Closed, Transferring, and Transferred Range and Site Inventory Report





SENECA ARMY DEPOT ACTIVITY BR Property,

10210

NEW YORK

Army Materiel Command

Seneca Army Depot

5 December 2002



6 December 2002



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

Subject: Transmittal of draft BRAC CTT Range Inventory Report for Seneca Army Depot, New York

Dear Mr. Bryant:

URS Group, Inc. is pleased to submit two copies of the subject draft BRAC CTT Range report for Army Environmental Center review and comment. Four additional copies are submitted to other reviewers, as shown in the distribution list below. The document consists of text, a CTT Range, UXO-DMM-MC Sites Map, a printout of ARID data, and RAC score sheets. No electronic files are included in this draft.

According to the schedule provided in Mr. Boldt's 14 March 2002 e-mail, comments are due from reviewers at AEC, BRACO, BRAC Regional offices, and the installation within 45 days. URS will then have 30 days to resolve comments and return the final document to AEC.

If you have questions or comments, please call me at (865) 220-8134 or Chris Wieland at (865) 220-8202.

Sincerely,

LC. Will for

Thomas D. Sherrod Project Manager

c: G. Boldt, USACE, Los Angeles (1 copy) J. Davidson, BRAC-NCR (1 copy) R. Stauber, BRACO (1 copy) S. Absolom, Seneca Army Depot (1 copy) C. Wieland (1 copy) R. Marshall (electronic)

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DRAFT U.S. ARMY CLOSED, TRANSFERRING, AND TRANSFERRED RANGE and SITE INVENTORY FOR SENECA ARMY DEPOT ACTIVITY BRAC PROPERTY, NEW YORK

5 December 2002

Prepared for: U.S. Army Environmental Center and Seneca Army Depot Activity, New York

Prepared by:

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

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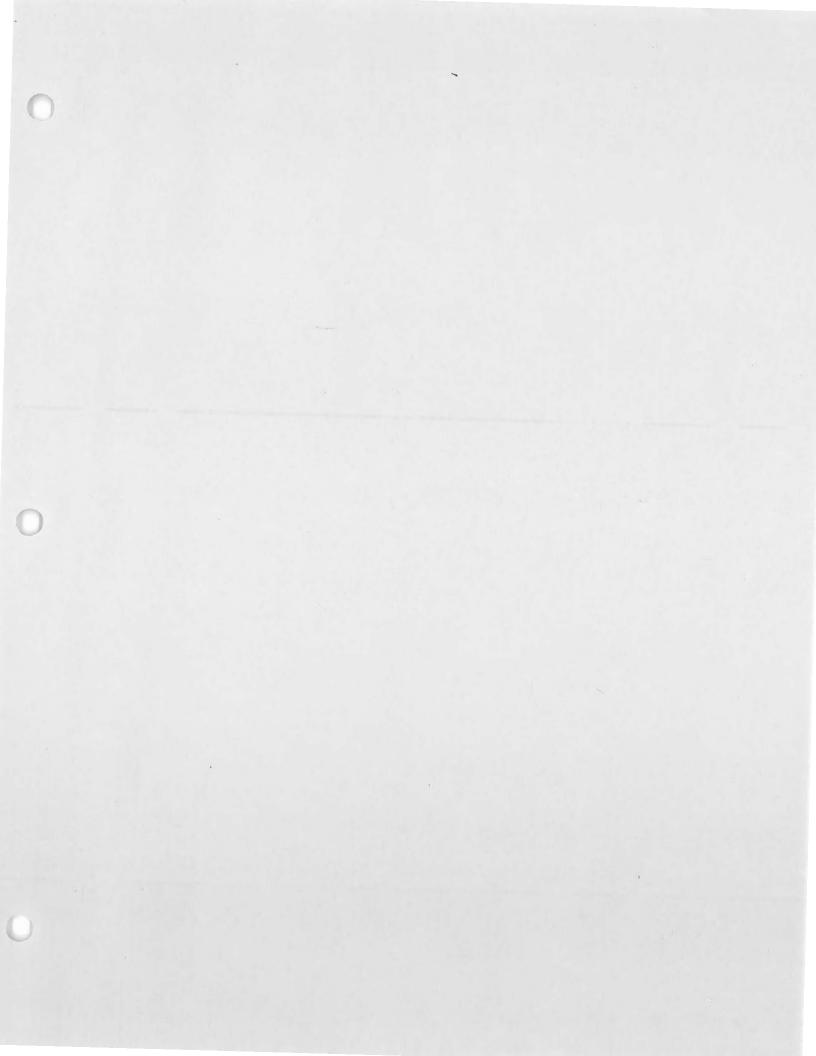
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ABBREVIATIONS/ACRONYMS

