# Closed, Transferring, and Transferred Range and Site Inventory Report

# WINGATE DEPOT ACTIVITY BRAC PROPERTY, NEW MEXICO

## Army Materiel Command


## 24 June 2003

URS

## Final CTT Inventory Report

URS

24 June 2003

Mr. Samuel Bryant
U.S. Army Environmental Center
5179 Hoadley Road
Aberdeen Proving Ground, MD 21010-5401

Subject: Transmittal of Final BRAC CTT Range Inventory Report for Wingate Depot Activity BRAC Property

Dear Mr. Bryant:

URS Group, Inc. is pleased to submit two copies of the subject Final BRAC CTT Range report. Each document consists of text, a CTT Range and UXO-DMM-MC Sites Map, a printout of ARID data, and RAC score sheets. CDs containing the GIS data submittal are also included.

A test of the ARID data is being submitted through electronic mail. Following a successful ARID upload, CDs containing the final and approved ARID data will be submitted to all report recipients.

If you have questions or comments, please call me at (865) 220-8134.

Sincerely,

*John Reddy for*
Thomas D. Sherrod
Project Manager

c/enc: National Capital Region Field Office (Mr. Davidson) (1 cy)
BRACO (Ricky Stauber) (1 cy)
Installation (Mr. Davis) (1 cy)
J. Reddy (1 cy)
R. Marshall (electronic)

URS Group, Inc.
1093 Commerce Park Drive, Suite 100
Oak Ridge, TN 37830-8029
Tel: 865.483.9870
Fax: 865.483.9061

# DOCUMENT REVIEW RECORD

**DOCUMENT PREPARER:** URS Group, Inc.
**DOCUMENT TITLE:** CTT Inventory Report, Wingate Depot Activity, BRAC Property
**DOCUMENT NUMBER:** 0111071
**DATE TRANSMITTED:** 2 May 2003

| Section, Paragraph, Page | REVIEWER COMMENT | PREPARER RESPONSE |
|---|---|---|
| 1. General Comment | Please add an additional site to Section D, "Functional Test Range 1" DSERTS site number FTWG – 25 , UXO flagged, which is not response complete. The site needs to be "MR eligible" in table D-5. It is located inside of the A/I footprint and a note/footnotes need to be added in section D that it is a "special case" in which site clean-up is required before land transfer/ per an agreement made prior to the existence of MMRP. Please see notes regarding mapping in comment # 10 below. Include this site acreage in both the A/I total and the CTT total with an asterisk on the A/I total indicating that a portion is being counted as CTT because of the special circumstances. Additional information will be faxed providing details. Additionally Larry Fisher, BEC can provide additional information. | Functional Test Range 1 – MR Parcel has been added in accordance with guidance in this comment and with input from Mr. Roger Walton. The entirety of FTR 1 is not included, as Mr. Walton states "MR eligible will be only the 37.5 acre rectangle shown on fax page 6." The area identified by the fax from Mr. Walton was shown as closed, counted as MR eligible, and double-counted with the A/I acreage. |
| 2. Page ES-3, Table ES-1, Deactivation Furnace | See comment #9 below. | Acknowledged and accepted. |
| 3. Page ES-4, Table ES-1, Sewage Treatment Plant | Change the DERP Eligibility from "MR" to "IR" to match the rest of the report. | Acknowledged and accepted. |
| 4. Page C-1, 3rd paragraph | The Executive Summary has the installation's history back to 1868(the active installation CTT report says 1850), but the history presented here only goes back to 1942. The Summary should not contain information that is not in the report itself. Please "beef" up this section to at least include all the history provided in the Summary that is not here. Also include a discussion of the OB/OD Grounds, 1807 acres (and associated "transferred" (kick out area) site, 234 acres, to its west), DSERTS (FTWG-05) which are both to the south of the A/I area and indicate that the sites are identified in the active installation CTT report for White Sands Missile Range/.Ft. Wingate and are MR eligible. | Acknowledged and accepted. |

# DOCUMENT REVIEW RECORD

**DOCUMENT PREPARER:** URS Group, Inc.
**DOCUMENT TITLE:** CTT Inventory Report, Wingate Depot Activity, BRAC Property
**DOCUMENT NUMBER:** 0111071
**DATE TRANSMITTED:** 2 May 2003

| Section, Paragraph, Page | REVIEWER COMMENT | PREPARER RESPONSE |
|---|---|---|
| 10. Tab E, Map | See comment #5 above. Please identify the Functional Test Range 1 within the A/I footprint and color it light green (closed). Also need to remove the OB/OD Grounds from the bottom portion of the A/I footprint and show it on the map. Are the existing 4 sites included in the Phase 3 inventory the ONLY non-transferred land under BRAC? If not, please shade the other non-transferred property gray. | Acknowledged and accepted. |
| 11. Tab F, ARID Files | a. Range Table, Building 503: A) The write-up and the RAC score sheet state that this site is 2.4 acres, but you are only reporting 0.01 acres in ARID. These numbers must match. B) Please change the Historic End Year to "1967" to match the site write-up.<br>b. Range Table, Deactivation Furnace: The write-up and the RAC score sheet says this site is 20.9 acres, but you are only reporting 0.06 acres in ARID. Fix.<br>c. Range Table, Sewage Treatment Plant: The write-up and the RAC score sheet says this site is 9.9 acres, but you are only reporting 5.09 acres in ARID. Fix.<br>d. RMIS Information Table: This table should only be provided if the site's eligibility equals MR! | Acknowledged and accepted. |
| **REVIEWED BY:** Army Environmental Center<br>**DATE:** 9 June 2003 | | **RESPONSE BY:** URS Group, Inc.<br>**DATE:** 24 June 2003 |

# FINAL
# U.S. ARMY CLOSED, TRANSFERRING, and TRANSFERRED RANGE AND SITE INVENTORY for WINGATE DEPOT ACTIVITY BRAC PROPERTY, NEW MEXICO

**24 June 2003**

**Prepared for:**
**U.S. Army Environmental Center and**
**Fort Wingate, New Mexico**

**Prepared by:**

**URS Group, Inc.**
**1093 Commerce Park Drive**
**Suite 100**
**Oak Ridge, Tennessee 37830-8029**

## ABBREVIATIONS/ACRONYMS

| | |
|---|---|
| AEC | Army Environmental Center |
| A/I | Active and Inactive |
| ARID | Army Range Inventory Database |
| ARS | Advance Range Survey |
| ASR | Archives Search Report |
| BIA | Bureau of Indian Affairs |
| BMDO | Ballistic Missile Defense Organization |
| BRAC | Base Realignment and Closure |
| CTC | Cost to Complete |
| CTT | Closed, Transferring, and Transferred |
| DERA | Defense Environmental Restoration Account |
| DERP | Defense Environmental Restoration Program |
| DMM | Discarded Military Munitions |
| DoD | Department of Defense |
| DOE | U.S. Department of Energy |
| DSERTS | Defense Site Environmental Restoration Tracking System |
| EOD | Explosive Ordnance Disposal |
| FFID | Federal Facility Identification |
| FUDS | Formerly Used Defense Sites |
| GIS | Geographic Information System |
| IRP | Installation Restoration Program |
| LPA | Limited Public Access |
| MACOM | Major Command |
| MC | Munitions Constituents |
| MMRP | Military Munitions Response Program |
| NPA | No Public Access |
| OB | Open Burn |
| OD | Open Detonation |
| OE | Ordnance and Explosives |
| R&D | Research and Development |
| RAC | Risk Assessment Code |
| RC | Response Complete |
| RCRA | Resource Conservation and Recovery Act |
| RDX | Research Demolition Explosive |
| RPA | Restricted Public Access |
| RMIS | Restoration Management Information System |
| TNT | Trinitrotoluene |
| UPA | Unrestricted Public Access |
| URS | URS Group, Inc. |
| USACE | U.S. Army Corps of Engineers |
| UXO | Unexploded Ordnance |
| Wingate | Wingate Depot Activity |
| WMM | Waste Military Munitions |
| WP | White Phosphorus |

# DOCUMENT REVIEW RECORD

**DOCUMENT PREPARER:** URS Group, Inc.
**DOCUMENT TITLE:** CTT Inventory Report, Wingate Depot Activity, BRAC Property
**DOCUMENT NUMBER:** 0111071
**DATE TRANSMITTED:** 2 May 2003

| Section, Paragraph, Page | REVIEWER COMMENT | PREPARER RESPONSE |
|---|---|---|
| 5. Page C-1, 4th paragraph | This paragraph discusses the different parcels (active and BRAC) and their current status. Some improvement has been made since the pre-draft version of the document, but more work is still needed to clarify the text (reference prior comment on Tab E, Maps). You state that the total installation acreage equals 21,812 acres and that "half" was transferred to Native American tribes (I calculate half to be 10,906 acres) and the other "half" remained with the Army under BMDO (that would be the other 10,906 acres). However, the A/I inventory found only 8,321 acres (actually 6,525 acres when you subtract the OB/OD grounds) of operational ranges, leaving 2,585 acres(plus the 1807 acres for OB/OD grounds) with the Army, but not transferred. The 4 closed ranges/sites you have in your report total about 577 acres, leaving approximately 2,008 acres unaccounted for. One would assume these 2,008 acres would be shaded gray on your map, but there is no land shaded gray. Please properly account for all acres in the final report. | Acknowledged and accepted. |
| 6. Page D-2, Building 503, 3rd paragraph, lines 2&3 | Delete "(located in the currently active area of the base)". | Acknowledged and accepted. |
| 7. Page D-2, Deactivation Furnace | See comment #9 below. | Acknowledged and accepted. |
| 8. Page D-2, Functional Test Range, line 3 | Insert a comma between "1950s" and "flare". | Acknowledged and accepted. |
| 9. Page D-5, Table D-4/D-5, Deactivation Furnace | In addition to the information presented in the report, this site, is associated with FTWG-07 which is not UXO-flagged, and not response complete. The CTC does include all munitions related clean-up however. The site should be assigned a DERP eligibility of IR. | Acknowledged and accepted. |

During the CTT inventory, two CTT ranges and three UXO-DMM-MC sites were identified on Wingate. The estimated total acreage the CTT range and UXO-DMM-MC sites is:

- **Closed:** 655.7 acres
- **Transferring:** 0 acres
- **Transferred:** 0 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 Wingate 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 | DERP Eligibility |
|---|---|---|---|---|---|---|---|
| Wingate | Building 503 | Closed | 2.4 | Secondary Explosives (PETN, CMP ABC, Tetryl, TNT, RDX, HMX, HBX, BK Powder) | Y | 4 | IR |
| Wingate | Deactivation Furnace | Closed | 20.9 | Large Caliber (37mm and Larger), (Smoke, WP, Incendiary); Medium Caliber (20mm, 25mm, 30mm), HE | N | 3 | IR |

# 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).

Wingate Depot Activity (Wingate) was realigned under the 1988 round of Base Realignment and Closure (BRAC). An A/I inventory was performed for that portion of the installation retained by the U.S. Army. No A/I inventory was performed for that portion of the installation that was closed and identified for transfer.

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 CTT 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 executor of the 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 Wingate 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 in February 2002 and involved a site visit to the installation. While on-site, the CTT inventory team

| Installation | Range or Site Name | Classification | Total Area (Acres) | Munitions Type(s) | Munitions Constituents | RAC Score | DERP Eligibility |
|---|---|---|---|---|---|---|---|
| Wingate | Functional Test Range 1 – MR Parcel | Closed | 37.5 | Flares, Signals Simulators, or Screening Smoke (Other than White Phosphorus); Hand Grenades, Practice; Secondary Explosives (PETN, CMP ABC, Tetryl, TNT, RDX, HMX, HBX, BK Powder) | N | 4 | MR |
| Wingate | Functional Test Range 2/3 | Closed | 585.0 | Flares, Signals, Simulators, or Screening Smoke (Other than White Phosphorus); Hand Grenades, Practice | N | 4 | Other |
| Wingate | Sewage Treatment Plant | Closed | 9.9 | Large Caliber (37mm and Larger), HE; Medium Caliber (20mm, 25mm, 30mm), HE | N | 3 | IR |

IR = Installation Restoration
MR = Study completed; no response required

reviewed historical records and interviewed installation personnel concerning potential CTT ranges and UXO-DMM-MC sites. This report summarizes the CTT inventory conducted at Wingate 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 Wingate located in McKinley County, New Mexico, just east of the city of Gallup. The report includes an individual CTT range and site 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, Wingate. Although the data presented in this report are believed to be accurate, they have not been verified by inspection or field sampling. Therefore, it is possible that additional ranges or sites may be discovered in the future.

## Summary of Results

Wingate [Federal Facility Identification (FFID): NM213820974] is a former ammunition supply depot closed under the first BRAC round in 1988. The history of Wingate dates back to 1868 when it was built to provide oversight of the Navajo homeland. Troops were garrisoned at Wingate until 1917. Wingate provided patrol, escort, and survey services. In 1916, the installation was originally called the Wingate Ordnance Depot and became a storage area for explosives. By 1928, the mission changed to include that of packing and shipping explosives. The present Wingate was established in 1941 in support of the United States' entry into World War II. The mission of Wingate was to provide services as a supply depot, providing for the receipt, storage, issue, maintenance, and disposal of assigned commodities.

Wingate encompasses 34 square miles (22,120 acres). It is mostly surrounded by undeveloped ranch land used predominately for grazing and is a prime wildlife habitat.

Approximately 8,321 acres are retained by DoD for use by the Ballistic Missile Defense Organization (BMDO) and is known as Fort Wingate Missile Launch Complex. Of this retained land, approximately 6,460 acres were identified as active or inactive range. The remaining acreage is closed and is slated for transfer to the private sector in parcels after remediation has been completed.

# A. INTRODUCTION

The U.S. Army is in the process of inventorying all of its past and current military ranges to support its range sustainment and munitions response programs. The Army is conducting the inventory in a series of phases, the first and second phases only addressed properties meeting the definition of a military range. The third phase involves an inventory of closed, transferring, and transferred (CTT) military ranges and unexploded ordnance, discarded military munitions, and munitions constituents (UXO-DMM-MC) sites. This report documents the results of the CTT inventory for Wingate Depot Activity (Wingate) Base Realignment and Closure (BRAC) property located in McKinley, New Mexico.

## Background

The Army is conducting the range inventory in a series of three phases to meet immediate, short-term, and long-term planning needs. Phase 1 involved a data call issued through the Army Environmental Center (AEC) requesting general information about ranges on various installations under each U.S. Army Major Command (MACOM). Phase 1 was conducted using a questionnaire called the Advance Range Survey (ARS). The purpose of the ARS was to allow the Army to meet the short-term data goal of supporting the Department of Defense (DoD) response to Senate Report 106-50. The Wingate ARS data were submitted to AEC and compiled into a master database.

