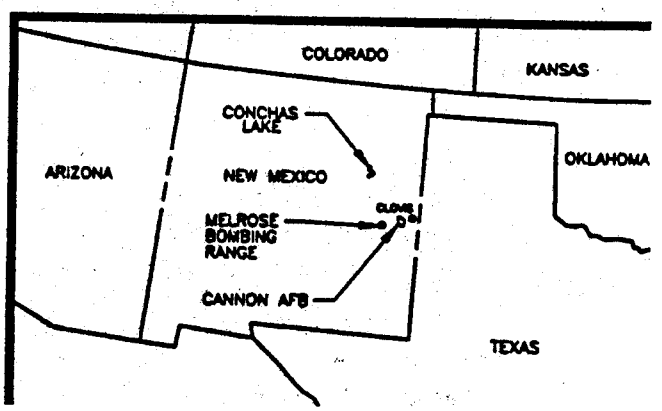
2.2 LF-25 DESCRIPTION AND HISTORY

LF-25 is located in the east-central portion of Cannon AFB, bounded by a road leading to the ordnance area to the north, a road leading to the north side of Playa Lake to the south, the ordnance area to the east, and a perimeter road to the west. The landfill is nearly rectangular in shape, measuring approximately 29 acres, with dimensions approximately 650 feet (ft) by 1,950 ft (Figure 2-2).

From about 1945 through the 1980s, LF-25 was used as a waste disposal site; it is unknown when disposal activities ceased. After World War II, construction demolition debris was disposed of in the landfill. The debris consists of concrete, wood, asbestos tiles, metal, asbestos/cement pipe, and asphalt mixed with soil. Concrete pieces of various sizes and shapes are from demolition of buildings and pavement (runways) at Cannon AFB. Debris extends approximately 3 to 4 ft above natural grade over most of the site, reaching a maximum of approximately 15 ft above natural grade at the north end of the site.

LF-25 was investigated during the Phase IV investigation of an adjacent SWMU. Information from the investigation involved minimal landfill sampling. Two soil borings were sampled, and low levels of





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REMEDIAL ACTION WORK PLAN
SWMU 97--LANDFILL-25

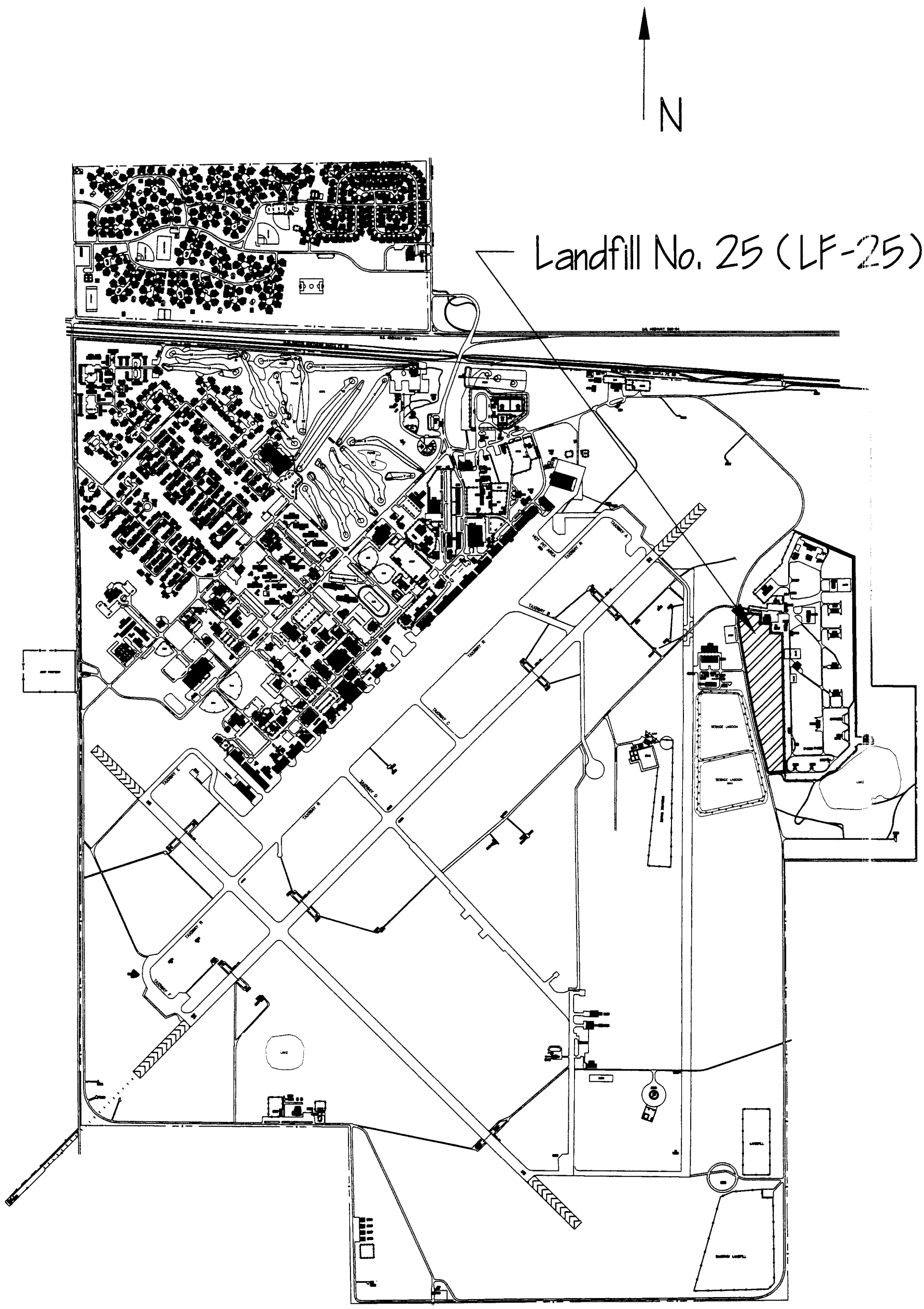
Cannon Air Force Base, New Mexico

U.S. Army Corps of Engineers, Omaha District

Figure 2-1

Base Location Map
Cannon Air Force Base, New Mexico

Foster Wheeler Environmental Corporation



REMEDIAL ACTION WORKPLAN
SWMU 97 – LANDFILL NO. 25

Cannon Air Force Base, New Mexico

U.S. Army Corps of Engineers, Omaha District

Figure 2–2
Location of Landfill No. 25

Foster Wheeler Environmental Corporation
July 5, 2000