AEC AFB A/I ARID ARS ASR BRAC CTC CTT DERP DMM DoD DOE DSERTS EE/CA EOD FFID FUDS GIS HE IRP LPA LTA LTA LZ MACOM MC MMRP NPA	Army Environmental Center Air Force Base Active and Inactive Army Range Inventory Database Advance Range Survey Archives Search Report Base Realignment and Closure Cost to Complete Closed, Transferring, and Transferred Defense Environmental Restoration Program Discarded Military Munitions Department of Defense Department of Energy Defense Site Environmental Restoration Tracking System Engineering Evaluation/Cost Analysis Explosive Ordnance Disposal Federal Facility Identification Formally Used Defense Site Geographic Information System High Explosives Installation Restoration Program Limited Public Access Local Training Area Landing Zone Major Command Munitions Constituents Military Munitions Response Program No Public Access
NPA NYDOC	
OB	Open Burn
OD	Open Detonation
OE RA	Ordnance and Explosives Remedial Action
RAC	Risk Assessment Code
RC RCRA	Response Complete Resource Conservation and Recovery Act
RMIS	Restoration Management Information System
RPA SEAD	Restricted Public Access Seneca Army Depot
UPA	Unlimited Public Access
USACE	U.S. Army Corp of Engineers
USCG UXO	U.S. Coast Guard Unexploded Ordnance
WMM	Waste Military Munitions
WP	White Phosphorus

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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).

No Phase 2 inventory was performed for Seneca Army Depot Activity (SEAD) because no A/I ranges are reported to exist at the facility. The installation has been included under 1995 Base Realignment and Closure (BRAC), and all ranges are in closed, transferring, or transferred status.

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

Specific requirements of the CTT inventory for SEAD 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 October and November 2001 and involved a site visit to the installation. While on-site, the CTT

inventory team reviewed historical records and interviewed installation personnel concerning potential CTT ranges UXO-DMM-MC sites. This report presents the results of the CTT inventory conducted at SEAD 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 SEAD BRAC Property, located in Romulus, New York. The report includes an individual CTT map for the installation, a copy of the data tables that will be submitted electronically to AEC for uploading into ARID, completed RAC worksheets for all sites with UXO-DMM-MC, 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, SEAD. 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

SEAD [Federal Facility Identification (FFID): NY213820803] is a 10,622.8-acre former ammunition depot built in 1941 and active until closure in July 2000. Its mission was to receive, store, and issue munitions and general stores. At the close of World War II, SEAD was tasked with maintaining and servicing munitions, and carried out demilitarization operations on vast stores of unneeded munitions returned from the war zones. SEAD handled virtually every conventional munition used by ground and air forces, including projectiles, mines, grenades, bombs, pyrotechnics, rockets, fuzes, and bulk explosives. It also served as a troop training facility. SEAD was closed as part of the 1995 BRAC round.

During the CTT inventory, 20 CTT ranges and 3 UXO-DMM-MC sites were identified on SEAD BRAC property. The estimated total acreage of the CTT ranges and UXO-DMM-MC sites is:

- Closed: 3,033.9 acres
- Transferring: 0 acres
- Transferred: 220.8 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 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, which is reported as a number from 1 [high explosives (HE) safety risk] to 5 (negligible explosives safety risk). 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 SEAD are summarized in Table ES-1.