The ARS allowed the Army to meet its short-term needs; however, the Army's long-term needs required a more detailed inventory of its military ranges that was not achievable through the ARS. For management and budgetary reasons, the Army divided the detailed follow-on inventory into two phases: Phase 2 covers active and inactive (A/I) military ranges, while Phase 3 is slightly broader and covers all CTT military ranges and UXO-DMM-MC sites.

Wingate was realigned under the 1988 round of BRAC. An A/I inventory was performed for that portion of the installation retained by the U.S. Army, but none was required for portions of the installation that were closed and subsequently transferred.

This CTT inventory is a comprehensive inventory of both CTT military ranges and UXO-DMM-MC sites. All locations previously or currently owned, leased, or otherwise possessed by the Army and all such properties previously owned, leased, or possessed by DoD are included in this inventory. However, properties currently classified as operational (A/I) ranges or permitted military munitions treatment and/or disposal facilities are excluded. Closed ranges and sites are no longer in use and have no potential future use as ranges and sites, but remain under military control. A range or site is referred to as transferring if it is no longer being used and is proposed to be released from military control within the next year. A range or site is considered transferred at the time it is officially released from military control.

Wingate. The Project Manager from URS is Mr. Tom Sherrod. The data collection team leader for the Wingate CTT inventory was Mr. John Reddy.

Wingate offices and personnel were contacted and interviewed as part of the CTT inventory. The Wingate primary point of contact for the CTT inventory was Mr. Duke Davis, Installation Caretaker.

Properties that are owned by DoD but leased to other entities are not transferred. Further definitions are provided in Section B.

Initial pre-site visit coordination was accomplished by telephone and e-mail to collect the CTT inventory data. Follow-up coordination occurred by e-mail on several occasions in September 2001. The site visit to Wingate was conducted on 26–27 March 2002. While on-site, the CTT inventory team reviewed historical records and interviewed appropriate installation personnel.

## Project Drivers

There are several drivers for the CTT inventory, including Defense Environmental Restoration Program (DERP), as amended by the Defense Authorization Act of 2002 (Public Law 107-107), federal financial accounting standards, and DoD guidance. The most important driver is the DERP. DERP requires an "inventory of defense sites that are known or suspected to contain UXO-DMM-MC" be conducted and completed by 31 May 2003. The revised Management Guidance for the DERP (September 2001) created the Military Munitions Response Program (MMRP) and outlines the specific program requirements for the CTT inventory. Federal financial accounting standards require DoD to determine the estimated cost of cleaning up sites under the MMRP and report this cost in its annual financial statements. A complete inventory of CTT ranges and UXO-DMM-MC sites will ensure that future financial reporting estimates are defensible and supported by accurate data.

## Report Objectives

The objective of this report is to present the results of the CTT inventory for Wingate BRAC property. 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, and types of ordnance used. The majority of these data were obtained by reviewing installation records and interviewing personnel at, or involved with, Wingate.

## Project Participants

AEC is the Program Manager for the Army's CTT inventory. AEC provides overall management and guidance, identifies significant issues, develops and maintains the Army Range Inventory Database (ARID), defines achievable schedules and milestones, coordinates with relevant U.S. Army organizations, and reports on the inventory's status. The Project Manager at AEC is Mr. Richard O'Donnell.

URS Group, Inc. (URS) is one executing organization for the CTT inventory at BRAC installations and properties and is responsible for conducting the record searches; gathering, compiling, and validating data; and submitting the validated data to AEC in the specified file formats. URS is responsible for completing the CTT inventory for

# B. DEFINITIONS AND DATA REQUIREMENTS

Before the results of the inventory can be presented, the reader must have an understanding of the definitions and data requirements associated with the inventory. This section outlines the definitions used in the inventory and the data requirements established by the Army.

## Inventory Definitions

The following definitions are applicable to the Army's range inventory program.

**Active Range** – A Military Range that is currently in service and is being used regularly for range activities. For the purposes of the inventory, "in service" is defined as currently in operation, construction, maintenance, renovation, or reconfiguration to meet current Army training and/or test requirements. An active range qualifies as an operational range.

**Base Realignment and Closure (BRAC)** – A DoD program that focuses on compliance and cleanup efforts at military installations undergoing closure or alignment, as authorized by Congress in four rounds of base closures for 1988, 1991, 1993, and 1995. A BRAC parcel is eligible for the MMRP if the release occurred prior to September 30, 2002; the release is not an operational range, Formerly Used Defense Sites (FUDS), active munitions demilitarization facility, or active waste military munitions (WMM) treatment or disposal unit that operated after September 30, 2002; and the site was not identified or included in the Restoration Management Information System (RMIS) prior to September 30, 2002.

**Closed Range** – A Military Range that has been taken out of service as a range and that either has been put to new uses that are incompatible with range activities or is not considered by the military to be a potential range area. A closed range is still under the control of a DoD component. Closed ranges cannot occupy an area that has been identified as an A/I range. Closed ranges are those areas of land that used to be operational, are still owned by the Army, but are now used for non-range purposes.

**Defense Site** – Locations that are or were owned by, leased to, or otherwise possessed or used by DoD. Does not include operational ranges, operating storage or manufacturing facilities, or facilities that are or were permitted for the treatment or disposal of military munitions.

**Defense Site Environmental Restoration Tracking System (DSERTS) Site** – A site included in the Army's DSERTS database. DSERTS is the database the Army uses to track Installation Restoration Program (IRP) sites under DERP.

**Discarded Military Munitions (DMM)** – Military munitions that have been abandoned without proper disposal or removed from storage in a military magazine

**No Public Access (NPA)** – The public does not have any access to the range or site.

**Operational Range** – A military range that is currently in service and is being regularly used for range activities, or a military range that is not currently used, but that is till considered by the military to be a potential range area, and that has not been put to a new use that is incompatible with range activities. Both active and inactive ranges qualify as operational ranges.

**Restoration Management Information System (RMIS) Site** – A site included in the DoD's RMIS database. Includes any building, structure, impoundment, landfill, storage container, or other site or area where a hazardous substance was or has come to be located. Installations and ranges may have more than one site.

**Restricted Public Access (RPA)** – The public does have some access to the range or site and that access may involve some surface disturbance, such as agricultural use, forestry, recreation, and vehicle or supply storage facility use.

**Transferred Range** – A Military Range that is no longer under military control and had been leased by DoD, transferred, or returned by DoD to another entity, including federal entities. This includes a Military Range that is no longer under military control, but that was once used by the Army. This includes use under the terms of an executive order, special-use permit or authorization, right-of-way, public land order, or other instrument issued by the Federal land manager.

**Transferring Range** – A Military Range that is proposed to be leased, transferred, or returned by DoD to another entity, including federal entities. This includes a Military Range that was used under the terms of a withdrawal, executive order, special-use permit or authorization, right-of-way, public land order, or other instrument issued by the Federal land manager or Property Owner. An active range will not be considered a "transferring range" until the transfer is imminent.

**Unexploded Ordnance (UXO)** – Military munitions that have been primed, fused, armed, or otherwise prepared for action; have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material; and remain unexploded either by malfunction, design, or any other cause.

**Unrestricted Public Access (UPA)** – There are no restrictions on the use of the range or site (excavation is allowed).

## Inventory Data Requirements

The goal of this CTT inventory is to identify locations, periods of use, and types of ordnance used on CTT military ranges and UXO-DMM-MC sites associated with Wingate BRAC property. Specific requirements included (1) mapping the CTT

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. A summary of the calculated RAC scores and the completed RAC worksheets for each CTT range and UXO-DMM site inventoried are included in Section G.

## DERP Eligibility Determination

The CTT inventory team is required to determine the DERP eligibility of each range and site included in the inventory. This is done to ensure ranges and sites are not double counted if already included under the IRP. It is also performed to ensure only ranges with UXO-DMM-MC meeting the requirements identified in the DERP Management Guidance, September 2001, are included in the MMRP. Results of the DERP eligibility determination include IRP, MMRP, or other (not eligible). To make this determination the following must be considered.

- Does the site have a DSERTS Site ID?
- Does the current DSERTS cost to complete (CTC) include a response to all UXO-DMM-MC?
- Does the DSERTS site have a BRAC UXO flag?
- When the DSERTS site is listed as response complete (RC), is it listed as RC because of ineligibility of funding for UXO or munitions?

After the determination of whether the range or site, including its associated UXO-DMM-MC aspects, is currently covered under the IRP, it must be determined whether the range or site is eligible for the MMRP. If the range or site is not currently covered under the IRP and is not eligible for the MMRP, it should be classified as "other." As appropriate, based on the eligibility determination, RMIS range ID and RMIS site ID numbers are then assigned.

military ranges and UXO-DMM-MC sites; (2) collecting and preparing data to be uploaded into 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 MMRP. Descriptions of the data requirements for the maps, ARID, and the RAC methodology are outlined below.

## Range and Site Map Requirements

A CTT map was created as part of the inventory and is included in Section E. The CTT map provides a complete picture of the CTT ranges and UXO-DMM-MC sites on Wingate BRAC property.

## ARID Data Requirements

The CTT inventory data are driven by the requirements of ARID. The *ARID Upload Instructions* (14 January 2003) outline the minimum data elements required for completing the range inventory. According to the instructions, the following files are required for the inventory:

- Points of Contact
- Installation
- Range
- Munitions
- Ownership
- Land Use Restriction and Access Controls
- Range Demographics
- Map
- RMIS Site Information
- DSERTS Site Information

A printed copy of each file submitted to ARID is provided in Section F.

## Risk Assessment Code Methodology

The CTT inventory team was required to perform an explosives safety risk assessment, using the RAC methodology, on each CTT military range and UXO-DMM sites identified in the inventory. RAC scores are not appropriate for sites containing only MC. The RAC methodology is a process that U.S. Army Corp of Engineers (USACE) designed to evaluate the relative explosive risk associated with past ordnance-related disposal, testing, or training. The RAC score assists in prioritizing and sequencing projects. The RAC process is described in Appendix B of USACE Engineering Pamphlet 1110-1-18, *Ordnance and Explosive Response* (24 April 2000) and referenced in the updated management guidance for DERP. The analysis involves a worksheet that, when completed, assigns a relative score (RAC score) to the sites. The RAC score is a number from 1 (highest explosives safety

or other storage area for the purpose of disposal. The term does not include UXO, military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of.

**Formerly Used Defense Site (FUDS)** – A DoD program that focuses on compliance and cleanup efforts at sites that were formerly used by DoD. A FUDS property is eligible for the MMRP if the release occurred prior to October 17, 1986; the property was transferred from DoD control prior to October 17, 1986; and the property or project meets other FUDS eligibility criteria.

**Inactive Range** – A Military Range that currently is not being used, but that is still considered by the Army to be a potential range area and that has not been put to a new use that is incompatible with range activities. An inactive range qualifies as an operational range.

**Limited Public Access (LPA)** – The public does have some access to the range or site, but that access doesn't involve any digging, only surface access, such as livestock grazing or use as a wildlife preserve or refuge.

**Military Munitions** – All ammunition products and components produced for or used by the armed forces for national defense and security, including ammunition products or components under the control of DoD, the Coast Guard, the Department of Energy (DOE), and the National Guard. The term includes confined gaseous, liquid, and solid propellants, explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries, including bulk explosives and chemical warfare agents, chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges, and devices and components thereof. The term does not include wholly inert items, improvised explosive devices, and nuclear weapons, nuclear devices, and nuclear components, except that the term does include non-nuclear components of nuclear devices that are managed under the nuclear weapons program of the DOE after all required sanitization operations under the Atomic Energy Act of 1954 (42 United States Code 2011 et seq.) have been completed.

**Military Range** – A designated land or water area set aside, managed, and used to conduct research on, develop, test and evaluate military munitions and explosives, other ordnance, or weapon systems, or to train military personnel in their use and handling. Ranges include firing lines and positions, maneuver areas, firing lanes, test pads, detonation pads, impact areas, and buffer zones with restricted access and exclusionary areas.

**Munitions Constituents (MC)** – Any materials originating from UXO-DMM-MC, including explosive and nonexplosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions.

# C. INSTALLATION SUMMARY

This section provides a brief summary of the history of Wingate and a summary of the data collection portion of the CTT inventory for the BRAC property, including the types of records reviewed and personnel contacted.

## Installation Overview and Description

Wingate [Federal Facility Identification (FFID): NM213820974] is a sub-installation of Tooele Army Depot. The installation occupies approximately 15,843 acres in northwestern New Mexico, in McKinley County located 130 miles west of Albuquerque, New Mexico, and 8 miles east of Gallup, New Mexico. Wingate is almost completely surrounded by federally owned or administered lands. To the north and east of Wingate is the Bureau of Indian Affairs (BIA) administered lands and to the south and southeast is the largely undeveloped Cibola National Forest. Lands to the north and west are Navajo Tribal Trust and Allocated Lands. Most of the land surrounding the installation is undeveloped except for the Sundance subdivision and coal mine, and Rehoboth Mission, 0.5 mile to the west.

Wingate is a former ammunition supply depot closed under the first BRAC round in 1988. The history of Wingate dates back to 1868 when it was built to provide oversight of the Navajo homeland. Troops were garrisoned at Wingate until 1917. Wingate provided patrol, escort, and survey services. In 1916, the installation was originally called the Wingate Ordnance Depot and became a storage area for explosives. By 1928, the mission changed to include that of packing and shipping explosives. The present Wingate was established in 1941 in support of the United States' entry into World War II. The mission of Wingate was to provide services as a supply depot, providing for the receipt, storage, issue, maintenance, and disposal of assigned commodities.

Wingate's current facilities were completed in 1942 and used for shipping and receiving supplies from activities overseas. In 1962, Wingate became part of the new U.S. Army Supply and Maintenance Command, and in the same year, the U.S. Army designated the installation Fort Wingate. Between 1963 and 1967, Wingate was used by White Sands Missile Range in Southern New Mexico to test the mobility and accuracy of firing the Pershing Missile system. In 1966, the depot increased its activities by shipping ammunition for the Vietnam conflict. From July 1971 until September 1975, the Depot was placed in reserve status under the command of Pueblo Army Depot (Colorado) and redesignated Wingate Depot Activity. Fort Wingate Missile Launch Complex, including the Pershing Missile Launch Site, is retained by DoD under the Ballistic Missile Defense Organization (BMDO).

