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# MANAGEMENT ACTION PLAN



Cannon Air Force Base, New Mexico  
December 1997

12-1-1997

**MANAGEMENT ACTION PLAN**

**Cannon Air Force Base  
Clovis, New Mexico**

**Air Force Project No. MUHJ977544**

**December 1997**

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## ACRONYMS

A-E	Architecture-Engineering
AAFES	Army Air Force Exchange Service
ACC	Air Combat Command
ACL	Alternative Concentration Limits
AFB	Air Force Base
AFCEE	Air Force Center for Environmental Excellence
AFCESA	Air Force Civil Engineering Support Agency
AFS	Air Force Station
ANSCs	Areas of No Suspected Contamination
AOC	Area of Concern
ARARs	Applicable or Relevant and Appropriate Requirements
AST	Aboveground Storage Tank
BCP	Base Comprehensive Plan
BHC	1,2,3,4,5,6 - Hexachlorocyclohexane
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CAFB	CANNON Air Force Base
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPC	Chemical of Potential Concern
CMS	Corrective Measures Study
CRP	Community Relations Plan
CSMs	Conceptual Site Models
DDs	Decision Documents
DDT	Dichlorodiphenyltrichloroethane
DERA	Defense Environmental Restoration Account
DERP	Defense Environmental Restoration Program
DOD	Department of Defense
DPM	Defense Priority Model
DRMO	Defense Reutilization and Marketing Office
DSMOA	Defense-State Memorandum of Agreement
ECP	Environmental Condition of Property
EDMDS	Environmental Data Management and Decision Support
EOD	Explosive Ordnance Disposal
EPA	U.S. Environmental Protection Agency
FFA	Federal Facility Agreement



## ACRONYMS (Continued)

FTA	Fire Training Area
FS	Feasibility Study
FY	Fiscal Year
GSA	General Services Administration
HQ	Headquarters
HRS-II	Hazard Ranking System
IAGs	Interagency Agreements
IRA	Interim Remedial Action
IRP	Installation Restoration Program
IRPIMS	IRP Information Management System
JP-4	Jet Propulsion Fuel
LF	Launch Facility
LTM	Long-Term Monitoring
LTO	Long-Term Operation
MAF	Missile Alert Facility
MAP	Management Action Plan
MCL	Maximum Concentration Limit
MOGAS	Motor Gasoline
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NDDH	North Dakota Department of Health
NEPA	National Environmental Policy Act
NFA	No Further Action
NFRAP	No Further Response Action Planned
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List
O&M	Operation and Maintenance
OSWER	Office of Solid Waste and Emergency Response
OU	Operable Unit
OW	Observation Wells
PA	Preliminary Assessment
PCBs	Polychlorinated Biphenyls
PID	Photoionization Detector
POL	Petroleum, Oils, Lubricants
PP	Proposed Plan
PPE	Pathways, Parameters, and Equations

## ACRONYMS (Continued)

QA	Quality Assurance
QC	Quality Control
RA	Remedial Action
RAAS	Remedial Action Assessment System
RACER	Remedial Action Cost Engineering and Requirements System
RAGS	Risk Assessment Guidance for Superfund
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RNSI	Rational National Standards Initiative
ROD	Record of Decision
RPM	Remedial Project Manager
SAC	Strategic Air Command
SARA	Superfund Amendments and Reauthorization Act
SATF	Site Activation Task Force
SDWA	Safe Drinking Water Act
SI	Site Investigation
SLA	Sanitary Landfill Area
SOW	Statement of Work
SVOCs	Semi-volatile Organic Compounds
SWMU	Solid Waste Management Unit
TAC	Tactical Air Command
TCE	Trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids
THC-FO	Total Hydrocarbons as Fuel Oil
THC-G	Total Hydrocarbons as Gasoline
TOX	Total Organic Halogens
TPH-G	Total Petroleum Hydrocarbons as Gasoline
TPH	Total Petroleum Hydrocarbons
TPM	Technical Project Manager
TRPH	Total Recoverable Petroleum Hydrocarbons
TRC	Technical Review Committee
TSCA	Toxic Substances Control Act

