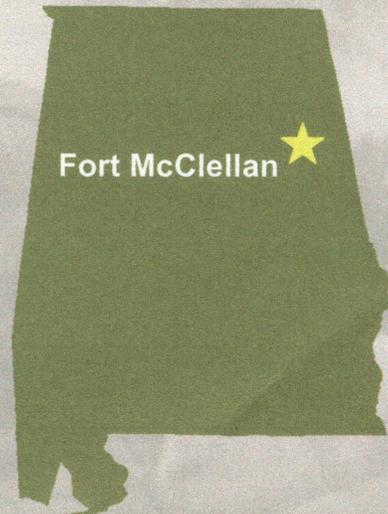




Closed, Transferring, and Transferred Range and Site Inventory Report

FORT MCCLELLAN BRAC PROPERTY, ALABAMA

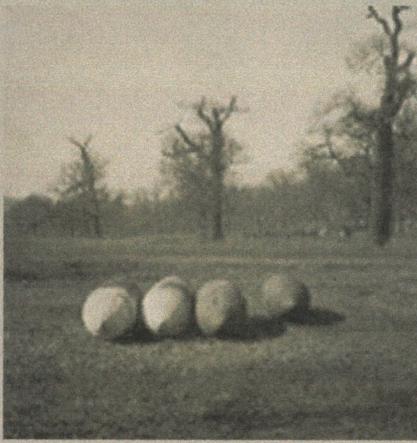
Training and Doctrine Command (TRADOC)



25 June 2003

URS

Final CTT
Inventory Report



FINAL
U.S. ARMY CLOSED, TRANSFERRING, and TRANSFERRED
RANGE and SITE INVENTORY
for
FORT McCLELLAN BRAC PROPERTY, ALABAMA

25 June 2003

Prepared for:
U.S. Army Environmental Center and
Fort McClellan, Alabama

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EXECUTIVE SUMMARY	ES-1
Purpose of the Closed, Transferring, and Transferred Inventory.....	ES-1
Purpose of the Range Inventory Report	ES-2
Summary of Results	ES-2
A. INTRODUCTION	A-1
Background	A-1
Project Drivers.....	A-2
Report Objectives	A-2
Project Participants.....	A-2
B. DEFINITIONS AND DATA REQUIREMENTS	B-1
Inventory Definitions.....	B-1
Inventory Data Requirements.....	B-3
Range and Site Map Requirements.....	B-4
ARID Data Requirements	B-4
Risk Assessment Code Methodology	B-4
DERP Eligibility Determination	B-5
C. INSTALLATION SUMMARY	C-1
Installation Overview and Description.....	C-1
Contractor Team Composition.....	C-6
Installation Points of Contact	C-6
Nature of Data Collection and Coordination	C-6
Summary of Critical Data Sources.....	C-7
D. INSTALLATION CTT RANGE AND SITE DATA	D-1
Methodology and Rationale Used for Range Identification.....	D-1
Summary of CTT Ranges and UXO-DMM-MC Sites.....	D-2
CTT Range and Site Summaries.....	D-2
CTT Range and Site Details Table	D-11
CTT Range and Site Ownership, Use and Access Control Summary Table ...	D-16
DERP Eligibility Table.....	D-17
E. CTT RANGE AND SITE MAPS	E-1

F. ARID DATA FILES	F-1
G. RISK ASSESSMENT CODE (RAC) ANALYSIS	G-1
H. DIGITAL FILES	H-1
I. DOCUMENT LOG	I-1
Reports.....	I-1
Maps.....	I-2
J. NOTES	J-1