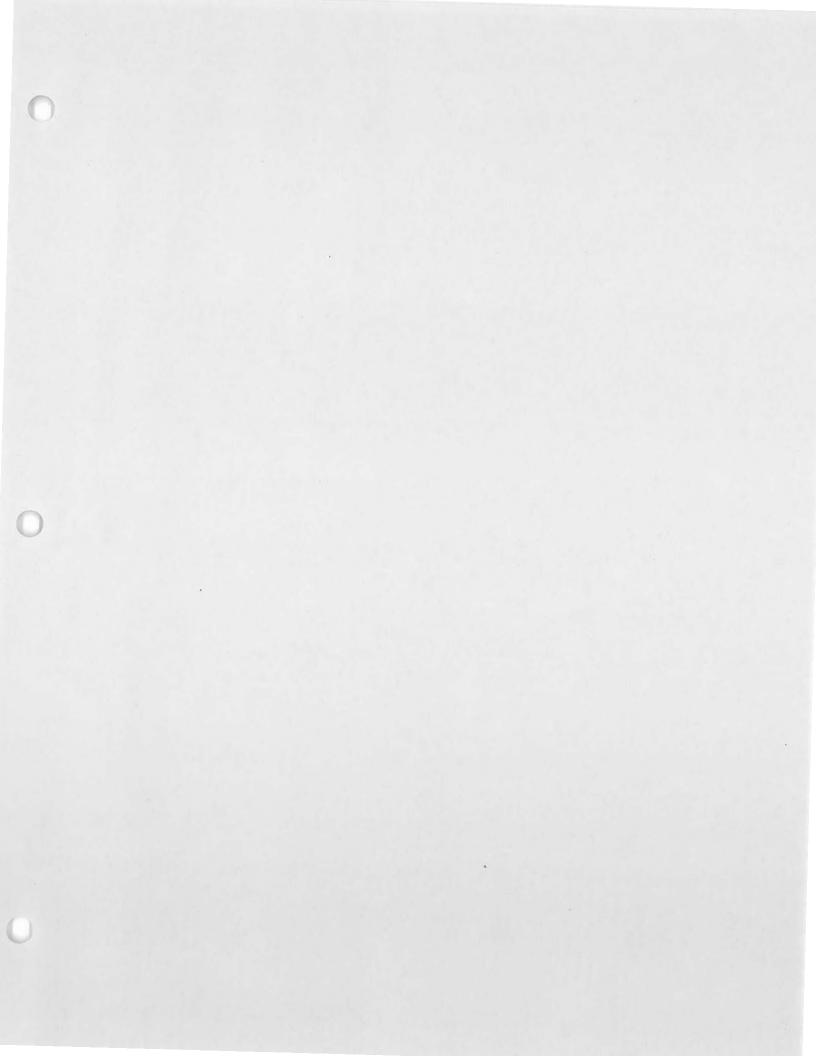
Installation	Range or Site Name	Classifi- cation	Total Area (Acres)	Munitions Type(s)	Munitions Constituents	RAC Score	DERP Eligibility
SEAD	40mm Grenade Range XD	Transferred	21.8	Small arms ammunition	Unknown	5	MR
SEAD	Abandoned Deactivation Furnace	Closed	5.0	Small arms ammunition	Unknown	3	IR
SEAD	Abandoned Powder Burn Area	Closed	1.2	Propellants	Unknown	5	IR
SEAD	Bazooka Range	Closed	32.5	Ground rockets, practice; small arms ammunition	Unknown	2	IR
SEAD	Demolition Range	Closed	40.1	Grenades, artillery shells, pyrotechnics, small arms ammunition; demolition materials	Unknown	1	MR
SEAD	EOD Range 1	Closed	193.6	Grenades, artillery shells, pyrotechnics, small arms ammunition; demolition materials	Unknown	1	IR
SEAD	EOD Range 2	Closed	5.3	Grenades, artillery shells, pyrotechnics, small arms ammunition; demolition materials	Unknown	1	MR
SEAD	EOD Range 3	Closed		Grenades, artillery shells, pyrotechnics, small arms ammunition; demolition materials	Unknown	1	MR