The southern section of Wingate includes an open burn/open detonation (OB/OD) range (DSERTS FTWG-05) that includes an area referred to as the "Closed OB/OD Area" and an area as the "Current OB/OD Area" and covers approximately 1,807

Duke Davis
Caretaker
P.O. Box 268
Wingate, NM 87316
Phone: (505) 488-5411
Fax: (505) 488-5412
fwda@juno.com

## Nature of Data Collection and Coordination

Specific records and maps reviewed are listed in the document log (see Section I).

## Summary of Critical Data Sources

The ASR for this site and the installation point of contact both reported that several threatened and endangered species are known to exist within Wingate. However, a list was not available during or following the site visit. The ASR reports that there are a number of pre-historic and historic sites within Wingate. The IRP has numerous sites currently under investigation and/or restoration at Wingate.

acres. Another approximately 234 acres are associated with the OB/OD area as kick out from explosive ordnance disposal (EOD) operations impacted the acreage to the west of the OB/OD area. The Closed OB/OD Area operated from 1948 to 1955. After 1955, burning and demolition operations at the installation were performed within the Current OB/OD Area, and in 1980, these operations were permitted and regulated under Resource Conservation and Recovery Act (RCRA) Interim Status. All OB/OD operations ceased when Wingate was included in the first BRAC round in 1988. The OB/OD area is not included in this CTT inventory but has been counted as a part of the active installation CTT inventory for White Sands Missile Range/Fort Wingate. That inventory report indicates this area as eligible for MMRP.

Wingate was chosen for closure as part of the Defense Authorization Amendments and Base Closure and Realignment Act of 1988, and targeted for closure by September 1995. In negotiations with the Native American tribes, the Army BRAC Program transferred a significant portion of the 22,120 acres to be used jointly by the tribes, retaining the remainder for missile testing and launching under the Army's BMDO. Activity formally ceased at Wingate in January 1993. Of the lands retained, 6,460 acres are under the control of the BMDO, while the remaining lands are subject to transfer under BRAC.

An Archives Search Report (ASR) was prepared for this installation by the USACE, St. Louis District. The ASR, dated July 1995, noted that Wingate began operations as far back as the 1860s and was identified as Wingate Ordnance Depot in 1916 when it became a storage area for explosives. By 1928, the mission changed to include that of packing and shipping explosives. The ASR focused on areas identified as potentially contaminated from OE waste. The areas identified in the ASR included Functional Test Range 1 and Functional Test Range 2/3. These areas are identified in this CTT inventory as closed ranges. The ASR was the main source of information for this report.

The CTT inventory identified two CTT ranges and three UXO-DMM-MC sites on Wingate. The ranges were used as testing areas for flare and signal grenades during the late 1950s. The three UXO-DMM-MC sites were historically used to demilitarize munitions. Some remediation has been conducted on these sites.

## Contractor Team Composition

The CTT inventory team for Wingate BRAC property was represented by URS. The CTT inventory team leader for Wingate was Mr. John Reddy. Team members included Ms. Melanie White, Mr. Keith La Torre, and Mr. Jusbyn Lockard.

## Installation Points of Contact

The primary CTT inventory point of contact for Wingate was Mr. Duke Davis, Installation Caretaker. Contact information is as follows:

# D. INSTALLATION CTT RANGE AND SITE DATA

This section details the CTT military ranges and UXO-DMM-MC sites on or associated with Wingate BRAC property. It includes a summary of the total range and site area in acres, a summary of each individual CTT military range and site, a table listing the details of each CTT range and site, a table with ownership and accessibility information, and a table illustrating the DERP eligibility determination.

## Summary of CTT Ranges and UXO-DMM-MC Sites

The following is a summary of the estimated range and site area on Wingate BRAC property:

A/I Range and Site Area: 6,460.0 acres*
CTT Range and Site Area: 655.7 acres
Total Range and Site Area: 7,115.7 acres

* Indicates a portion of this total (37.5) is also counted as closed due to special circumstances described herein.

The CTT acreage figures by ownership are provided in Table D-1.

**Table D-1: Ownership Summary Table**

| Installation | Range or Site Name | Ownership | CTT Acreage |
|---|---|---|---|
| Wingate | Building 503 | DoD | 2.4 |
| Wingate | Deactivation Furnace | DoD | 20.9 |
| Wingate | Functional Test Range 1 – MR Parcel | DoD | 37.5 |
| Wingate | Functional Test Range 2/3 | DoD | 585.0 |
| Wingate | Sewage Treatment Plant | DoD | 9.9 |
| | | TOTAL | 655.7 |

## CTT Range and Site Summaries

Below are summaries for the individual CTT range and UXO-DMM-MC sites inventoried on Wingate BRAC property. Each summary typically includes a brief history of the area, total acreage, relative location, types of ordnance used or discarded, periods of use, information on any UXO responses conducted, and current usage. The sites reported to ARID and included in the CTT range and site summary details table are adjusted so that areas are not counted more than once in the inventory. Some summaries are more detailed than others based on the level of data available.

part of FTR 1 is considered for eligibility under MMRP. The completed remedial investigation indicates no cleanup required with respect to UXO in the remainder of FTR 1. This site remains undeveloped.

It is important to note that this 37.5-acre area is located within the A/I range area and is considered a special case where the acreage is counted as BOTH A/I and closed. Site cleanup is required before land transfer in accordance with an agreement made prior to the existence of MMRP.

**Functional Test Range 2/3** – Located in the northern portion of the installation, this closed range occupies 585.0 acres and was utilized from 1950 to 1988. Documentation within the ASR states that during the 1950s flare and signal grenades were tested. The ASR states that the area probably has little actual OE contamination. The completed remedial investigation indicates no cleanup required with respect to UXO. This site remains undeveloped.

**Sewage Treatment Plant** – This 9.9-acre closed site is located in the northern portion of the installation near the administrative buildings. This was a documented incinerator site originally used to destroy classified documents, but apparently it was also used to destroy ammunition between approximately 1942 and 1988. A UXO survey was conducted on this site in which 7,930 live ordnance items were removed. These items were 20mm AP-T and 40mm projectiles from the surface to 6 in. below the surface. The completed remedial investigation indicates no cleanup required with respect to UXO. This site remains undeveloped.

## CTT Range and Site Details Table

The CTT Range and Site Details Table (Table D-2) provides detailed information on the CTT areas included in the inventory.

**Table D-2: CTT Range and Site Details Table**

| Installation | Range or Site Name | Classification | Total Area for ARID (Acres) | Munitions Type(s) | Munitions Constituents | RAC Score[a] | Historic Use |
|---|---|---|---|---|---|---|---|
| Wingate | Building 503 | Closed | 2.4 | Secondary Explosives (PETN, CMP ABC, Tetryl, TNT, RDX, HMX, HBX, BK Powder) | Y | 4 | Explosive Contaminated Soil |

## CTT Range and Site Ownership, Use and Access Control Summary Table

The CTT Range and Site Ownership Table (Table D-3) provides a summary of the owner, current use, and access restrictions associated with each CTT range and site in the inventory.

**Table D-3: CTT Range and Site Ownership, Use, and Access Control Summary Table**

| Installation | Range or Site Name | Owner | Current Use | Restrictions |
|---|---|---|---|---|
| Wingate | Building 503 | DoD | Undeveloped | Guards, Locked Gates, Signs |
| Wingate | Deactivation Furnace | DoD | Undeveloped | Guards, Locked Gates, Signs |
| Wingate | Functional Test Range 1 – MR Parcel | DoD | Undeveloped | Fences, Guards, Locked Gates |
| Wingate | Functional Test Range 2/3 | DoD | Undeveloped | Guards, Locked Gates, Signs |
| Wingate | Sewage Treatment Plant | DoD | Undeveloped | Guards, Locked Gates, Signs |

## DERP Eligibility Table

The RMIS Information Table (Table D-4) and the DERP Eligibility Table (Table D-5) provide a summary of the process for determining a site's DERP eligibility. Specifically, if it should be covered under the MMRP or if it is already addressed under the IRP and should remain under that program. For those sites that are not DERP eligible due to a lack of UXO-DMM-MC contamination (i.e., bayonet ranges, drop zones), the table identifies the DERP eligibility as "other."

**Table D-4: RMIS Information Table**

| Installation | Range or Site Name | DSERTS Site ID | DSERTS CTC Includes UXO and DMM | DSERTS Site ID Has BRAC UXO Flag | DSERTS Response Complete (RC) | DSERTS RC Flag[a] | Active DSERTS Phase(s) |
|---|---|---|---|---|---|---|---|
| Wingate | Building 503 | FTWG-29 | — | N | Y | A | — |
| Wingate | Deactivation Furnace | — | — | — | — | — | — |
| Wingate | Functional Test Range 1 – MR Parcel | FTWG-25 | N | Y | N | — | RAC |
| Wingate | Functional Test Range 2/3 | FTWG-39 | — | Y | Y | B | — |

| Installation | Range or Site Name | DSERTS Site ID | DSERTS CTC Includes UXO and DMM | DSERTS Site ID Has BRAC UXO Flag | DSERTS Response Complete (RC) | DSERTS RC Flag[a] | Active DSERTS Phase(s) |
|---|---|---|---|---|---|---|---|
| Wingate | Sewage Treatment Plant | FTWG-11 | — | N | Y | B | — |

[a] A = All required cleanup(s) complete
B = Study completed; no response required
C = Not eligible for DERA/BRAC funding
D = Other
RAC = Risk Assessment Code

## Table D-5: DERP Eligibility Table

| Installation | Range or Site Name | Range | DERP Eligibility | RMIS Range ID | RMIS Site ID |
|---|---|---|---|---|---|
| Wingate | Building 503 | N | IR | — | — |
| Wingate | Deactivation Furnace | N | IR | — | — |
| Wingate | Functional Test Range 1 – MR Parcel | Y | MR | FTWG-003-R | FTWG-003-R-01 |
| Wingate | Functional Test Range 2/3 | Y | Other | — | — |
| Wingate | Sewage Treatment Plant | N | IR | — | — |

IR = Installation Restoration
N = No
Y = Yes
MR = Study completed; no response required

| Installation | Range or Site Name | Classification | Total Area for ARID (Acres) | Munitions Type(s) | Munitions Constituents | RAC Score[a] | Historic U. |
|---|---|---|---|---|---|---|---|
| Wingate | Deactivation Furnace | Closed | 20.9 | Large Caliber (37mm and Larger) (Secondary, WP, Incendiary); Medium Caliber (20mm, 25mm, 30mm), HE | N | 3 | OB/OD |
| Wingate | Functional Test Range 1 – MR Parcel | Closed | 37.5 | Flares, Signals Simulators, or Screening Smoke (Other than White Phosphorus); Hand Grenades, Practice; Secondary Explosives (PETN, CMP ABC, Tetryl, TNT, RDX, HMX, HBX, BK Powder) | N | 4 | OB/OD, R&D |
| Wingate | Functional Test Range 2/3 | Closed | 585.0 | Flares, Signals, Simulators, or Screening Smoke (Other than White Phosphorus); Hand Grenades, Practice | N | 4 | Hand Grenade, R&D |
| Wingate | Sewage Treatment Plant | Closed | 9.9 | Large Caliber (37mm and Larger), HE; Medium Caliber (20mm, 25mm, 30mm), HE | N | 3 | OB/OD |

[a]The RAC score is a prioritization and sequencing tool used to rank the explosives safety risk at a site; 1 is the highest explosives safety risk, 5 is the lowest explosives safety risk. The RAC score is discussed further in Section G. The RAC score is only developed for range, UXO, and DMM sites, not MC sites.

This CTT inventory identified two CTT ranges and three UXO-DMM-MC sites at Wingate. Range locations are depicted on Figure 1 (Section E). Information used to write these descriptions was obtained from the sources listed in Section I.

**Building 503** – This 2.4-acre closed site is a trinitrotoluene (TNT) washout facility located within the north-central portion of the installation. The building has been demolished, and the only portion of the facility that remains is the three leaching beds. Documentation within the ASR states that the structure of the building and the nearby leaching beds may have been contaminated. Three leaching beds are associated with the ammunition washout operation.

From 1949 to 1967, munitions were received at Building 500, where they were unpacked, broken down, and transported to Building 503. A hot water washout operation then took place at Building 503. Constituents associated with the munitions at Building 503 were TNT, research demolition explosive (RDX), and Tritinol. The explosive slurry was then pumped out into storage and a drying tank to eventually be shipped to various ammunition plants for reuse.

In 1967, the bottom soil of the leaching beds was removed and burned at the OB/OD grounds on the installation. However, in 1981, soil from the leaching beds was analyzed and contamination was detected (2,4,6-TNT and 1,3,5-TNB). This site had a completed remedial design in 1998 and is shown as RC in the current DSERTS database. Building 503 remains as it has been since the building was demolished.

**Deactivation Furnace** – This 20.9-acre closed site is located in the workshop area in the northern portion of the installation. The building was demolished and all that remains is the shell of the building, the former furnace foundation, and several associated concrete areas. Modifications were made to the furnace in the 1970s to burn off elemental phosphorus from white phosphorus (WP) rounds to produce commercially marketable phosphoric acid. The furnace was used until 1986 when it was dismantled and analyzed for hazardous contaminants. No further development or change in land use has been conducted. The Deactivation Furnace site is listed in DSERTS as FTWG-07 and is ongoing.

During a UXO survey (approximately 1998), 47 live ordnance items were discovered and removed from the surface. A 100% surface and subsurface clearance was conducted to an average depth of 4 ft on approximately 10 acres. Recovered was approximately 11,009.5 lb of ordnance and explosives (OE)-related scrap.

**Functional Test Range 1 – MR Parcel** – Functional Test Range 1 (FTR 1) is located in the east-central portion of Wingate within the boundary previously identified as active or inactive range. FTR 1 is a closed range utilized in the 1940s for powder burning and for testing flares and signal grenades in the 1950s. Residues were piled on the bank of an arroyo near the eastern part of the area. In late 1992 through mid 1993, a UXO survey was conducted in the near surface (0 to 6 in.) soil and 124 ordnance items were found. A parcel measuring 37.5 acres in the northern

# E. CTT RANGE AND SITE MAPS

A CTT map was generated for the CTT inventory of Wingate BRAC property. The CTT map shows all the range and site areas associated with the BRAC property. An electronic version (.pdf file) of the map will be provided as an upload to ARID with the final report. The individual CTT map for the Wingate BRAC property is included in this section.