ABBREVIATIONS/ACRONYMS

AEC	Army Environmental Center
AI	Active and Inactive
ARID	Army Range Inventory Database
ARS	Advance Range Survey
ASR	Archives Search Report
BG	<i>Bacillus globigil</i>
BRAC	Base Realignment and Closure
CTC	Cost to Complete
CTT	Closed, Transferring, and Transferred
CWM	Chemical Warfare Materiel
DERP	Defense Environmental Restoration Program
DMM	Discarded Military Munitions
DoD	Department of Defense
DOE	Department of Energy
DOJ	U.S. Department of Justice
DSERTS	Defense Site Environmental Restoration Tracking System
EBS	Environmental Baseline Survey
EE/CA	Engineering Evaluation/Cost Analysis
EOD	Explosive Ordnance Disposal
FFID	Federal Facility Identification
FOST	Finding of Suitability to Transfer
FUDS	Formerly Used Defense Site
GIS	Geographic Information System
HE	High Explosive
HTRW	Hazardous, Toxic, and Radiological Waste
IR	Installation Restoration
IRP	Installation Restoration Program
LPA	Limited Public Access
MACOM	Major Command
MC	Munitions Constituents
MMRP	Military Munitions Response Program
MOUT	Military Operations In Urban Terrain
MR	Munitions Response
NFA	No Further Action
NPA	No Public Access
OB	Open Burn
OD	Open Detonation
OE	Ordnance and Explosives
OES	Ordnance and Explosive Site
RI	Remedial Investigation
RAC	Risk Assessment Code
RC	Response Complete
RMIS	Restoration Management Information System
RPA	Restricted Public Access
SM	<i>Serriata marcesens</i>

UPA	Unrestricted Public Access
URS	URS Group, Inc.
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
UXO	Unexploded Ordnance
WP	White Phosphorous

EXECUTIVE SUMMARY

Purpose of the Closed, Transferring, and Transferred Inventory

The Army is conducting its closed, transferring, and transferred (CTT) inventory in three phases to meet immediate, short-term, and long-term needs. Phase 1 involved a data call issued to each U.S. Army Major Command (MACOM) requesting general information about ranges on their installations. This phase, referred to as the Advance Range Survey (ARS), allowed the Army to meet its immediate needs; however, a more detailed inventory was necessary. The Army divided the detailed follow-on inventory into two parts, an active and inactive (A/I) inventory (Phase 2) and a CTT inventory (Phase 3).

A Phase 2 inventory was performed for the non-Base Realignment and Closure (BRAC) portion of Fort McClellan. Approximately 290 acres of Fort McClellan are being retained by the Alabama National Guard. This retained acreage contains six active ranges totaling 40.5 acres in area. The remainder of the installation has been included under 1995 BRAC, and all ranges on the BRAC property are in transferring or transferred status.

This CTT inventory began as an inventory of U.S. Army CTT ranges. However, as a result of the congressional requirements outlined in the Defense Authorization Act of 2002 (Public Law 107-107) and resultant changes to the Defense Environmental Restoration Program (DERP), the CTT inventory is a comprehensive inventory of both CTT ranges and other defense sites with unexploded ordnance, discarded military munitions, and/or munitions constituents (UXO-DMM-MC). All locations previously or currently owned, leased, or possessed by the Department of Defense (DoD) (except those currently classified as A/I ranges or permitted military munitions treatment and/or disposal facilities) are included in this inventory. The U.S. Army Environmental Center (AEC) is the Program Manager for the Army's CTT inventory at BRAC sites. This inventory specifically focuses on non-A/I areas within the BRAC parcel, and areas associated with the installation that may have been used in the past for ordnance-related testing or training, except where such properties are defined as Formerly Used Defense Sites (FUDS). FUDS properties are being inventoried under a separate effort.

Specific requirements of the CTT inventory for Fort McClellan included (1) mapping the CTT military ranges and UXO-DMM-MC sites; (2) collecting and preparing data to be uploaded into the Army Range Inventory Database (ARID); (3) conducting an assessment of explosives safety risk using the Risk Assessment Code (RAC) methodology for each CTT military range or site containing UXO or DMM identified in the inventory; and (4) determining which sites on the inventory qualify for the Military Munitions Response Program (MMRP).