## ACRONYMS (Continued)

<b>TSD</b>	<b>Treatment, Storage, and Disposal</b>
<b>USACE</b>	<b>U.S. Army Corps of Engineers</b>
<b>UST</b>	<b>Underground Storage Tank</b>
<b>VOC</b>	<b>Volatile Organic Compound</b>
<b>WIMS-ES</b>	<b>Work Information Management System - Environmental Subsystem</b>
<b>WORB</b>	<b>Work Order Review Board</b>
<b>WSA</b>	<b>Weapons Storage Area</b>

## 1. INTRODUCTION

Cannon Air Force Base has contaminated areas due to past practices in management of waste, hazardous wastes and compounds, and resource handling. Various Environmental efforts are now in place at Cannon Air Force Base (AFB) (hereafter referred to as the Base) as a response to identify and remediate the contamination. Applicable laws and regulations are being complied with by the Base and are reflected in current waste and resource management practices as practiced by the Air Force, tenant units and as a requirement of future property lessees. Management practices governed by regulation compliance will continue to protect human health and the environment during daily operations at the Base.

This Management Action Plan (MAP) has a two-fold purpose. First, it summarizes the current status of the Base environmental program including restoration and associated environmental compliance projects. Second, it presents a comprehensive strategy for implementing the proper actions necessary to protect human health and the environment. This strategy integrates activities under the Installation Restoration Program (IRP) and the associated environmental compliance programs that support full restoration of the base. The MAP is a dynamic document that will be updated regularly with new information and reflect the completion or change in status of remedial actions (RAs). This MAP was prepared with information available as of December 1997

In light of the ever changing nature of environmental projects this MAP is intended as a planning document only. Information, schedules, and remedial actions presented in this MAP do not necessarily represent those that have been or will be approved by the Air Force or federal and state regulatory agencies. It was necessary to make certain assumptions and interpretations to develop the estimates. As additional data become available, implementation programs and cost estimates could be dramatically altered. Such changes will be reflected in future updates to the MAP.

**Chapter 1** summarizes the objectives of the environmental restoration program; introduces the MAP and Project Team; and provides an operations history that led to the contamination.

**Chapter 2** summarizes the environmental condition of the installation's property with emphasis on the adequacy of previous efforts for source discovery and assessment of existing conditions. It also identifies any off-base property associated with operations at the installation.

**Chapter 3** summarizes the present status of the installation's environmental restoration program, including restoration projects related to environmental compliance issues, and community involvement efforts. Summarizes information on all IRP sites, areas of concern (AOC's), zones and/or operable units.

**Chapter 4** presents strategies and plans for completing the environmental restoration program. Describes management strategies and projects for investigating and remediating contamination, and summarizes remedy selection and community involvement strategies. Presents plans for specific problem areas and their sources by complying with specific programs such as the underground storage tank (UST) program for example.

**Chapter 5** presents a schedule for restoration and restoration-related projects and identifies dates and issues for upcoming Project Team meetings.

**Chapter 6** identifies key program issues to be addressed by the Project Team for implementation. Each program issue has an action item presented and its status is summarized.

The six main chapters of the MAP are followed by these appendices;

**Appendix A** presents historical program costs and future year program costs to meet fiscal year guidance.

**Appendix B** summarizes contractor deliverables by site and project for the environmental restoration program.

**Appendix C** summarizes remedy selection decisions for sites or projects.

**Appendix D** summarizes no further response action planned decisions for sites or projects.

**Appendix E** provides conceptual model data summaries for key sites, zones, or operable units.

## **1.1 ENVIRONMENTAL RESPONSE OBJECTIVES**

- The objectives of the Cannon AFB environmental restoration program are as follows:
- Protect human health and the environment;
- Comply with existing statutes and regulations;
- Meet Cannon AFB's RCRA Hazardous Waste Storage Permit deadlines and/or commitments in other agreements;
- Complete Remedial Investigations (RIs) and/or RFIs as soon as practicable for each IRP/Solid Waste Management Unit (SWMU) site, in order of priority as specified in the Hazardous and Solid Waste Amendments of 1984 (HSWA) Permit Appendices;
- Continue efforts to identify all potential source areas;
- Provide an accurate inventory of the environmental condition of base property (which identifies all potential sites and establishes areas of no suspected contamination, assisted by a restoration Geographic Information System);
- Initiate removal actions where necessary to control, eliminate, or reduce risks to manageable levels;
- Characterize risks associated with releases of hazardous substances, pollutants, contaminants, or hazardous wastes;
- Develop, screen, and select RAs that reduce risks in a manner consistent with statutory requirements;
- Commence RAs as soon as practicable;
- Conduct long-term groundwater monitoring and RAs; and
- Conduct appropriate modifications of the RCRA HSWA permit to have all IRP/SWMUs listed from the permit.