Table ES-1: CTT Range and Site Details

Installation	Range or Site Name	Classifi- cation	Total Area (Acres)	Munitions Type(s)	Munitions Constituents	RAC Score	DERP Eligibility
SEAD	Existing Deactivation Furnace	Closed	5.0	Small arms ammunition	Unknown	3	IR
SEAD	Function Test Range XD	Transferred	15.1	Smail arms ammunition	Unknown	5	IR
SEAD	LTA-1XD	Transferred	8.2	Small arms ammunition (live and blanks), pyrotechnics	Unknown	4	MR
SEAD	LTA-2 (III)	Closed	319.9	Small arms ammunition (live and blanks), pyrotechnics	Unknown	4	MR
SEAD	LTA-3 (II)	Closed	151.0	Small arms ammunition (live and blanks), pyrotechnics	Unknown	4	MR
SEAD	LTA-4 (I)	Closed	906.7	Small arms ammunition (live and blanks), pyrotechnics	Unknown	4	MR
SEAD	LTA-4 XD	Transferred	172.0	Small arms ammunition (live and blanks), pyrotechnics	Unknown	4	MR
SEAD	LTA-5	Closed	48.4 «	Small arms ammunition (live and blanks), pyrotechnics	Unknown	4	MR
SEAD	LTA-6	Closed	380.3	Small arms ammunition (live and blanks), pyrotechnics	Unknown	4	MR
SEAD	LTA-7	Closed		Small arms ammunition (live and blanks), pyrotechnics	Unknown	4	MR
EAD	LTA-IV	Closed		Smail arms ammunition (live and blanks), pyrotechnics	Unknown	4	MR
l	Dpen Burn/Open Detonation Brounds	Closed		Grenades, artillery shells, pyrotechnics, small arms ammunition; demolition materials	Unknown	1	IR
0	Rifle Grenade Range	Closed	49.8	Rifle grenades	Unknown	2	MR
	Sampson Rifle Range	Closed		Small arms ammunition	Unknown	5	MR

U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

Installation	Range or Site Name	Classifi- cation	Totai Area (Acres)	Munitions Type(s)	Munitions Constituents	RAC Score	DERP Eligibility
SEAD	Sampson Rifle Range XD1	Transferred	3.7	Small arms ammunition	Unknown	5	MR



A. INTRODUCTION

The U.S. Army is in the process of inventorying all of its past and current 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 definitions of a military range. The third phase involves an inventory of closed, transferring, and transferred (CTT) ranges and unexploded ordnance, discarded military munitions, and/or munitions constituents (UXO-DMM-MC) sites. This report documents the results of the CTT inventory for SEAD Base Realignment and Closure (BRAC) and non-Formerly Used Defense Sites (FUDS) transferred property located in Romulus, New York.

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 SEAD 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 longterm needs required a more detailed inventory of its 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) ranges, while Phase 3 is slightly broader and covers all CTT ranges and UXO-DMM-MC sites.

No Phase 2 inventory was performed for SEAD because no A/I ranges are reported to exist at the facility. The installation has been included under 1995 BRAC, and all ranges are in closed, transferring, or transferred status.

This CTT inventory is a comprehensive inventory of both CTT military ranges and UXO-DMM-MC sites. All locations 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, operating storage or manufacturing facilities, 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. 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 on 19 and 25 September 2001. Follow-up coordination occurred by e-mail on several occasions in October 2001. The site visit was conducted on 16 November 2001. While on-site, the CTT inventory team reviewed historical records and interviewed appropriate installation personnel.

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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 SEAD BRAC and non-FUDS transferred 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, SEAD. Although the data presented in this report are believed to be accurate, they have not been verified by inspection or field sampling.

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 AEC Project Manager for BRAC installations is Mr. Glen Boldt.