The data collection portion of the CTT inventory was conducted during site visits in October 2001, April 2002, and October 2002. While on-site, the CTT inventory team reviewed historical records and interviewed installation personnel concerning potential CTT ranges and UXO-DMM-MC sites. This report summarizes the CTT inventory conducted at Fort McClellan and presents the inventory findings.

Purpose of the Range Inventory Report

The purpose of this report is to present the results of the CTT inventory for the Fort McClellan BRAC and non-FUDS transferred property in Calhoun County, Alabama. The report includes an individual CTT map for the installation, a copy of the data tables that will be submitted electronically to AEC for uploading into ARID, completed RAC worksheets for all sites that may potentially contain UXO or DMM, DERP eligibility determination, and identification of which ranges and sites qualify for the MMRP. Although an exhaustive archive search was not performed for this inventory, historical research was performed to identify sites subject to this inventory, including locations, periods of use, the types of ordnance used, and other specific information regarding the site. The majority of these data were obtained by reviewing installation records and interviewing personnel at, or involved with, the BRAC property at Fort McClellan. Although the data presented in this report are believed to be accurate, they have not been verified by inspection or field sampling.

Summary of Results

Fort McClellan [Federal Facility Identification (FFID): AL213720562] is a former training installation selected for closure under the 1995 BRAC round. Its history began in 1898 during the Spanish-American War, when the Fourth Alabama Artillery began using the Choccolocco Mountains as the backdrop for their training. National Guard artillery units trained on the 1,160-acre site from 1912 through 1916. In 1917, Congress appropriated funds to purchase an additional 17,837 acres for the construction of additional artillery ranges. On 18 July 1917, the War Department named Camp McClellan as one of 16 cantonment camps for the training of National Guard units and assigned the 29th Infantry Division to the camp. In 1929, Camp McClellan was made a permanent Army post and redesignated as Fort McClellan. From World War I through World War II, infantry and artillery units were trained to use mortars, anti-tank guns, and artillery pieces. Rifle, pistol, and machine gun ranges were also used for training.

Training at Fort McClellan remained the same through the Inter-War Period (1919–1940) and the World War II era (1941–1945), with the exception of the additions of chemical warfare activities (1922) and tank training (1940). Chemical and biological warfare training activities began in the early 1950s and continued through 1973. After a 6-year hiatus, chemical warfare activities resumed. Military use continued through 1999. In all, there are over 100 ranges at Fort McClellan.

The installation has undergone extensive environmental investigation, and remediation has been conducted on several parcels. Environmental sampling has been conducted over many portions of the installation to identify areas containing potential ordnance and explosives (OE) and chemical warfare materials (CWM). For the purposes of OE and UXO assessment, cleanup, as prioritized by the expected order of land transfer, Fort McClellan was divided into six main assessment areas — Alpha (FTMC-244), Bravo (FTMC-245), Charlie (FTMC-242), Chemical Warfare Material (CWM) sites (FTMC-246), Eastern Bypass (FTMC-240), M1.01 (FTMC-241), and MT (FTMC-241) — based on the Engineering Evaluation/Cost Analysis (EE/CA) for each. Another two Defense Site Environmental Restoration Tracking System (DSERTS) numbers are assigned to Small Arms Ranges (FTMC-140) and Historic Small Arms Ranges (FTMC-144). Two individual ranges, Sandell Flamethrower Range (FTMC-068) and Trench Hill (no DSERTS number) are also discussed. The EE/CA process for CWM ranges was completed in June 2002. EE/CA documents for the remaining areas were in preparation at the time this inventory was prepared, and data concerning UXO presence and density were not available. However, UXO-DMM was found in all EE/CA areas. In the absence of specific location data, it was assumed that the entire EE/CA area had the potential to contain munitions. There are six Active/Inactive ranges reported by Phase I, for a total of 40.5 acres.