## **1.2 MAP PURPOSE, UPDATES, AND DISTRIBUTION**

This MAP summarizes the status of Cannon AFB's environmental restoration program and presents a comprehensive long-range strategy, plans, and schedules to implement program objectives. It also defines the status of the current effort to resolve scientific and technical issues so that continued progress and implementation of scheduled activities can occur.

The Cannon AFB Project Team will use this MAP to direct and monitor environmental response actions and to schedule activities needed to resolve technical, administrative, and operational issues. This MAP is updated informally on an ongoing basis at the base level and once a year at the headquarters level. Copies of the Cannon AFB MAP will be distributed to the Project Team after every update. The annual update of the Cannon AFB MAP will be distributed to the ELC, RAB, and Headquarters (HQ) USAF.

## **1.3 PROJECT TEAM AND RESTORATION ADVISORY BOARD**

The USAF maintains primary responsibility for conducting restoration and restoration-related compliance investigations and cleanups at Cannon AFB. The U.S. Environmental Protection Agency (EPA) Region VI (Dallas, Texas) and the New Mexico Environmental Department (NMED) provide oversight to the USAF in restoration decision-making processes. For most IRP sites, these actions are being conducted in a manner consistent with RCRA. Funding is provided by the U.S. Department of Defense (DOD) through the DERA and the ECP account.

The Environmental Flight Chief manages the environmental program at Cannon AFB. The 27 CE is part of the 27 Support Group (27 SPTG), under the 27 Fighter Wing (27 FW). Currently, 27 CEV has 30 full-time employees, including 22 civilian and 8 military personnel. It has the primary responsibility to maintain environmental compliance with federal, state, local, DOD, and USAF laws and regulations. 27 CEV has formed a project team to accomplish the goals of Cannon AFB's environmental restoration programs.

The Cannon AFB Project Team is comprised of a core group and associate members. The Project Team is led by the base Remedial Project Manager (RPM) from 27 CEV. In addition to the base RPM, other core team members include representatives from HQ Air Combat Command (ACC), EPA Region VI, and the NMED. The core Project Team meets on an as-needed basis to address and resolve base restoration issues. Table 1-1 lists the current Project Team members and specifies their roles and responsibilities.

Topics of discussion and procedures for team members can include the following:

- Maintaining communication among all team members on an as-needed basis for review and discussion of the progress of work being performed at the Base. Communication may include correspondence, telephone conferences, and, if necessary, formal meetings.
- Preparing periodic summaries from the RPM of the status of the environmental restoration work at the Base and distributing them to other team members.
- Communicating through telephone conferences among team members the status of the work being conducted.
- Discussing issues related to the progress of the work being performed.

- Providing approval of minor modifications to the work being performed.
- Documenting teleconferences and, when necessary, following up in writing to all team members.

Associate members include representatives from four Cannon AFB offices: (1) the CEV office, (2) the Judge Advocate office, (3) the Bioenvironmental Engineering office, and (4) the Public Affairs office. Other associate members include the RFI contractor, Defense and State Memorandum of Agreement contacts, and the ELC and RAB members. Associate Project Team members are consulted when their areas of expertise are required.

The Cannon AFB ELC was established to keep the Major Command updated on the entire environmental program at the Base. The ELC meets to discuss all environmental programs, including the IRP. Table 1-2 provides a list of the primary ELC members. The Cannon AFB RAB was established in August 1995 to provide a forum for the exchange of information between the Base and the community. It is composed of USAF and community members that meet regularly to review and comment on technical documents and proposed RAs. Table 1-3 provides a list of the primary RAB members.