# F. ARID DATA FILES

This section contains a printout of the ARID data files submitted to AEC for the CTT inventory for Wingate BRAC property. The files were set up according to the guidelines in the *ARID Upload Instructions* (14 January 2003). The following files are included:

- Points of Contact
- Installation
- Range
- Munitions
- Ownership
- Land Use Restriction and Access Controls
- Range Demographics
- RMIS Site Information
- DSERTS Information

## POC Table

06/24/2003

| INSTALLATION NAME | FFID | LAST NAME | FIRST NAME | POC TITLE | POC ORG |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | DAVIS | DUKE | BRAC CARETAKER | WINGATE DEPOT ACTIVITY |

**POC TYPE:** CTT

| PHONE | ADDRESS |
|---|---|
| PHONE 505-488-5411 | P.O.BOX 268 |
| DSN | |
| FAX 505-488-5412 | |
| EMAIL FWDA@JUNO.COM | WINGATE, NM 87316 |
| | UNITED STATES |

**Installation Table**

06/24/2003

| INSTALLATION NAME | FFID | MACOM | MSC | PARENT INSTALLATION | A/I RANGE | CTT RANGE | BRAC ROUND | DERA FLAG | FUDS FLAG |
|---|---|---|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | AMC | OSC | TOOELE ARMY DEPOT | Y | Y | 1988 | Y | N |

**DSERTS Information Table**

06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME | DSERTS SITE ID | DSERTS CTC INCLUDES UXO-DMM | DSERTS SITE ID HAS BRAC UXO FLAG | DERP ELIGIBILITY | RMIS SITE ID |
|---|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | BUILDING 503 | FTWG-29 | N | N | IR | N/A |

| DSERTS PHAS | RESPONSE COMPLETE FLAG | RESPONSE COMPLETE REASON |
|---|---|---|
| | Y | ALL REQUIRED CLEANUP(S) COMPLETED |

| INSTALLATION NAME | FFID | RANGE/SITE NAME | DSERTS SITE ID | DSERTS CTC INCLUDES UXO-DMM | DSERTS SITE ID HAS BRAC UXO FLAG | DERP ELIGIBILITY | RMIS SITE ID |
|---|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | DEACTIVATION FURNACE | | | | IR | N/A |

| DSERTS PHAS | RESPONSE COMPLETE FLAG | RESPONSE COMPLETE REASON |
|---|---|---|

| INSTALLATION NAME | FFID | RANGE/SITE NAME | DSERTS SITE ID | DSERTS CTC INCLUDES UXO-DMM | DSERTS SITE ID HAS BRAC UXO FLAG | DERP ELIGIBILITY | RMIS SITE ID |
|---|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 1 - MR PARCEL | FTWG-25 | N | Y | MR | FTWG-003-R-01 |

| DSERTS PHAS | RESPONSE COMPLETE FLAG | RESPONSE COMPLETE REASON |
|---|---|---|
| RAC | N | N/A |

## RMIS Information Table

06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME | RMIS RANGE ID | RMIS SITE ID | ON RANGE FLAG |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 1 - MR PARCEL | FTWG-003-R | FTWG-003-R-01 | Y |

| BUFFER AREA | DISPOSAL | OBOD | SMALL ARMS RANGE | SKEET RANGE | TESTING | TRAINING | WASTE MILITARY MUNITIONS | OTHER | OTHER DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| N | N | Y | N | N | Y | Y | N | N | N/A |

| DRINKING WATER | GROUNDWATER DEPTH (FT) | CONSTITUENT FLAG | UXO DENSITY |
|---|---|---|---|
| POTENTIAL | 300 | NO | LOW |

**Range Demographics Table** 06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME | TYPE | NAME | STATE | COUNTRY |
|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | BUILDING 503 | COUNTY | MCKINLEY | NM | UNITED STATES |
| WINGATE DEPOT ACTIVITY | NM213820974 | DEACTIVATION FURNACE | COUNTY | MCKINLEY | NM | UNITED STATES |
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 1 - MR PARCEL | COUNTY | MCKINLEY | NM | UNITED STATES |
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 2/3 | COUNTY | MCKINLEY | NM | UNITED STATES |
| WINGATE DEPOT ACTIVITY | NM213820974 | SEWAGE TREATMENT PLANT | COUNTY | MCKINLEY | NM | UNITED STATES |

**Range Table** 06/24/2003

**RMIS RANGE ID:** FTWG-003-R

| INSTALLATION NAME | FFID | RANGE/SITE NAME | STATUS | SEVERITY SCORE | PROBABILITY SCORE | RAC SCORE |
|---|---|---|---|---|---|---|

**HISTORIC USE 3** N/A

## Range Table

06/24/2003

**RMIS RANGE ID:**

| INSTALLATION NAME | FFID | RANGE/SITE NAME | STATUS | SEVERITY SCORE | PROBABILITY SCORE | RAC SCORE |
|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | BUILDING 503 | CLOSED | III | C | 4 |

**RANGE DESCRIPTION**

Located within the northern portion of the installation; this building has been demolished and all that remains is the foundation.

| CTT TOTAL ACRES | MMR ACRES IDENTIFIED | MMR ACRES SUSPECTED | MMR ACRES NOT SUSPECTED |
|---|---|---|---|
| 2.40 | 2.40 | 0.00 | 0.00 |

| UTM ZONE | UTM DATUM | UTM X | UTM Y | CONSTRUCTION DATE | RIP RC DATE |
|---|---|---|---|---|---|
| 12 | NAD83 | 718808 | 3932047 | 19490101 | |

**COMMENT**

This facility received munitions from Building 500 where they had been unpacked, broken down, and transported to Building 503 where a hot water washout operation then took place.

| TOPOGRAPHY | VEGETATION | SOIL TYPE |
|---|---|---|
| FLAT WITH GORGES OR GULLIES | BARREN OR LOW GRASS | CLAY/SAND WITH STONE |

| | | START YEAR |
|---|---|---|
| **CURRENT USE 1** | UNDEVELOPED | 1981 |
| **CURRENT USE 2** | N/A | |
| **CURRENT USE 3** | N/A | |

| | | START YEAR | END YEAR |
|---|---|---|---|
| **HISTORIC USE 1** | EXPLOSIVE CONTAMINATED SOIL | 1949 | 1967 |
| **HISTORIC USE 2** | N/A | | |
| **HISTORIC USE 3** | N/A | | |

## Range Table

06/24/2003

**RMIS RANGE ID:**

| INSTALLATION NAME | FFID | RANGE/SITE NAME | STATUS | SEVERITY SCORE | PROBABILITY SCORE | RAC SCORE |
|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 2/3 | CLOSED | III | D | 4 |

**RANGE DESCRIPTION**

Testing of flare and signal grenades.

| CTT TOTAL ACRES | MMR ACRES IDENTIFIED | MMR ACRES SUSPECTED | MMR ACRES NOT SUSPECTED |
|---|---|---|---|
| 585.00 | 585.00 | 0.00 | 0.00 |

| UTM ZONE | UTM DATUM | UTM X | UTM Y | CONSTRUCTION DATE | RIP RC DATE |
|---|---|---|---|---|---|
| 12 | NAD83 | 721612 | 3931649 | 19050503 | |

**COMMENT**

This range was used for the testing of flare and signal grenades.

| TOPOGRAPHY | VEGETATION | SOIL TYPE |
|---|---|---|
| FLAT WITH GORGES OR GULLIES | BARREN OR LOW GRASS | CLAY/SAND WITH STONE |

| | | START YEAR |
|---|---|---|
| **CURRENT USE 1** | UNDEVELOPED | 1988 |
| **CURRENT USE 2** | N/A | |
| **CURRENT USE 3** | N/A | |

| | | START YEAR | END YEAR |
|---|---|---|---|
| **HISTORIC USE 1** | HAND GRENADE | 1950 | 1988 |
| **HISTORIC USE 2** | R&D | 1950 | 1988 |
| **HISTORIC USE 3** | N/A | | |

## Munitions Table

06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME |
|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 2/3 |

| DODIC | DODIC DESCRIPTION | START DATE | END DATE | MUNITIONS EXPENDED |
|---|---|---|---|---|
| CTT42 | FLARES, SIGNALS, SIMULATORS, OR SCREENING SMOKE (OTHER THAN WHTE PHOSP) | 01/1950 | 01/1988 | |
| CTT06 | HAND GRENADES, PRACTICE | 01/1950 | 01/1988 | |

| INSTALLATION NAME | FFID | RANGE/SITE NAME |
|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | SEWAGE TREATMENT PLANT |

| DODIC | DODIC DESCRIPTION | START DATE | END DATE | MUNITIONS EXPENDED |
|---|---|---|---|---|
| CTT11 | LARGE CALIBER (37MM AND LARGER), HE | 01/1942 | 01/1988 | |
| CTT10 | MEDIUM CALIBER (20MM, 25MM, 30MM), HE | 01/1942 | 01/1988 | |

## Ownership Table

06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME | ALL ARMY OWNED | OWNER | OWNER DESCRIPTION |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | BUILDING 503 | Y | DOD | N/A |

| FEDERAL LEASE FLAG | STATE LEASE FLAG | LOCAL LEASE FLAG | TRIBAL LEASE FLAG | PRIVATE LEASE FLAG | OTHER LEASE FLAG | OTHER LEASE DESCRIPTION | LEASE TERMINATED | REVOCATION OF LAND |
|---|---|---|---|---|---|---|---|---|
| N | N | N | N | N | N | N/A | N | N |

| INSTALLATION NAME | FFID | RANGE/SITE NAME | ALL ARMY OWNED | OWNER | OWNER DESCRIPTION |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | DEACTIVATION FURNACE | Y | DOD | N/A |

| FEDERAL LEASE FLAG | STATE LEASE FLAG | LOCAL LEASE FLAG | TRIBAL LEASE FLAG | PRIVATE LEASE FLAG | OTHER LEASE FLAG | OTHER LEASE DESCRIPTION | LEASE TERMINATED | REVOCATION OF LAND |
|---|---|---|---|---|---|---|---|---|
| N | N | N | N | N | N | N/A | N | N |

## Ownership Table

06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME | ALL ARMY OWNED | OWNER | OWNER DESCRIPTION |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | SEWAGE TREATMENT PLANT | Y | DOD | N/A |

| FEDERAL LEASE FLAG | STATE LEASE FLAG | LOCAL LEASE FLAG | TRIBAL LEASE FLAG | PRIVATE LEASE FLAG | OTHER LEASE FLAG | OTHER LEASE DESCRIPTION | LEASE TERMINATED | REVOCATION OF LAND |
|---|---|---|---|---|---|---|---|---|
| N | N | N | N | N | N | N/A | N | N |

## Land Use Restriction Table

06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME | RESTRICTION TYPE | RESTRICTION | PUBLIC ACCESS |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | BUILDING 503 | ACCESS CONTROL | GUARDS | RPA |
| **DESCRIPTION:** | | | | | |
| WINGATE DEPOT ACTIVITY | NM213820974 | BUILDING 503 | ACCESS CONTROL | LOCKED GATES | RPA |
| **DESCRIPTION:** | | | | | |
| WINGATE DEPOT ACTIVITY | NM213820974 | BUILDING 503 | ACCESS CONTROL | SIGNS | RPA |
| **DESCRIPTION:** | | | | | |

| INSTALLATION NAME | FFID | RANGE/SITE NAME | RESTRICTION TYPE | RESTRICTION | PUBLIC ACCESS |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | DEACTIVATION FURNACE | ACCESS CONTROL | GUARDS | RPA |
| **DESCRIPTION:** | | | | | |
| WINGATE DEPOT ACTIVITY | NM213820974 | DEACTIVATION FURNACE | ACCESS CONTROL | LOCKED GATES | RPA |
| **DESCRIPTION:** | | | | | |
| WINGATE DEPOT ACTIVITY | NM213820974 | DEACTIVATION FURNACE | ACCESS CONTROL | SIGNS | RPA |
| **DESCRIPTION:** | | | | | |

PUBLIC ACCESS DEFINITIONS

NPA = No Public Access: The public does not have any access to the range/site.

LPA = Limited Public Access: The public does have some access to the range/site, but that access doesn't involve any digging, only surface access, such as livestock grazing or use as a wildlife preserve or refuge.

RPA = Restricted Public Access: The public does have some access to the range/site and that access may involve some surface disturbance, such as agricultural use, forestry, recreation, and vehicle or supply storage facility use.

UPA = Unrestricted Public Access: There are no restrictions on the use of the range/site (excavation is allowed).

## Land Use Restriction Table

06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME | RESTRICTION TYPE | RESTRICTION | PUBLIC ACCESS |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | SEWAGE TREATMENT PLANT | ACCESS CONTROL | GUARDS | RPA |
| **DESCRIPTION:** | | | | | |
| WINGATE DEPOT ACTIVITY | NM213820974 | SEWAGE TREATMENT PLANT | ACCESS CONTROL | LOCKED GATES | RPA |
| **DESCRIPTION:** | | | | | |
| WINGATE DEPOT ACTIVITY | NM213820974 | SEWAGE TREATMENT PLANT | ACCESS CONTROL | SIGNS | RPA |
| **DESCRIPTION:** | | | | | |

PUBLIC ACCESS DEFINITIONS

NPA = No Public Access: The public does not have any access to the range/site.

LPA = Limited Public Access: The public does have some access to the range/site, but that access doesn't involve any digging, only surface access, such as livestock grazing or use as a wildlife preserve or refuge.

RPA = Restricted Public Access: The public does have some access to the range/site and that access may involve some surface disturbance, such as agricultural use, forestry, recreation, and vehicle or supply storage facility use.

UPA = Unrestricted Public Access: There are no restrictions on the use of the range/site (excavation is allowed).