- **Closed:** 0 acres
- **Transferring:** 4,969.5 acres
- **Transferred:** 9,023.7 acres

As part of the CTT inventory, the CTT inventory team performed an assessment of explosives safety risk using the RAC process for each CTT military range and UXO-DMM site in the CTT inventory. RAC scores are not appropriate for sites containing only MC. The RAC process essentially involves completion of a worksheet that consists of a series of questions regarding historical use of the range. As the worksheet is completed, it defines a relative overall score (RAC score) for each military range. The RAC score is an estimate of the relative explosive safety risk before cleanup activities, which is reported as a number from 1 [high explosives (HE) safety risk] to 5 (negligible explosives safety risk). Response actions at a site may serve to reduce the explosive safety risk, but will not change the RAC score. The following is a description of the RAC scores.

RAC 1	High Risk - Highest priority for further action.
RAC 2	Serious Risk - Priority for further action.
RAC 3	Moderate Risk - Recommend further action.
RAC 4	Low Risk - Recommend further action.
RAC 5	Negligible Risk - Indicates that no DoD action is necessary.

The results of the CTT inventory for Fort McClellan are summarized in Table ES-1.

Table ES-1: CTT Range and Site Details

Installation	Range or Site Name	Classification	Total Area (Acres)	Munitions Type(s)	Munitions Constituents	RAC Score ^a	DER Eligibility
Fort McClellan	Alpha EE/CA Area	Transferring	930.0	Flares, Signals, Simulators, or Screening Smoke (Other than WP); Gas ID Sets; Ground Rockets, Rifle Grenades (Smoke, WP, Incendiary); Ground Rockets, Rifle Grenades, Live; Hand Grenades (Smoke, WP, Incendiary); Hand Grenades, Live; Hand Grenades, Practice; Large Caliber (37mm and Larger) (Smoke, WP, Incendiary); Large Caliber (37mm and Larger), HE; Large Caliber (37mm and Larger), Practice; Medium Caliber (20mm, 25mm, 30mm, HE; Medium Caliber (20mm, 25mm, 30mm), Practice; Mortars, (WP, Incendiary, Illumination, Smoke); Mortars, HE; Practice Ordnance (Without Spotting Charges); Pyrotechnics; Secondary Explosives (PETN, CMP ABC, TETRYL, TNT, RDX, HMX, HBX, BK PWDER); Small Arms; Small Arms (Complete Rounds); Toxic Chemical Munitions	Unknown	1	MR
Fort McClellan	Bravo EE/CA Area	Transferring	3,387.0	Flares, Signals, Simulators, or Screening Smoke (Other than WP); Ground Rockets, Rifle Grenades (Smoke, WP, Incendiary); Ground Rockets, Rifle Grenades, Live; Hand Grenades (Smoke, WP, Incendiary); Hand Grenades, Live; Hand Grenades, Practice; Large Caliber (37mm and Larger) (Smoke, WP, Incendiary); Large Caliber (37mm and Larger), HE; Large Caliber (37mm and Larger), Practice; Medium Caliber (20mm, 25mm, 30mm, HE; Medium Caliber (20mm, 25mm, 30mm), Practice; Mortars, (WP, Incendiary, Illumination, Smoke); Mortars, HE; Practice Ordnance (Without Spotting Charges); Pyrotechnics; Small Arms; Small Arms (Complete Rounds); Toxic Chemical Munitions	Unknown	1	MR