**TABLE 1-1**

**CURRENT CANNON AFB PROJECT TEAM MEMBERS**

**Management Action Plan  
Cannon AFB, New Mexico**

<b>CORE TEAM MEMBERS</b>			
<b>Name</b>	<b>Title</b>	<b>Telephone</b>	<b>Role/Responsibility</b>
Vacant			Lead USAF Project Manager
Mr. John Pike	Base RPM	505-784-4348	Remedial Project Manager
Mr. Sanford Hutsell	Base RPM	505-784-6378	Remedial Project Manager
Ms. Margaret Patterson	ACC CES/ESV	757-764-9323	USAF Program Manager
Lt. Col. Kenneth Singel	BCE	505-784-2008	Cannon AFB - BCE
Vacant	UST Project Manager		Cannon AFB - UST Project Manager
Captain Philip Preen	BEE	505-784-4063	Cannon AFB - BEE
Captain Marcie Lawson	Staff JA	505-784-	Cannon AFB -
Captain Claudia Foss	Public Affairs	505-784-4131	Cannon AFB - Public Affairs
<b>EPA and State Regulatory Members</b>			
Mr. Rich Mayer	EPA RPM (Melrose AFR)	214-655-7442	EPA Region VI Project Manager
Mr. Bob Sturdivant	EPA RPM (Cannon AFB)	214-665-7440	EPA Region VI Project Manager
Mr. Carl Will	State RCRA Permit Manager	505-827-1558	NMED-HRMB
Vacant	RPM	505-827-1558	NMED Project Manager
Mr. Jerry Bober	RCRA Technical Manager	505-827-1558	NMED Technical Manager



**TABLE 1-1**  
**CURRENT CANNON AFB PROJECT TEAM MEMBERS**  
**(CONTINUED)**

DSMOA			
Vacant	State DSMOA	505-827-1558	
Ms. Julie Jacobs	State DSMOA	505-827-1558	NMED
Mr. Paul Lancer	USACE DSMOA Contact	202-272-1176	USACE Contact for DSMOA
Contract Management			
Mr. Steven Peterson	USACE Project Manager	402-221-7183	USACE Contract Management and Oversight
Mr. Jeff Enrenzeller	Project Manager Woodward-Clyde Consultants (Denver)	303-694-2770	USACE Contractor Project Manager
Mr. Steve Cox	Project Manager Woodward-Clyde Consultants (Omaha)	402-334-8181	USACE Contractor Project Manager
Mr. Bob Kewer	Project Manager Harza Environmental (Chicago)	312-831-3812	USACE Contractor Project Manager

ACC = Air Combat Command  
 AFB = Air Force Base  
 AFR = Air Force Range  
 BCE = Base Civil Engineer  
 BEE = Bioenvironmental Engineer  
 DSMOA = Defense and State Memorandum of Agreement  
 EPA = U.S. Environmental Protection Agency  
 HQ ACC/CEVR = Headquarters, Air Combat Command Environmental  
 JAG = Judge Advocate General  
 NMED = New Mexico Environment Department  
 RCRA = Resource Conservation and Recovery Act  
 RPM = Remedial Project Manager  
 USACE = U.S. Army Corps of Engineers  
 USAF = U.S. Air Force  
 UST = Underground Storage Tank

**TABLE 1-2**

**CANNON AFB RESTORATION ADVISORY BOARD MEMBERS**

**Management Action Plan  
Cannon AFB, New Mexico**

<b>Name</b>	<b>Title</b>	<b>Telephone</b>	<b>Affiliation</b>
Col James Thomas III		784-2761	SPTG/CC
Ms. Mona Lee Norman-Armstrong		762-0846	Public
Mr. Tommy Bonner		763-4481	Public
Ms. Millie Boyle		356-5429	Public
Mr. Forrest Carper		784-4195	Public
Mr. Donald W. Davis	Portales Mayor	359-1205	City Government
Mr. Charles R. Ferguson		762-3728	NM Education Outreach
Maj. Christopher Harrell, Retired		359-6892	Public
Mr. Ray Hester	Melrose Mayor	253-4336 253-4274	City Government
Mayor David Lansford	Clovis Mayor	762-6746	City Government
Rev. Anthony Martinez		356-4241	Public
Mr. Dennis Mills		762-4417	Public
Mr. Lawerance Palmer		359-0778 356-6662	Public
Mr. Jimmie N. Richards		356-4830	Public
Mr. R. Dallan Sanders	Community co-chair	356-5966	City Government
Dr. Marvin E. Towne		762-6081 769-3626	Public
Mr. Eldred Noble		762-0474	Public