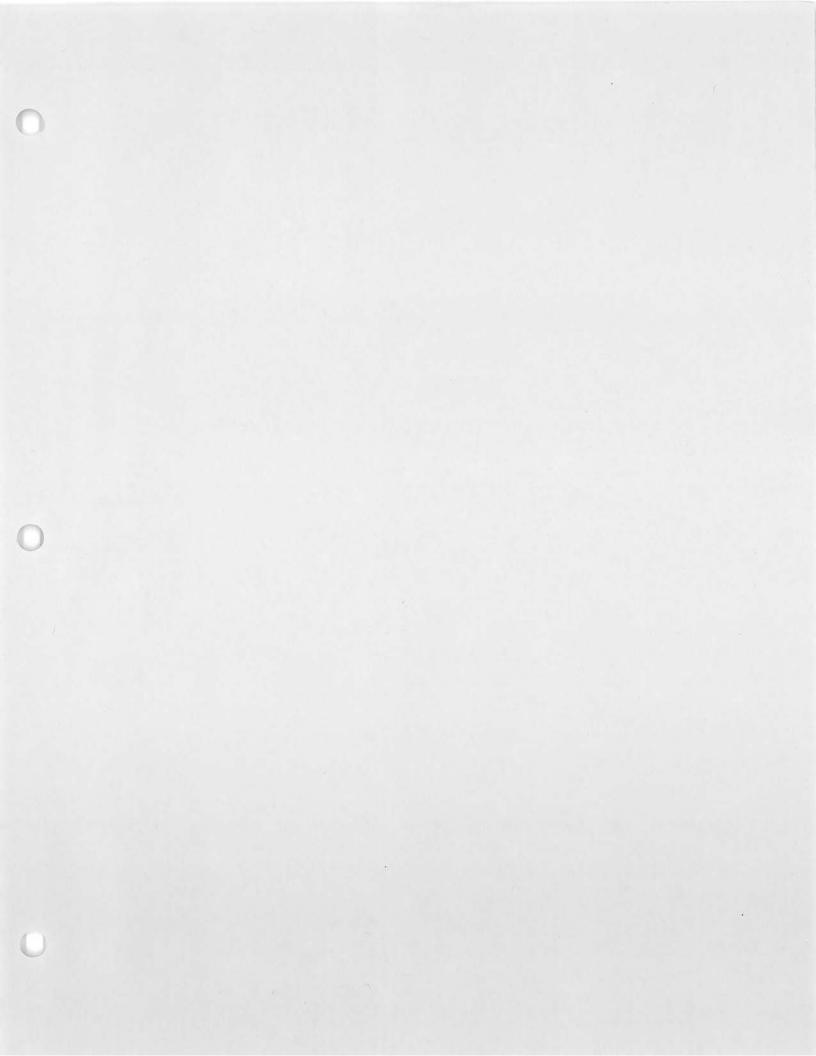
URS Group, Inc. (URS) is one executing organization for the CTT inventory at BRAC installations and properties and is responsible for conducting the record searches;

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 SEAD. The data collection team leader for the SEAD CTT inventory is Mr. Christopher Wieland.

SEAD offices and personnel were contacted and interviewed as part of the CTT inventory. The SEAD primary point of contact for the CTT inventory was Mr. Steve Absolom. Mr. Tom Grasek also provided important information. Mr. Absolom's address is:

Seneca Army Depot 5786 State Route 96 Romulus, NY 14541-5001 (607) 869-1309





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, 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

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 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, or other military munitions, including explosive and nonexplosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions.

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 has 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 ranges and UXO-DMM-MC sites associated with SEAD. Specific requirements included (1) mapping the CTT 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

An individual 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 sites on SEAD BRAC and non-FUDS transferred property.

ARID Data Requirements

The CTT inventory data are driven by the requirements of ARID. The ARID Upload Instructions (19 September 2002) 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

risk) to 5 (negligible explosives safety risk). 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.