**Ownership Table** 06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME | ALL ARMY OWNED | OWNER | OWNER DESCRIPTION |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 1 - MR PARCEL | Y | DOD | N/A |

| FEDERAL LEASE FLAG | STATE LEASE FLAG | LOCAL LEASE FLAG | TRIBAL LEASE FLAG | PRIVATE LEASE FLAG | OTHER LEASE FLAG | OTHER LEASE DESCRIPTION | LEASE TERMINATED | REVOCATION OF LAND |
|---|---|---|---|---|---|---|---|---|
| N | N | N | N | N | N | N/A | N | N |

| INSTALLATION NAME | FFID | RANGE/SITE NAME | ALL ARMY OWNED | OWNER | OWNER DESCRIPTION |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 2/3 | Y | DOD | N/A |

| FEDERAL LEASE FLAG | STATE LEASE FLAG | LOCAL LEASE FLAG | TRIBAL LEASE FLAG | PRIVATE LEASE FLAG | OTHER LEASE FLAG | OTHER LEASE DESCRIPTION | LEASE TERMINATED | REVOCATION OF LAND |
|---|---|---|---|---|---|---|---|---|
| N | N | N | N | N | N | N/A | N | N |

## Munitions Table

06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME |
|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | BUILDING 503 |

| DODIC | DODIC DESCRIPTION | START DATE | END DATE | MUNITIONS EXPENDED |
|---|---|---|---|---|
| CTT44 | SECONDARY EXPLOSIVES (PETN, CMP ABC, TETRYL, TNT, RDX, HMX, HBX, BK PWDER) | 01/1949 | 01/1967 | |

| INSTALLATION NAME | FFID | RANGE/SITE NAME |
|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | DEACTIVATION FURNACE |

| DODIC | DODIC DESCRIPTION | START DATE | END DATE | MUNITIONS EXPENDED |
|---|---|---|---|---|
| CTT21 | LARGE CALIBER (37MM AND LARGER), (SMOKE, WP, INCENDIARY) | 01/1970 | 01/1986 | |
| CTT10 | MEDIUM CALIBER (20MM, 25MM, 30MM), HE | 01/1970 | 01/1986 | |

| INSTALLATION NAME | FFID | RANGE/SITE NAME |
|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 1 - MR PARCEL |

| DODIC | DODIC DESCRIPTION | START DATE | END DATE | MUNITIONS EXPENDED |
|---|---|---|---|---|
| CTT42 | FLARES, SIGNALS, SIMULATORS, OR SCREENING SMOKE (OTHER THAN WHTE PHOSP) | 01/1950 | 01/1960 | |
| CTT06 | HAND GRENADES, PRACTICE | 01/1950 | 01/1960 | |
| CTT44 | SECONDARY EXPLOSIVES (PETN, CMP ABC, TETRYL, TNT, RDX, HMX, HBX, BK PWDER) | 01/1940 | 01/1950 | |

## Range Table

06/24/2003

**RMIS RANGE ID:**

| INSTALLATION NAME | FFID | RANGE/SITE NAME | STATUS | SEVERITY SCORE | PROBABILITY SCORE | RAC SCORE |
|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | SEWAGE TREATMENT PLANT | CLOSED | II | C | 3 |

**RANGE DESCRIPTION**

Incinerator used to destroy classified documents, but apparently it was also used to destroy ammunition.

| CTT TOTAL ACRES | MMR ACRES IDENTIFIED | MMR ACRES SUSPECTED | MMR ACRES NOT SUSPECTED |
|---|---|---|---|
| 9.90 | 9.90 | 0.00 | 0.00 |

| UTM ZONE | UTM DATUM | UTM X | UTM Y | CONSTRUCTION DATE | RIP RC DATE |
|---|---|---|---|---|---|
| 12 | NAD83 | 718403 | 3933412 | 19420101 | |

**COMMENT**

| TOPOGRAPHY | VEGETATION | SOIL TYPE |
|---|---|---|
| FLAT | BARREN OR LOW GRASS | CLAY/SAND WITH STONE |

| | | START YEAR |
|---|---|---|
| CURRENT USE 1 | UNDEVELOPED | 1988 |
| CURRENT USE 2 | N/A | |
| CURRENT USE 3 | N/A | |

| | | START YEAR | END YEAR |
|---|---|---|---|
| HISTORIC USE 1 | OB/OD | 1942 | 1988 |
| HISTORIC USE 2 | N/A | | |
| HISTORIC USE 3 | N/A | | |

## Range Table

06/24/2003

**RMIS RANGE ID:**

| INSTALLATION NAME | FFID | RANGE/SITE NAME | STATUS | SEVERITY SCORE | PROBABILITY SCORE | RAC SCORE |
|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | DEACTIVATION FURNACE | CLOSED | II | C | 3 |

**RANGE DESCRIPTION**

Furnace used to burn off elemental phosphorus from WP rounds to produce commercially marketable phosphoric acid.

| CTT TOTAL ACRES | MMR ACRES IDENTIFIED | MMR ACRES SUSPECTED | MMR ACRES NOT SUSPECTED |
|---|---|---|---|
| 20.90 | 20.90 | 0.00 | 0.00 |

| UTM ZONE | UTM DATUM | UTM X | UTM Y | CONSTRUCTION DATE | RIP RC DATE |
|---|---|---|---|---|---|
| 12 | NAD83 | 718412 | 3931554 | 19700101 | |

**COMMENT**

This deactivation furnace was used to burn elemental phosphorus from WP rounds to produce commercially marketable phosphoric acid. During a UXO survey 47 live ordnance items were discovered and removed from the surface. No subsurface survey was conducted, but munitions are believed to be present.

| TOPOGRAPHY | VEGETATION | SOIL TYPE |
|---|---|---|
| FLAT WITH GORGES OR GULLIES | BARREN OR LOW GRASS | CLAY/SAND WITH STONE |

| | | START YEAR |
|---|---|---|
| **CURRENT USE 1** | UNDEVELOPED | 1986 |
| **CURRENT USE 2** | N/A | |
| **CURRENT USE 3** | N/A | |

| | | START YEAR | END YEAR |
|---|---|---|---|
| **HISTORIC USE 1** | OB/OD | 1970 | 1986 |
| **HISTORIC USE 2** | N/A | | |
| **HISTORIC USE 3** | N/A | | |

## Range Table

06/24/2003

**RMIS RANGE ID:** FTWG-003-R

| INSTALLATION NAME | FFID | RANGE/SITE NAME | STATUS | SEVERITY SCORE | PROBABILITY SCORE | RAC SCORE |
|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 1 - MR PARCEL | CLOSED | II | D | 4 |

**RANGE DESCRIPTION**

Functional Test Range 1 (FTR 1) is located in the east-central portion of Wingate within the boundary previously identified as active or inactive range. FTR 1 is a closed range utilized in the 1940s for powder burning and for testing flares and grenades in the 1950s. In late 1992 through mid 1993, a UXO survey was conducted in the near surface (0 to 6 in.) soil and a total of 124 ordnance items were found in an area measuring 37.5 acres. It is that parcel that is considered for eligibility under MMRP. The completed remedial investigation indicates no cleanup required with respect to UXO in the remainder of FTR 1. This site remains undeveloped.

| CTT TOTAL ACRES | MMR ACRES IDENTIFIED | MMR ACRES SUSPECTED | MMR ACRES NOT SUSPECTED |
|---|---|---|---|
| 37.50 | 37.50 | 0.00 | 0.00 |

| UTM ZONE | UTM DATUM | UTM X | UTM Y | CONSTRUCTION DATE | RIP RC DATE |
|---|---|---|---|---|---|
| 12 | NAD83 | 718815.4 | 3927896.2 | | |

**COMMENT**

Functional Test Range 1 is located within the boundaries of the A/I portion of the Wingate Depot Activity and the acreage has been counted in that inventory. Due to the unique situation with this range, the acreage will also be counted as closed.

| TOPOGRAPHY | VEGETATION | SOIL TYPE |
|---|---|---|
| FLAT WITH GORGES OR GULLIES | BARREN OR LOW GRASS | CLAY/SAND WITH STONE |

| | | START YEAR |
|---|---|---|
| **CURRENT USE 1** | UNDEVELOPED | 1992 |
| **CURRENT USE 2** | N/A | |
| **CURRENT USE 3** | N/A | |

| | | START YEAR | END YEAR |
|---|---|---|---|
| **HISTORIC USE 1** | OB/OD | 1940 | 1950 |
| **HISTORIC USE 2** | R&D | 1950 | 1960 |

**DSERTS Information Table**

06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME | DSERTS SITE ID | DSERTS CTC INCLUDES UXO-DMM | DSERTS SITE ID HAS BRAC UXO FLAG | DERP ELIGIBILITY | RMIS SITE ID |
|---|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 2/3 | FTWG-39 | N | Y | OTHER | |

| DSERTS PHAS | RESPONSE COMPLETE FLAG | RESPONSE COMPLETE REASON |
|---|---|---|
| | Y | STUDY COMPLETED, NO CLEANUP REQUIRED |

| INSTALLATION NAME | FFID | RANGE/SITE NAME | DSERTS SITE ID | DSERTS CTC INCLUDES UXO-DMM | DSERTS SITE ID HAS BRAC UXO FLAG | DERP ELIGIBILITY | RMIS SITE ID |
|---|---|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | SEWAGE TREATMENT PLANT | FTWG-11 | N | N | IR | N/A |

| DSERTS PHAS | RESPONSE COMPLETE FLAG | RESPONSE COMPLETE REASON |
|---|---|---|
| | Y | STUDY COMPLETED, NO CLEANUP REQUIRED |

## Land Use Restriction Table

06/24/2003

| INSTALLATION NAME | FFID | RANGE/SITE NAME | RESTRICTION TYPE | RESTRICTION | PUBLIC ACCESS |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 1 - MR PARCEL | ACCESS CONTROL | FENCES | RPA |
| **DESCRIPTION:** | | | | | |
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 1 - MR PARCEL | ACCESS CONTROL | GUARDS | RPA |
| **DESCRIPTION:** | | | | | |
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 1 - MR PARCEL | ACCESS CONTROL | LOCKED GATES | RPA |
| **DESCRIPTION:** | | | | | |

| INSTALLATION NAME | FFID | RANGE/SITE NAME | RESTRICTION TYPE | RESTRICTION | PUBLIC ACCESS |
|---|---|---|---|---|---|
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 2/3 | ACCESS CONTROL | GUARDS | RPA |
| **DESCRIPTION:** | | | | | |
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 2/3 | ACCESS CONTROL | LOCKED GATES | RPA |
| **DESCRIPTION:** | | | | | |
| WINGATE DEPOT ACTIVITY | NM213820974 | FUNCTIONAL TEST RANGE 2/3 | ACCESS CONTROL | SIGNS | RPA |
| **DESCRIPTION:** | | | | | |

PUBLIC ACCESS DEFINITIONS

NPA = No Public Access: The public does not have any access to the range/site.

LPA = Limited Public Access: The public does have some access to the range/site, but that access doesn't involve any digging, only surface access, such as livestock grazing or use as a wildlife preserve or refuge.

RPA = Restricted Public Access: The public does have some access to the range/site and that access may involve some surface disturbance, such as agricultural use, forestry, recreation, and vehicle or supply storage facility use.

UPA = Unrestricted Public Access: There are no restrictions on the use of the range/site (excavation is allowed).

# G. RISK ASSESSMENT CODE (RAC) ANALYSIS

As part of this 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 inventoried. RAC is a pre-response priority sequencing tool that does not take cleanup actions into consideration. As designed by USACE, a site's RAC score is calculated and revised up to the end of the site's investigation as an expression of the explosives risk at the site. The RAC scoring performed under this CTT inventory is based on the ordnance determined to have been used, discarded, or disposed of at the CTT military range or UXO-DMM site as determined through interviews, installation visits, and historic records reviews and does not reflect any cleanup action s that may have already been performed at the installation. Hence, the RAC score may not reflect the current risk at the CTT military range or UXO-DMM site. DoD is currently developing a new priority assessment tool for sites with explosives risk. Until the new tool is approved for use, DoD is mandating the use of RAC scoring for the analysis of explosives risk associated with CTT military ranges and UXO-DMM sites identified during this CTT inventory.

The RAC process uses a worksheet that consists of a series of questions regarding the range or site. As the worksheet is completed, it defines a relative value for the severity and probability of explosives safety associated with the range or site. The worksheet then combines the severity and probability values to arrive at an overall score (RAC score). The RAC score is an estimate of the relative explosives risk, which is reported as a number between 1 and 5. 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 Explosives Safety Risk - Highest priority for further action. |
| RAC 2 | Serious Explosives Safety Risk - Priority for further action. |
| RAC 3 | Moderate Explosives Safety Risk - Recommend further action. |
| RAC 4 | Low Explosives Safety Risk - Recommend further action. |
| RAC 5 | Negligible Explosives Safety Risk - No explosive related action necessary. |

The area, probability value, severity value, and overall RAC score for each of the CTT range, UXO, and DMM sites in the inventory are provided in Table G-1. RAC scores are not appropriate for sites containing only MC. The completed RAC worksheets for each range and UXO-DMM site in the CTT inventory are also included in this section.

# RISK ASSESSMENT CODE WORKSHEETS
## Building 503

**THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES**

| | | | |
|---|---|---|---|
| **Site Name** | Building 503 | **Rater's Name** | Jusbyn Lockard |
| **Site Location** | Fort Wingate | **Phone Number** | (865) 483-9870 |
| **Range Classification** | Closed | **Organization** | URS Group, Inc. |
| **Date Completed** | 10/02/02 | **Score** | 4 |

**BACKGROUND:**

These risk assessment procedures were developed by the U.S. Army Engineering and Support Center, Huntsville, Ordnance and Explosives Team (CEHNC-OE) to prioritize the response action(s) at formerly used defense sites. The procedures were developed in accordance with MIL-STD 882C and AR 385-10.

The Department of Defense (DoD) is adopting the procedures, as an interim DoD-wide standard, to provide a set of uniform procedures for assessing explosives safety risks at Defense Environmental Restoration Program sites.

Risk Assessment Code (RAC) scores developed using these procedures will be used by DoD for risk assessment at sites suspected to contain unexploded ordnance (UXO) or other explosive safety hazards.

The risk assessment should be based on the best available information resulting from record searches, reports of Explosive Ordnance Disposal (EOD) Detachment actions, field observations, interviews, and measurements. This information is used to assess the risk involved base on the *potential* explosives safety hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability.

**PROCEDURES**

**PART I. HAZARD SEVERITY.** Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of UXO.

**TYPE OF ORDNANCE: (Circle all that apply)**

| A. | **Conventional ordnance and ammunition:** | **VALUE** |
|---|---|---|
| | Medium/large caliber (20mm and larger) | 10 |
| | Bombs, explosive | 10 |
| | Grenades, hand or rifle, explosive | 10 |
| | Landmine, explosive | 10 |
| | Rockets, guided missile, explosive | 10 |
| | Detonators, blasting caps, fuzes, boosters, bursters | 6 |
| | Bombs, practice (w/spotting charges) | 6 |
| | Grenades, practice (w/spotting charges) | 4 |
| | Landmine, practice (w/spotting charges) | 4 |
| | Small arms, complete round (.22 cal -.50 cal) | 1 |
| | Small arms, expended | 0 |
| | Practice ordnance (w/o spotting charges) | 0 |
| | **Conventional ordnance and ammunition (largest single value)** | **0** |

**What evidence do you have regarding conventional UXO?**

**No evidence.**

**TABLE 1:**
**HAZARD SEVERITY***

| DESCRIPTION | CATEGORY | HAZARD SEVERITY VALUE |
|---|---|---|
| CATASTROPHIC | I | 21 and/or greater |
| CRITICAL | II | 10 to 20 |
| MARGINAL | III | 5 to 9 |
| NEGLIGIBLE | IV | 1 to 4 |
| **NONE | V | 0 |

* Apply Hazard Severity Category to Table 3
**If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

**PART II. HAZARD PROBABILITY.** The probability that a hazard has been, or will be, created due to the presence and other rated factors of UXO or explosive materials on a BRAC site.