**TABLE 1-2A**

**CANNON AFB ENVIRONMENTAL LEADERSHIP  
COMMITTEE PRIMARY MEMBERS**

<b>Name</b>	<b>Organization</b>
Col. Thomas A. Gilkey	27 FW/CV
Lt. Col. James A. Thomas III	27 SPTG/CC
Col. John A. Grossi	27 MDG/CC
Col. Michael G. Anderson	27 LG/CC
Lt Col. Tally Smith	27 EMS/CC
Maj. Verdis Redmen	27 SUP/CC
Lt. Col. Kenneth R. Singel	27 CE/CC
Lt. Col. David Wyatt	27 SV/CC
Maj. Nancy E. Frye	27 CRS/CC
Capt. Marcie Lawson	27 FW/JA
Capt. Philip J. Preen	27 AMDS/SGPB
Daniel Barnett	27 CE/CEV
Mr. Cecil Huff	27 FW/SE
Mr. Jim Festa	DECA
Mr. Fermin Montoya	DRMO
SA Daniel Slati	OSI

**1.4 BRIEF HISTORY OF INSTALLATION AND LAND USE**

**1.4.1 Installation History**

Figure 1-1 shows the location of Cannon AFB in Clovis, New Mexico, and Table 1-4 outlines the Base's operational history. Figure 1-2 provides the approximate locations of past hazardous substance and petroleum activities as presented in Table 1-4.

The land the Base currently occupies was originally farmland. In 1929 Portair Field was established as a transcontinental flight civilian air terminal. The DOD took control of Portair Field in 1942 and renamed it Clovis Army Air Base. In its early years as an Army Air Base it

provided training facilities for B-17, B-24, and B-29 air crews during World War II. The Base was deactivated in 1947.

In 1951, the Air Base was reassigned to the Tactical Air Command and reactivated as Clovis AFB, operating P-51s and F-86s. The Base was renamed Cannon AFB in 1957 and operated F-100s. Since 1971, the primary mission of the Base has been to develop and maintain tactical fighter wings composed of various models of the F/EF-111 aircraft. Cannon AFB was reassigned to the ACC on 1 June 1992. In 1995, Cannon AFB began transitioning from F/EF-111 aircraft to F-16 aircraft.

The mission of Cannon AFB is to maintain a combat-ready force capable of day, night, and all-weather operations and to provide replacement training of combat aircrews for tactical organizations worldwide. To support this mission, quantities of petroleum, oils, and lubricants (POL) as well as solvents and protective coatings are used, resulting in waste generation.

The main Base covers approximately 3782 acres (Figure 1-3). Open farmland borders the Base in every direction. Most of the Base is bounded to the north by U.S. Highway 60/84, with the exception of the Chaves Manor Housing Area located north of 60/84. Residences are scattered along the highway in the vicinity of the Base.

#### 1.4.2 Current and Future Land Use

Land uses at Cannon AFB are categorized into 11 functional classes and are described in the most recent Cannon AFB *Commander's Long Range Facility Improvement Plan* (Cannon AFB, 1993).

- **Community:** Land use areas designated for commercial activities, club facilities, indoor recreation, and community services.
- **Administrative:** Land use areas reserved for administrative functions.
- **Housing:** Accompanied and unaccompanied temporary and permanent housing areas.
- **Dormitory:** Unaccompanied housing for unmarried enlisted personnel
- **Industrial:** Land use areas for maintenance, storage, and supply functions not directly related to aircraft.
- **Mission:** Land use areas directly related to the operation, maintenance, and training of aircraft and their crews.
- **Medical:** Land use areas occupied by hospitals, dental clinics, and veterinarian facilities.
- **Outdoor Recreation:** Land use areas designated for outdoor recreation.
- **Open Space:** Conservation areas, wetlands, undeveloped land, and required buffer space (i.e., safety clearances, security areas, utility easements, and environmentally sensitive areas).
- **Airfield:** Active and inactive runways, taxiways, and parking aprons.
- **Special Interest:** Areas which receive enhanced architectural and/or landscaping treatment such as entrance gates.

**Current land use at Cannon AFB is shown on Figure 1-6. Currently, open space, airfields, and air field pavements comprise the greatest percentage of total land area at the Base. Other minor land uses at the Base include housing, outdoor recreation, aircraft operation and maintenance, commercial, administrative, community services, and medical facilities. Planned future land uses at the Base are summarized in Figure 1-7 and discussed in detail in the current Cannon AFB BCP. Figure 1-3 presents the current land use of off-base property surrounding the Cannon AFB boundary. All of this land is shown to be utilized for agricultural purposes, primarily for cattle and crops grown for cattle feed.**