U.S. Army CTT Range and Site Inventory Fort McClellan BRAC Property, Alabama

Installation	Range or Site Name	Classification	Total Area (Acres)	Munitions Type(s)	Munitions Constituents	RAC Score ^a	DERP Eligibility
Fort McClellan	Charlie EE/CA Area	Transferred	8,566.0	Flares, Signals, Simulators, or Screening Smoke (Other than WP); Ground Rockets, Rifle Grenades (Smoke, WP, Incendiary); Ground Rockets, Rifle Grenades, Live; Hand Grenades (Smoke, WP, Incendiary); Hand Grenades, Live; Hand Grenades, Practice; Large Caliber (37mm and Larger) (Smoke, WP, Incendiary); Large Caliber (37mm and Larger), HE; Large Caliber (37mm and Larger), Practice; Medium Caliber (20mm, 25mm, 30mm, HE; Medium Caliber (20mm, 25mm, 30mm), Practice; Mortars, (WP, Incendiary, Illumination, Smoke); Mortars, HE; Practice Ordnance (Without Spotting Charges); Pyrotechnics; Small Arms; Small Arms (Complete Rounds); Toxic Chemical Munitions	Unknown	1	MR
Fort McClellan	Chemical Warfare Materiel Complex	Transferring	19.8	Biological Munitions; Gas ID Sets; Riot Control Agents; Toxic Chemical Munitions	Unknown	1	Other
Fort McClellan	Chemical Warfare Materiel Complex - XD	Transferred	13.0	Gas ID Sets; Riot Control Agents; Toxic Chemical Munitions	Unknown	1	Other

U.S. Army CTT Range and Site Inventory Fort McClellan BRAC Property, Alabama

Installation	Range or Site Name	Classification	Total Area (Acres)	Munitions Type(s)	Munitions Constituents	RAC Score ^a	DER Eligibility
Fort McClellan	Eastern Bypass EE/CA Area	Transferring	290.0	Flares, Signals, Simulators, or Screening Smoke (Other than WP); Ground Rockets, Rifle Grenades (Smoke, WP, Incendiary); Ground Rockets, Rifle Grenades, Live; Hand Grenades (Smoke, WP, Incendiary); Hand Grenades, Live; Hand Grenades, Practice; Large Caliber (37mm and Larger) (Smoke, WP, Incendiary); Large Caliber (37mm and Larger), HE; Large Caliber (37mm and Larger), Practice; Medium Caliber (20mm, 25mm, 30mm, HE; Medium Caliber (20mm, 25mm, 30mm), Practice; Mortars, (WP, Incendiary, Illumination, Smoke); Mortars, HE; Practice Ordnance (Without Spotting Charges); Pyrotechnics; Small Arms; Small Arms (Complete Rounds); Toxic Chemical Munitions	Unknown	1	MR
Fort McClellan	Eastern Bypass EE/CA Area-XD	Transferred	271.7	Flares, Signals, Simulators or Screening Smoke (Other than WP); Hand Grenades (Smoke, WP, Incendiary)	Unknown	3	MR
Fort McClellan	M1.01 EE/CA Area	Transferring	92.2	Flares, Signals, Simulators, or Screening Smoke (Other than WP); Hand Grenades (Smoke, WP, Incendiary); Landmine, Practice (With Spotting Charges); Practice Ordnance (Without Spotting Charges); Pyrotechnics	Unknown	2	MR
Fort McClellan	M2 EE/CA Area	Transferred	20.3	Flares, Signals, Simulators, or Screening Smoke (Other than WP); Mortars, Practice; Practice Ordnance (Without Spotting Charges)	Unknown	2	Other
Fort McClellan	Sandell Flame-thrower Range	Transferred	11.1	Other	No	NA	Other
Fort McClellan	Small Arms Complex-XD	Transferred	52.2	Small Arms	Yes	5	IR
Fort McClellan	Small Arms Complex-XG	Transferring	196.3	Small Arms	Unknown	5	IR

U.S. Army CTT Range and Site Inventory Fort McClellan BRAC Property, Alabama

Installation	Range or Site Name	Classification	Total Area (Acres)	Munitions Type(s)	Munitions Constituents	RAC Score ^a	DERP Eligibility
Fort McClellan	Trench Hill Training Area-XD	Transferred	89.4	Hand Grenades (Smoke, WP, Incendiary)	Unknown	4	Other
Fort McClellan	Trench Hill Training Area-XG	Transferring	54.2	Hand Grenades (Smoke, WP, Incendiary)	Unknown	4	Other

^a NA indicates that the site is a munitions constituent site, and therefore, RAC scores have not been prepared.

^b Biological agent simulators SM and BG.

IR = Installation Restoration

MR = Munitions Response