**AREA, EXTENT, ACCESSIBILITY OF UXO AND OE HAZARDS (Circle all that apply)**

**A. Locations of UXO and OE hazards:**

| | VALUE |
|---|---|
| On the surface | [5] |
| Within tanks, pipes, vessels, or other confined areas | 4 |
| Inside walls, ceilings, or other building/structure | [3] |
| Subsurface | 2 |
| **Location (select the single largest value)** | **5** |

**What evidence do you have regarding the location of UXO and OE?**

**ASR documented that contamination may be in the building structure and nearby leaching fields.**

**B. Distance to nearest inhabited location/structure likely to be at risk from the UXO or OE hazard (road, park, playground, building, etc.):**

| | VALUE |
|---|---|
| Less than 1,250 feet | 5 |
| 1,250 feet to 0.5 mile | 4 |
| 0.5 mile to 1.0 mile | [3] |
| 1.0 mile to 2.0 Miles | 2 |
| Over 2 miles | 1 |
| **Distance (select the single largest value)** | **3** |

**What are the nearest inhabited structures/buildings?**

**Located south of Highway 66.**

**C. Number(s) of building(s) within a 2-mile radius measured from the UXO or OE hazard area, not the installation boundary:**

| | VALUE |
|---|---|
| 26 and over | 5 |
| 16 to 25 | 4 |
| 11 to 15 | 3 |
| 6 to 10 | 2 |
| 1 to 5 | [1] |
| 0 | 0 |
| **Number of buildings (select the single largest value)** | **1** |

**Describe the site dynamics:**

**No evidence.**

**TOTAL HAZARD PROBABILITY VALUE** (sum of largest values for A through F): **16**
(maximum of 30)

Apply this value to Hazard Probability Table 2 to determine the Hazard Probability Level.

**TABLE 2**
**HAZARD PROBABILITY**

| DESCRIPTION | LEVEL | HAZARD PROBABILITY VALUE |
|---|---|---|
| FREQUENT | A | 27 or greater |
| PROBABLE | B | 21 to 26 |
| OCCASIONAL | C | 15 to 20 |
| REMOTE | D | 8 to 14 |
| IMPROBABLE | E | less than 8 |

*Apply Hazard Probability Level to Table 3.

**PART III. RISK ASSESSMENT.** The risk assessment value for this site is determined using the following table. Enter the results of the Hazard Probability and Hazard Severity values. If the Hazard Severity value is 0, a Hazard Probability is not calculated and a RAC score of 5 is assigned to the site.

**TABLE 3**
**RISK ASSESSMENT**

| PROBABILITY LEVEL | FREQUENT A | PROBABLE B | OCCASIONAL C | REMOTE D | IMPROBABLE E |
|---|---|---|---|---|---|
| SEVERITY CATEGORY: | | | | | |
| CATASTROPHIC I | 1 | 1 | 2 | 3 | 4 |
| CRITICAL II | 1 | 2 | 3 | 4 | 5 |
| MARGINAL III | 2 | 3 | 4 | 4 | 5 |
| NEGLIGIBLE IV | 3 | 4 | 4 | 5 | 5 |

**RISK ASSESSMENT CODE (RAC):**

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 – No explosive related action necessary.

**PART IV. NARRATIVE.** Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that were made.

**Soil contaminated with TNT components.**

RAC scores for the Army CTT inventory were developed from documentation of historical use.
Subsequent response actions may serve to reduce the explosive safety hazard, but will not change the RAC score.

# RISK ASSESSMENT CODE WORKSHEETS
## Deactivation Furnace

**THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES**

| | | | |
|---|---|---|---|
| **Site Name** | Deactivation Furnace | **Rater's Name** | Jusbyn Lockard |
| **Site Location** | Fort Wingate | **Phone Number** | (865) 483-9870 |
| **Range Classification** | Closed | **Organization** | URS Group, Inc. |
| **Date Completed** | 10/02/02 | **Score** | 3 |

**BACKGROUND:**

These risk assessment procedures were developed by the U.S. Army Engineering and Support Center, Huntsville, Ordnance and Explosives Team (CEHNC-OE) to prioritize the response action(s) at formerly used defense sites. The procedures were developed in accordance with MIL-STD 882C and AR 385-10.

The Department of Defense (DoD) is adopting the procedures, as an interim DoD-wide standard, to provide a set of uniform procedures for assessing explosives safety risks at Defense Environmental Restoration Program sites.

Risk Assessment Code (RAC) scores developed using these procedures will be used by DoD for risk assessment at sites suspected to contain unexploded ordnance (UXO) or other explosive safety hazards.

The risk assessment should be based on the best available information resulting from record searches, reports of Explosive Ordnance Disposal (EOD) Detachment actions, field observations, interviews, and measurements. This information is used to assess the risk involved base on the *potential* explosives safety hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability.

**PROCEDURES**

**PART I. HAZARD SEVERITY.** Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of UXO.

**TYPE OF ORDNANCE: (Circle all that apply)**

| A. | **Conventional ordnance and ammunition:** | **VALUE** |
|---|---|---|
| | Medium/large caliber (20mm and larger) | 10 |
| | Bombs, explosive | 10 |
| | Grenades, hand or rifle, explosive | 10 |
| | Landmine, explosive | 10 |
| | Rockets, guided missile, explosive | 10 |
| | Detonators, blasting caps, fuzes, boosters, bursters | 6 |
| | Bombs, practice (w/spotting charges) | 6 |
| | Grenades, practice (w/spotting charges) | 4 |
| | Landmine, practice (w/spotting charges) | 4 |
| | Small arms, complete round (.22 cal -.50 cal) | 1 |
| | Small arms, expended | 0 |
| | Practice ordnance (w/o spotting charges) | 0 |
| | **Conventional ordnance and ammunition (largest single value)** | **10** |

**What evidence do you have regarding conventional UXO?**

**As documented in the ASR, 47 live ordnance items were removed.**

**TABLE 1:**
**HAZARD SEVERITY***

| DESCRIPTION | CATEGORY | HAZARD SEVERITY VALUE |
|---|---|---|
| CATASTROPHIC | I | 21 and/or greater |
| CRITICAL | II | 10 to 20 |
| MARGINAL | III | 5 to 9 |
| NEGLIGIBLE | IV | 1 to 4 |
| **NONE | V | 0 |

* Apply Hazard Severity Category to Table 3
**If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

**PART II. HAZARD PROBABILITY.** The probability that a hazard has been, or will be, created due to the presence and other rated factors of UXO or explosive materials on a BRAC site.

**AREA, EXTENT, ACCESSIBILITY OF UXO AND OE HAZARDS (Circle all that apply)**

**A. Locations of UXO and OE hazards:**

| | VALUE |
|---|---|
| On the surface | [5] |
| Within tanks, pipes, vessels, or other confined areas | 4 |
| Inside walls, ceilings, or other building/structure | 3 |
| Subsurface | 2 |
| **Location (select the single largest value)** | **5** |

**What evidence do you have regarding the location of UXO and OE?**

**ASR documented that 3.5-in. practice rocket was removed from the surface.**

**B. Distance to nearest inhabited location/structure likely to be at risk from the UXO or OE hazard (road, park, playground, building, etc.):**

| | VALUE |
|---|---|
| Less than 1,250 feet | 5 |
| 1,250 feet to 0.5 mile | 4 |
| 0.5 mile to 1.0 mile | [3] |
| 1.0 mile to 2.0 Miles | 2 |
| Over 2 miles | 1 |
| **Distance (select the single largest value)** | **3** |

**What are the nearest inhabited structures/buildings?**

**Located south of Highway 66.**

**C. Number(s) of building(s) within a 2-mile radius measured from the UXO or OE hazard area, not the installation boundary:**

| | VALUE |
|---|---|
| 26 and over | 5 |
| 16 to 25 | 4 |
| 11 to 15 | 3 |
| 6 to 10 | 2 |
| 1 to 5 | [1] |
| 0 | 0 |
| **Number of buildings (select the single largest value)** | **1** |

**Describe the site dynamics:**

**No evidence.**

**TOTAL HAZARD PROBABILITY VALUE** (sum of largest values for A through F): **16**
(maximum of 30)

Apply this value to Hazard Probability Table 2 to determine the Hazard Probability Level.

**TABLE 2**
**HAZARD PROBABILITY**

| DESCRIPTION | LEVEL | HAZARD PROBABILITY VALUE |
|---|---|---|
| FREQUENT | A | 27 or greater |
| PROBABLE | B | 21 to 26 |
| OCCASIONAL | C | 15 to 20 |
| REMOTE | D | 8 to 14 |
| IMPROBABLE | E | less than 8 |

*Apply Hazard Probability Level to Table 3.

**PART III. RISK ASSESSMENT.** The risk assessment value for this site is determined using the following table. Enter the results of the Hazard Probability and Hazard Severity values. If the Hazard Severity value is 0, a Hazard Probability is not calculated and a RAC score of 5 is assigned to the site.

**TABLE 3**
**RISK ASSESSMENT**

| PROBABILITY LEVEL | | FREQUENT A | PROBABLE B | OCCASIONAL C | REMOTE D | IMPROBABLE E |
|---|---|---|---|---|---|---|
| SEVERITY CATEGORY: | | | | | | |
| CATASTROPHIC | I | 1 | 1 | 2 | 3 | 4 |
| CRITICAL | II | 1 | 2 | 3 | 4 | 5 |
| MARGINAL | III | 2 | 3 | 4 | 4 | 5 |
| NEGLIGIBLE | IV | 3 | 4 | 4 | 5 | 5 |

**RISK ASSESSMENT CODE (RAC):**

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 – No explosive related action necessary.

**PART IV. NARRATIVE.** Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that were made.

**As documented in the ASR, 47 live ordnance items were removed.**

RAC scores for the Army CTT inventory were developed from documentation of historical use.
Subsequent response actions may serve to reduce the explosive safety hazard, but will not change the RAC score.

# RISK ASSESSMENT CODE WORKSHEETS
## Functional Test Range 1 – MR Parcel

## THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

| | | | |
|---|---|---|---|
| **Site Name** | Functional Test Range 1 – MR Parcel | **Rater's Name** | Jusbyn Lockard |
| **Site Location** | Fort Wingate | **Phone Number** | (865) 483-9870 |
| **Range Classification** | Closed | **Organization** | URS Group, Inc. |
| **Date Completed** | 10/02/02 | **Score** | 4 |

**BACKGROUND:**

These risk assessment procedures were developed by the U.S. Army Engineering and Support Center, Huntsville, Ordnance and Explosives Team (CEHNC-OE) to prioritize the response action(s) at formerly used defense sites. The procedures were developed in accordance with MIL-STD 882C and AR 385-10.

The Department of Defense (DoD) is adopting the procedures, as an interim DoD-wide standard, to provide a set of uniform procedures for assessing explosives safety risks at Defense Environmental Restoration Program sites.

Risk Assessment Code (RAC) scores developed using these procedures will be used by DoD for risk assessment at sites suspected to contain unexploded ordnance (UXO) or other explosive safety hazards.

The risk assessment should be based on the best available information resulting from record searches, reports of Explosive Ordnance Disposal (EOD) Detachment actions, field observations, interviews, and measurements. This information is used to assess the risk involved base on the *potential* explosives safety hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability.

### PROCEDURES

**PART I. HAZARD SEVERITY.** Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of UXO.

**TYPE OF ORDNANCE: (Circle all that apply)**

| A. | **Conventional ordnance and ammunition:** | **VALUE** |
|---|---|---|
| | Medium/large caliber (20mm and larger) | 10 |
| | Bombs, explosive | 10 |
| | Grenades, hand or rifle, explosive | 10 |
| | Landmine, explosive | 10 |
| | Rockets, guided missile, explosive | 10 |
| | Detonators, blasting caps, fuzes, boosters, bursters | 6 |
| | Bombs, practice (w/spotting charges) | 6 |
| | Grenades, practice (w/spotting charges) | 4 |
| | Landmine, practice (w/spotting charges) | 4 |
| | Small arms, complete round (.22 cal -.50 cal) | 1 |
| | Small arms, expended | 0 |
| | Practice ordnance (w/o spotting charges) | 0 |
| | **Conventional ordnance and ammunition (largest single value)** | **4** |

**What evidence do you have regarding conventional UXO?**

**Facility used for testing flares and signal grenades.**

**TABLE 1:**
**HAZARD SEVERITY***

| DESCRIPTION | CATEGORY | HAZARD SEVERITY VALUE |
|---|---|---|
| CATASTROPHIC | I | 21 and/or greater |
| CRITICAL | II | 10 to 20 |
| MARGINAL | III | 5 to 9 |
| NEGLIGIBLE | IV | 1 to 4 |
| **NONE | V | 0 |

* Apply Hazard Severity Category to Table 3
**If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

**PART II. HAZARD PROBABILITY.** The probability that a hazard has been, or will be, created due to the presence and other rated factors of UXO or explosive materials on a BRAC site.

**AREA, EXTENT, ACCESSIBILITY OF UXO AND OE HAZARDS (Circle all that apply)**

**A. Locations of UXO and OE hazards:**

| | VALUE |
|---|---|
| On the surface | [5] |
| Within tanks, pipes, vessels, or other confined areas | 4 |
| Inside walls, ceilings, or other building/structure | 3 |
| Subsurface | 2 |
| **Location (select the single largest value)** | **5** |

**What evidence do you have regarding the location of UXO and OE?**

**B. Distance to nearest inhabited location/structure likely to be at risk from the UXO or OE hazard (road, park, playground, building, etc.):**

| | VALUE |
|---|---|
| Less than 1,250 feet | [5] |
| 1,250 feet to 0.5 mile | 4 |
| 0.5 mile to 1.0 mile | 3 |
| 1.0 mile to 2.0 Miles | 2 |
| Over 2 miles | 1 |
| **Distance (select the single largest value)** | **5** |

**What are the nearest inhabited structures/buildings?**

**Road close by.**

**C. Number(s) of building(s) within a 2-mile radius measured from the UXO or OE hazard area, not the installation boundary:**

| | VALUE |
|---|---|
| 26 and over | 5 |
| 16 to 25 | 4 |
| 11 to 15 | 3 |
| 6 to 10 | 2 |
| 1 to 5 | 1 |
| 0 | [0] |
| **Number of buildings (select the single largest value)** | **0** |

**Describe the site dynamics:**

**No evidence.**

**TOTAL HAZARD PROBABILITY VALUE** (sum of largest values for A through F): **11**
(maximum of 30)

Apply this value to Hazard Probability Table 2 to determine the Hazard Probability Level.

**TABLE 2**
**HAZARD PROBABILITY**

| DESCRIPTION | LEVEL | HAZARD PROBABILITY VALUE |
|---|---|---|
| FREQUENT | A | 27 or greater |
| PROBABLE | B | 21 to 26 |
| OCCASIONAL | C | 15 to 20 |
| REMOTE | D | 8 to 14 |
| IMPROBABLE | E | less than 8 |

*Apply Hazard Probability Level to Table 3.

**PART III. RISK ASSESSMENT.** The risk assessment value for this site is determined using the following table. Enter the results of the Hazard Probability and Hazard Severity values. If the Hazard Severity value is 0, a Hazard Probability is not calculated and a RAC score of 5 is assigned to the site.

**TABLE 3**
**RISK ASSESSMENT**

| PROBABILITY LEVEL | | FREQUENT A | PROBABLE B | OCCASIONAL C | REMOTE D | IMPROBABLE E |
|---|---|---|---|---|---|---|
| SEVERITY CATEGORY: | | | | | | |
| CATASTROPHIC | I | 1 | 1 | 2 | 3 | 4 |
| CRITICAL | II | 1 | 2 | 3 | 4 | 5 |
| MARGINAL | III | 2 | 3 | 4 | 4 | 5 |
| NEGLIGIBLE | IV | 3 | 4 | 4 | 5 | 5 |

**RISK ASSESSMENT CODE (RAC):**

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 – No explosive related action necessary.

**PART IV. NARRATIVE.** Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that were made.

**Functional Test Range 1 was used to test flare and signal grenades. Also used for burning powder.**

RAC scores for the Army CTT inventory were developed from documentation of historical use.
Subsequent response actions may serve to reduce the explosive safety hazard, but will not change the RAC score.

# RISK ASSESSMENT CODE WORKSHEETS
## Functional Test Range 2/3

## THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

| | | | |
|---|---|---|---|
| **Site Name** | Functional Test Range 2/3 | **Rater's Name** | Jusbyn Lockard |
| **Site Location** | Fort Wingate | **Phone Number** | (865) 483-9870 |
| **Range Classification** | Closed | **Organization** | URS Group, Inc. |
| **Date Completed** | 10/02/02 | **Score** | 4 |

**BACKGROUND:**
These risk assessment procedures were developed by the U.S. Army Engineering and Support Center, Huntsville, Ordnance and Explosives Team (CEHNC-OE) to prioritize the response action(s) at formerly used defense sites. The procedures were developed in accordance with MIL-STD 882C and AR 385-10.

The Department of Defense (DoD) is adopting the procedures, as an interim DoD-wide standard, to provide a set of uniform procedures for assessing explosives safety risks at Defense Environmental Restoration Program sites.

Risk Assessment Code (RAC) scores developed using these procedures will be used by DoD for risk assessment at sites suspected to contain unexploded ordnance (UXO) or other explosive safety hazards.

The risk assessment should be based on the best available information resulting from record searches, reports of Explosive Ordnance Disposal (EOD) Detachment actions, field observations, interviews, and measurements. This information is used to assess the risk involved base on the *potential* explosives safety hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability.

### PROCEDURES

**PART I. HAZARD SEVERITY.** Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of UXO.

**TYPE OF ORDNANCE: (Circle all that apply)**

| A. | **Conventional ordnance and ammunition:** | **VALUE** |
|---|---|---|
| | Medium/large caliber (20mm and larger) | 10 |
| | Bombs, explosive | 10 |
| | Grenades, hand or rifle, explosive | 10 |
| | Landmine, explosive | 10 |
| | Rockets, guided missile, explosive | 10 |
| | Detonators, blasting caps, fuzes, boosters, bursters | 6 |
| | Bombs, practice (w/spotting charges) | 6 |
| | Grenades, practice (w/spotting charges) | 4 |
| | Landmine, practice (w/spotting charges) | 4 |
| | Small arms, complete round (.22 cal -.50 cal) | 1 |
| | Small arms, expended | 0 |
| | Practice ordnance (w/o spotting charges) | 0 |
| | **Conventional ordnance and ammunition (largest single value)** | **4** |

**What evidence do you have regarding conventional UXO?**

**Facility used for testing flares and signal grenades.**

**TABLE 1:**
**HAZARD SEVERITY***

| DESCRIPTION | CATEGORY | HAZARD SEVERITY VALUE |
|---|---|---|
| CATASTROPHIC | I | 21 and/or greater |
| CRITICAL | II | 10 to 20 |
| MARGINAL | III | 5 to 9 |
| NEGLIGIBLE | IV | 1 to 4 |
| **NONE | V | 0 |

* Apply Hazard Severity Category to Table 3
**If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

**PART II. HAZARD PROBABILITY.** The probability that a hazard has been, or will be, created due to the presence and other rated factors of UXO or explosive materials on a BRAC site.

**AREA, EXTENT, ACCESSIBILITY OF UXO AND OE HAZARDS (Circle all that apply)**

**A. Locations of UXO and OE hazards:**

| | VALUE |
|---|---|
| On the surface | 5 |
| Within tanks, pipes, vessels, or other confined areas | 4 |
| Inside walls, ceilings, or other building/structure | 3 |
| Subsurface | 2 |
| **Location (select the single largest value)** | **5** |

**What evidence do you have regarding the location of UXO and OE?**

**B. Distance to nearest inhabited location/structure likely to be at risk from the UXO or OE hazard (road, park, playground, building, etc.):**

| | VALUE |
|---|---|
| Less than 1,250 feet | 5 |
| 1,250 feet to 0.5 mile | 4 |
| 0.5 mile to 1.0 mile | 3 |
| 1.0 mile to 2.0 Miles | 2 |
| Over 2 miles | 1 |
| **Distance (select the single largest value)** | **5** |

**What are the nearest inhabited structures/buildings?**

**Road close by.**

**C. Number(s) of building(s) within a 2-mile radius measured from the UXO or OE hazard area, not the installation boundary:**

| | VALUE |
|---|---|
| 26 and over | 5 |
| 16 to 25 | 4 |
| 11 to 15 | 3 |
| 6 to 10 | 2 |
| 1 to 5 | 1 |
| 0 | 0 |
| **Number of buildings (select the single largest value)** | **0** |

**Describe the site dynamics:**

**No evidence.**

**TOTAL HAZARD PROBABILITY VALUE** (sum of largest values for A through F): **11**
(maximum of 30)

Apply this value to Hazard Probability Table 2 to determine the Hazard Probability Level.

**TABLE 2**
**HAZARD PROBABILITY**

| DESCRIPTION | LEVEL | HAZARD PROBABILITY VALUE |
|---|---|---|
| FREQUENT | A | 27 or greater |
| PROBABLE | B | 21 to 26 |
| OCCASIONAL | C | 15 to 20 |
| REMOTE | D | 8 to 14 |
| IMPROBABLE | E | less than 8 |

*Apply Hazard Probability Level to Table 3.

**PART III. RISK ASSESSMENT.** The risk assessment value for this site is determined using the following table. Enter the results of the Hazard Probability and Hazard Severity values. If the Hazard Severity value is 0, a Hazard Probability is not calculated and a RAC score of 5 is assigned to the site.

**TABLE 3**
**RISK ASSESSMENT**

| PROBABILITY LEVEL | | FREQUENT A | PROBABLE B | OCCASIONAL C | REMOTE D | IMPROBABLE E |
|---|---|---|---|---|---|---|
| SEVERITY CATEGORY: | | | | | | |
| CATASTROPHIC | I | 1 | 1 | 2 | 3 | 4 |
| CRITICAL | II | 1 | 2 | 3 | 4 | 5 |
| MARGINAL | III | 2 | 3 | 4 | 4 | 5 |
| NEGLIGIBLE | IV | 3 | 4 | 4 | 5 | 5 |

**RISK ASSESSMENT CODE (RAC):**

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 – No explosive related action necessary.

**PART IV. NARRATIVE.** Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that were made.

**Functional Test Range 2/3 was used to test flare and signal grenades.**

RAC scores for the Army CTT inventory were developed from documentation of historical use.
Subsequent response actions may serve to reduce the explosive safety hazard, but will not change the RAC score.

# RISK ASSESSMENT CODE WORKSHEETS
## Sewage Treatment Plant

## THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

| | | | |
|---|---|---|---|
| **Site Name** | Sewage Treatment Plant | **Rater's Name** | Jusbyn Lockard |
| **Site Location** | Fort Wingate | **Phone Number** | (865) 483-9870 |
| **Range Classification** | Closed | **Organization** | URS Group, Inc. |
| **Date Completed** | 10/02/02 | **Score** | 3 |

**BACKGROUND:**

These risk assessment procedures were developed by the U.S. Army Engineering and Support Center, Huntsville, Ordnance and Explosives Team (CEHNC-OE) to prioritize the response action(s) at formerly used defense sites. The procedures were developed in accordance with MIL-STD 882C and AR 385-10.

The Department of Defense (DoD) is adopting the procedures, as an interim DoD-wide standard, to provide a set of uniform procedures for assessing explosives safety risks at Defense Environmental Restoration Program sites.

Risk Assessment Code (RAC) scores developed using these procedures will be used by DoD for risk assessment at sites suspected to contain unexploded ordnance (UXO) or other explosive safety hazards.

The risk assessment should be based on the best available information resulting from record searches, reports of Explosive Ordnance Disposal (EOD) Detachment actions, field observations, interviews, and measurements. This information is used to assess the risk involved base on the *potential* explosives safety hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability.

### PROCEDURES

**PART I. HAZARD SEVERITY.** Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of UXO.

**TYPE OF ORDNANCE: (Circle all that apply)**

| A. | **Conventional ordnance and ammunition:** | **VALUE** |
|---|---|---|
| | Medium/large caliber (20mm and larger) | 10 |
| | Bombs, explosive | 10 |
| | Grenades, hand or rifle, explosive | 10 |
| | Landmine, explosive | 10 |
| | Rockets, guided missile, explosive | 10 |
| | Detonators, blasting caps, fuzes, boosters, bursters | 6 |
| | Bombs, practice (w/spotting charges) | 6 |
| | Grenades, practice (w/spotting charges) | 4 |
| | Landmine, practice (w/spotting charges) | 4 |
| | Small arms, complete round (.22 cal -.50 cal) | 1 |
| | Small arms, expended | 0 |
| | Practice ordnance (w/o spotting charges) | 0 |
| | **Conventional ordnance and ammunition (largest single value)** | **10** |

**What evidence do you have regarding conventional UXO?**

**UXO survey found 20mm AP-T and 40mm projectiles to below 6 in. of the surface. 7,930 live ordnance items were removed.**

**TABLE 1:**
**HAZARD SEVERITY***

| DESCRIPTION | CATEGORY | HAZARD SEVERITY VALUE |
|---|---|---|
| CATASTROPHIC | I | 21 and/or greater |
| CRITICAL | II | 10 to 20 |
| MARGINAL | III | 5 to 9 |
| NEGLIGIBLE | IV | 1 to 4 |
| **NONE | V | 0 |

* Apply Hazard Severity Category to Table 3
**If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

**PART II. HAZARD PROBABILITY.** The probability that a hazard has been, or will be, created due to the presence and other rated factors of UXO or explosive materials on a BRAC site.

**AREA, EXTENT, ACCESSIBILITY OF UXO AND OE HAZARDS (Circle all that apply)**

| A. **Locations of UXO and OE hazards:** | **VALUE** |
|---|---|
| On the surface | [5] |
| Within tanks, pipes, vessels, or other confined areas | 4 |
| Inside walls, ceilings, or other building/structure | 3 |
| Subsurface | 2 |
| **Location (select the single largest value)** | **5** |

**What evidence do you have regarding the location of UXO and OE?**

**Found to 6 in. subsurface.**

| B. **Distance to nearest inhabited location/structure likely to be at risk from the UXO or OE hazard (road, park, playground, building, etc.):** | **VALUE** |
|---|---|
| Less than 1,250 feet | 5 |
| 1,250 feet to 0.5 mile | 4 |
| 0.5 mile to 1.0 mile | [3] |
| 1.0 mile to 2.0 Miles | 2 |
| Over 2 miles | 1 |
| **Distance (select the single largest value)** | **3** |

**What are the nearest inhabited structures/buildings?**

**Located south of Highway 66.**

| C. **Number(s) of building(s) within a 2-mile radius measured from the UXO or OE hazard area, not the installation boundary:** | **VALUE** |
|---|---|
| 26 and over | 5 |
| 16 to 25 | 4 |
| 11 to 15 | 3 |
| 6 to 10 | 2 |
| 1 to 5 | [1] |
| 0 | 0 |
| **Number of buildings (select the single largest value)** | **1** |

**Describe the site dynamics:**

**No evidence.**

**TOTAL HAZARD PROBABILITY VALUE** (sum of largest values for A through F): **16**
(maximum of 30)

Apply this value to Hazard Probability Table 2 to determine the Hazard Probability Level.

**TABLE 2**
**HAZARD PROBABILITY**

| DESCRIPTION | LEVEL | HAZARD PROBABILITY VALUE |
|---|---|---|
| FREQUENT | A | 27 or greater |
| PROBABLE | B | 21 to 26 |
| OCCASIONAL | C | 15 to 20 |
| REMOTE | D | 8 to 14 |
| IMPROBABLE | E | less than 8 |

*Apply Hazard Probability Level to Table 3.

**PART III. RISK ASSESSMENT.** The risk assessment value for this site is determined using the following table. Enter the results of the Hazard Probability and Hazard Severity values. If the Hazard Severity value is 0, a Hazard Probability is not calculated and a RAC score of 5 is assigned to the site.

**TABLE 3**
**RISK ASSESSMENT**

| PROBABILITY LEVEL | | FREQUENT A | PROBABLE B | OCCASIONAL C | REMOTE D | IMPROBABLE E |
|---|---|---|---|---|---|---|
| SEVERITY CATEGORY: | | | | | | |
| CATASTROPHIC | I | 1 | 1 | 2 | 3 | 4 |
| CRITICAL | II | 1 | 2 | 3 | 4 | 5 |
| MARGINAL | III | 2 | 3 | 4 | 4 | 5 |
| NEGLIGIBLE | IV | 3 | 4 | 4 | 5 | 5 |

**RISK ASSESSMENT CODE (RAC):**

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 – No explosive related action necessary.

**PART IV. NARRATIVE.** Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that were made.

**UXO survey found 20mm AP-T and 40mm projectiles.**

RAC scores for the Army CTT inventory were developed from documentation of historical use. Subsequent response actions may serve to reduce the explosive safety hazard, but will not change the RAC score.

**Narrative:**

**There is little to no inhabitants surrounding the facility.**

**D. Types of Buildings (within a 2 mile radius):**

| | VALUE |
|---|---|
| Educational, child care, residential, hospitals hotels, commercial, shopping centers | 5 |
| Industrial, warehouse, etc. | 4 |
| Agricultural, forestry, etc. | 3 |
| Detention, correctional | 2 |
| No buildings | 0 |
| **Types of buildings (select the single largest value)** | **4** |

**Describe the types of buildings:**

**Observed.**

**E. Accessibility to site refers to access by humans to ordnance and explosives.**

| **Use the following guidance:** | VALUE |
|---|---|
| No barrier nor security system | 5 |
| Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. | 4 |
| A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site. | 3 |
| Security guard, but no barrier | 2 |
| Isolated site | 1 |
| A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) that completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area). | 0 |
| **Accessibility (select the single largest value)** | **3** |

**Describe the site accessibility:**

**Perimeter fencing, locked gates.**

**F. Site Dynamics. This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion on beaches or streams and increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.**

| | VALUE |
|---|---|
| Expected | 5 |
| None anticipated | 0 |
| **Site Dynamics (select the single largest value)** | **0** |

| B. | **Pyrotechnics (for munitions not described above):** | **VALUE** |
|---|---|---|
| | Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) | 10 |
| | Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) | 6 |
| | Flares, signals, simulators, screening smokes (other than WP) | 4 |
| | **Pyrotechnics (select the single largest value)** | **0** |

**What evidence do you have regarding pyrotechnics?**

**No evidence.**

| C. | **Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized):** | **VALUE** |
|---|---|---|
| | Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin, mercury azide, mercury fulminate, tetracene, etc.) | 10 |
| | Demolition charges | 10 |
| | Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.) | 8 |
| | Military dynamite | 6 |
| | Less sensitive explosives (ammonium nitrate, Explosive D, etc.) | 3 |
| | **High explosives (select the single largest value)** | **0** |

**What evidence do you have regarding bulk explosives?**

**No evidence.**

| D. | **Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized):** | **VALUE** |
|---|---|---|
| | Solid or liquid propellants | 6 |
| | **Propellants** | **0** |

**What evidence do you have regarding bulk propellants?**

**No evidence.**

| E. | **Chemical Warfare Materiel (CWM) and Radiological Weapons:** | **VALUE** |
|---|---|---|
| | Toxic chemical agents (choking, nerve, blood, blister) | 25 |
| | War Gas Identification Sets | 20 |
| | Radiological | 15 |
| | Riot Control Agents (vomiting, tear) | 5 |
| | **Chemical and Radiological (select the single largest value)** | **0** |

**What evidence do you have regarding chemical or radiological?**

**No evidence.**

**TOTAL HAZARD SEVERITY VALUE** (Sum of values A through E): 10 (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

**Narrative:**

**No evidence.**

**D. Types of Buildings (within a 2 mile radius):**

| | VALUE |
|---|---|
| Educational, child care, residential, hospitals hotels, commercial, shopping centers | 5 |
| Industrial, warehouse, etc. | 4 |
| Agricultural, forestry, etc. | 3 |
| Detention, correctional | 2 |
| No buildings | 0 |
| **Types of buildings (select the single largest value)** | **0** |

**Describe the types of buildings:**

**No evidence.**

**E. Accessibility to site refers to access by humans to ordnance and explosives.**

| **Use the following guidance:** | VALUE |
|---|---|
| No barrier nor security system | 5 |
| Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. | 4 |
| A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site. | 3 |
| Security guard, but no barrier | 2 |
| Isolated site | 1 |
| A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) that completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area). | 0 |
| **Accessibility (select the single largest value)** | **1** |

**Describe the site accessibility:**

**Isolated site with perimeter fencing and locked gates.**

**F. Site Dynamics. This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion on beaches or streams and increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.**

| | VALUE |
|---|---|
| Expected | 5 |
| None anticipated | 0 |
| **Site Dynamics (select the single largest value)** | **0** |

| B. | **Pyrotechnics (for munitions not described above):** | **VALUE** |
|---|---|---|
| | Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) | 10 |
| | Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) | 6 |
| | Flares, signals, simulators, screening smokes (other than WP) | 4 |
| | **Pyrotechnics (select the single largest value)** | **4** |

**What evidence do you have regarding pyrotechnics?**

**Functional Test Range 2/3 was used to test flare and signal grenades.**

| C. | **Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized):** | **VALUE** |
|---|---|---|
| | Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin, mercury azide, mercury fulminate, tetracene, etc.) | 10 |
| | Demolition charges | 10 |
| | Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.) | 8 |
| | Military dynamite | 6 |
| | Less sensitive explosives (ammonium nitrate, Explosive D, etc.) | 3 |
| | **High explosives (select the single largest value)** | **0** |

**What evidence do you have regarding bulk explosives?**

**No evidence.**

| D. | **Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized):** | **VALUE** |
|---|---|---|
| | Solid or liquid propellants | 6 |
| | **Propellants** | **0** |

**What evidence do you have regarding bulk propellants?**

**No evidence.**

| E. | **Chemical Warfare Materiel (CWM) and Radiological Weapons:** | **VALUE** |
|---|---|---|
| | Toxic chemical agents (choking, nerve, blood, blister) | 25 |
| | War Gas Identification Sets | 20 |
| | Radiological | 15 |
| | Riot Control Agents (vomiting, tear) | 5 |
| | **Chemical and Radiological (select the single largest value)** | **0** |

**What evidence do you have regarding chemical or radiological?**

**No evidence.**

**TOTAL HAZARD SEVERITY VALUE** (Sum of values A through E): 8 (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

**Narrative:**

**No evidence.**

**D. Types of Buildings (within a 2 mile radius):**

| | VALUE |
|---|---|
| Educational, child care, residential, hospitals hotels, commercial, shopping centers | 5 |
| Industrial, warehouse, etc. | 4 |
| Agricultural, forestry, etc. | 3 |
| Detention, correctional | 2 |
| No buildings | 0 |
| **Types of buildings (select the single largest value)** | **0** |

**Describe the types of buildings:**

**No evidence.**

**E. Accessibility to site refers to access by humans to ordnance and explosives.**

| **Use the following guidance:** | VALUE |
|---|---|
| No barrier nor security system | 5 |
| Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. | 4 |
| A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site. | 3 |
| Security guard, but no barrier | 2 |
| Isolated site | 1 |
| A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) that completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area). | 0 |
| **Accessibility (select the single largest value)** | **1** |

**Describe the site accessibility:**

**Isolated site with perimeter fencing and locked gates.**

**F. Site Dynamics. This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion on beaches or streams and increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.**

| | VALUE |
|---|---|
| Expected | 5 |
| None anticipated | 0 |
| **Site Dynamics (select the single largest value)** | **0** |

| B. | **Pyrotechnics (for munitions not described above):** | **VALUE** |
|---|---|---|
| | Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) | 10 |
| | Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) | 6 |
| | Flares, signals, simulators, screening smokes (other than WP) | 4 |
| | **Pyrotechnics (select the single largest value)** | **4** |

**What evidence do you have regarding pyrotechnics?**

**Functional Test Range 1 was used to test flare and signal grenades.**

| C. | **Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized):** | **VALUE** |
|---|---|---|
| | Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin, mercury azide, mercury fulminate, tetracene, etc.) | 10 |
| | Demolition charges | 10 |
| | Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.) | 8 |
| | Military dynamite | 6 |
| | Less sensitive explosives (ammonium nitrate, Explosive D, etc.) | 3 |
| | **High explosives (select the single largest value)** | **8** |

**What evidence do you have regarding bulk explosives?**

**No evidence.**

| D. | **Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized):** | **VALUE** |
|---|---|---|
| | Solid or liquid propellants | 6 |
| | **Propellants** | **0** |

**What evidence do you have regarding bulk propellants?**

**No evidence.**

| E. | **Chemical Warfare Materiel (CWM) and Radiological Weapons:** | **VALUE** |
|---|---|---|
| | Toxic chemical agents (choking, nerve, blood, blister) | 25 |
| | War Gas Identification Sets | 20 |
| | Radiological | 15 |
| | Riot Control Agents (vomiting, tear) | 5 |
| | **Chemical and Radiological (select the single largest value)** | **0** |

**What evidence do you have regarding chemical or radiological?**

**No evidence.**

**TOTAL HAZARD SEVERITY VALUE** (Sum of values A through E): 16 (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

**Narrative:**

**Observed.**

**D. Types of Buildings (within a 2 mile radius):**

| | VALUE |
|---|---|
| Educational, child care, residential, hospitals hotels, commercial, shopping centers | 5 |
| Industrial, warehouse, etc. | 4 |
| Agricultural, forestry, etc. | 3 |
| Detention, correctional | 2 |
| No buildings | 0 |
| **Types of buildings (select the single largest value)** | **4** |

**Describe the types of buildings:**

**Observed.**

**E. Accessibility to site refers to access by humans to ordnance and explosives.**

| **Use the following guidance:** | VALUE |
|---|---|
| No barrier nor security system | 5 |
| Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. | 4 |
| A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site. | 3 |
| Security guard, but no barrier | 2 |
| Isolated site | 1 |
| A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) that completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area). | 0 |
| **Accessibility (select the single largest value)** | **3** |

**Describe the site accessibility:**

**Perimeter fencing, locked gates.**

**F. Site Dynamics. This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion on beaches or streams and increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.**

| | VALUE |
|---|---|
| Expected | 5 |
| None anticipated | 0 |
| **Site Dynamics (select the single largest value)** | **0** |

| B. | **Pyrotechnics (for munitions not described above):** | **VALUE** |
|---|---|---|
| | Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) | 10 |
| | Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) | 6 |
| | Flares, signals, simulators, screening smokes (other than WP) | 4 |
| | **Pyrotechnics (select the single largest value)** | **0** |

**What evidence do you have regarding pyrotechnics?**

**No evidence.**

| C. | **Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized):** | **VALUE** |
|---|---|---|
| | Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin, mercury azide, mercury fulminate, tetracene, etc.) | 10 |
| | Demolition charges | 10 |
| | Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.) | 8 |
| | Military dynamite | 6 |
| | Less sensitive explosives (ammonium nitrate, Explosive D, etc.) | 3 |
| | **High explosives (select the single largest value)** | **0** |

**What evidence do you have regarding bulk explosives?**

**No evidence.**

| D. | **Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized):** | **VALUE** |
|---|---|---|
| | Solid or liquid propellants | 6 |
| | **Propellants** | **0** |

**What evidence do you have regarding bulk propellants?**

**No evidence.**

| E. | **Chemical Warfare Materiel (CWM) and Radiological Weapons:** | **VALUE** |
|---|---|---|
| | Toxic chemical agents (choking, nerve, blood, blister) | 25 |
| | War Gas Identification Sets | 20 |
| | Radiological | 15 |
| | Riot Control Agents (vomiting, tear) | 5 |
| | **Chemical and Radiological (select the single largest value)** | **0** |

**What evidence do you have regarding chemical or radiological?**

**No evidence.**

**TOTAL HAZARD SEVERITY VALUE** (Sum of values A through E): 10 (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

**Narrative:**

**Observed.**

**D. Types of Buildings (within a 2 mile radius):**

| | VALUE |
|---|---|
| Educational, child care, residential, hospitals hotels, commercial, shopping centers | 5 |
| Industrial, warehouse, etc. | 4 |
| Agricultural, forestry, etc. | 3 |
| Detention, correctional | 2 |
| No buildings | 0 |
| **Types of buildings (select the single largest value)** | **4** |

**Describe the types of buildings:**

**Observed.**

**E. Accessibility to site refers to access by humans to ordnance and explosives.**

| **Use the following guidance:** | VALUE |
|---|---|
| No barrier nor security system | 5 |
| Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. | 4 |
| A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site. | 3 |
| Security guard, but no barrier | 2 |
| Isolated site | 1 |
| A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) that completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area). | 0 |
| **Accessibility (select the single largest value)** | **3** |

**Describe the site accessibility:**

**Perimeter fencing, locked gates.**

**F. Site Dynamics. This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion on beaches or streams and increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.**

| | VALUE |
|---|---|
| Expected | 5 |
| None anticipated | 0 |
| **Site Dynamics (select the single largest value)** | **0** |

| B. | **Pyrotechnics (for munitions not described above):** | **VALUE** |
|---|---|---|
| | Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) | 10 |
| | Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) | 6 |
| | Flares, signals, simulators, screening smokes (other than WP) | 4 |
| | **Pyrotechnics (select the single largest value)** | **0** |

**What evidence do you have regarding pyrotechnics?**

**No evidence.**

| C. | **Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized):** | **VALUE** |
|---|---|---|
| | Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin, mercury azide, mercury fulminate, tetracene, etc.) | 10 |
| | Demolition charges | 10 |
| | Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.) | 8 |
| | Military dynamite | 6 |
| | Less sensitive explosives (ammonium nitrate, Explosive D, etc.) | 3 |
| | **High explosives (select the single largest value)** | **8** |

**What evidence do you have regarding bulk explosives?**

**During a survey, contamination was found in the leaching fields.**

| D. | **Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized):** | **VALUE** |
|---|---|---|
| | Solid or liquid propellants | 6 |
| | **Propellants** | **0** |

**What evidence do you have regarding bulk propellants?**

**No evidence.**

| E. | **Chemical Warfare Materiel (CWM) and Radiological Weapons:** | **VALUE** |
|---|---|---|
| | Toxic chemical agents (choking, nerve, blood, blister) | 25 |
| | War Gas Identification Sets | 20 |
| | Radiological | 15 |
| | Riot Control Agents (vomiting, tear) | 5 |
| | **Chemical and Radiological (select the single largest value)** | **0** |

**What evidence do you have regarding chemical or radiological?**

**No evidence.**

**TOTAL HAZARD SEVERITY VALUE** (Sum of values A through E): 8 (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

## Table G-1: Risk Assessment Code Analysis Results

| Installation | Range or Site Name | Acres | Severity* | Probability** | RAC Score |
|---|---|---|---|---|---|
| Wingate | Building 503 | 2.4 | III | C | 4 |
| Wingate | Deactivation Furnace | 20.9 | II | C | 3 |
| Wingate | Functional Test Range 1 – MR Parcel | 372.8 | II | D | 4 |
| Wingate | Functional Test Range 2/3 | 585.0 | III | D | 4 |
| Wingate | Sewage Treatment Plant | 9.9 | II | C | 3 |

* Severity – 5 possible classifications from I (catastrophic) to V (none).
** Probability – 5 possible classifications from A (frequent) to E (improbable).
*** According to the RAC worksheet instructions, if the severity value is V, the probability value does not need to be calculated and a RAC value of 5 should be assigned to the range.