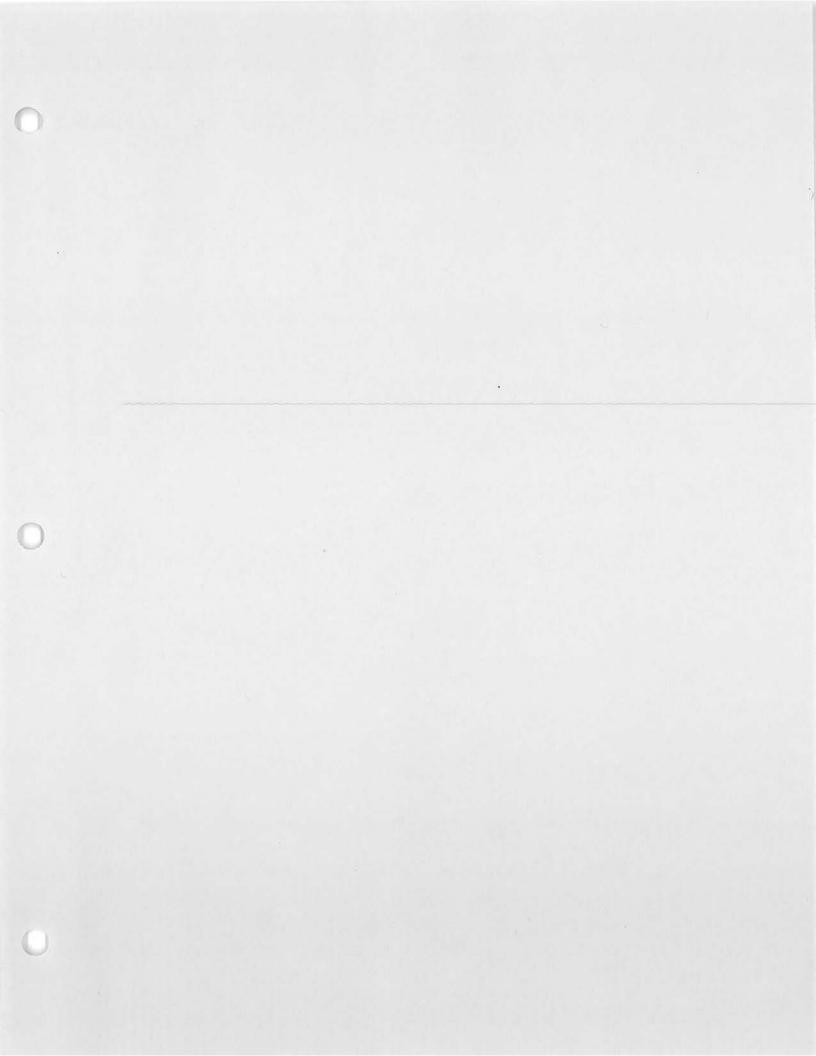
DERP Eligibility Determination

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.





C. INSTALLATION SUMMARY

This section provides a brief summary of the history of SEAD and a summary of the data collection portion of the CTT inventory, including the types of records reviewed and offices contacted.

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Installation Overview and Description

The former SEAD [Federal Facility Identification (FFID): NY213820803] is a 10,622.8-acre facility located on the eastern shore of Seneca Lake at Romulus, Seneca County, New York. It is surrounded primarily by agricultural land, with the communities of Varick, New York to the north and Romulus, New York to the east. The U.S. Army purchased the property in 1941 for use as a munitions storage facility during Word War II. Excess munitions were returned from overseas for storage, maintenance, and demilitarization after the war ended. Operations at the installation from 1945 until closure in 1995 included receipt, storage, and issuance of munitions; munitions maintenance, testing, and service; and explosive ordnance disposal (EOD) training, troop training, and medical services. During the war, SEAD operated a branch prisoner of war camp. SEAD also housed the National Guard and Army Reserve, U.S. Coast Guard (USCG) (Loran C Transmitting Station), and a Medical and Dental Operations Unit. The installation was selected for BRAC in 1995, and formally ceased operations in July 2000.

Munitions handled at SEAD have included HE aerial bombs up to 1,000 lb.; HE, smoke, and white phosphorus (WP) artillery shells (75mm to 155 mm), small and medium caliber solid and tracer ammunition; practice, smoke, tear gas, and HE hand and rifle grenades; antipersonnel and anti-tank mines [high explosives (HE)]; ground rockets; fuzes; pyrotechnics; and bulk explosives, such as TNT, RDX, and tetryl. In addition, SEAD stored special weapons in bunkers in the northern part of the installation.

The installation has been undergoing environmental investigation and remediation, including UXO-DMM-MC sites. Sampling of selected 100 by 100-ft grids has been conducted over parts of the installation to identify areas containing UXO. Remediation activities are currently being conducted on lands transferred to the New York Department of Corrections (NYDOC).

SEAD had 20 ranges, including a 40mm grenade range, rifle range, 3.5-in. rocket range, grenade ranges, a function test range, maneuver/pyrotechnic ranges, and small arms ranges. The safety fan for the Sampson Rifle Range extended beyond the installation boundary. By definition, the area beyond the boundary is considered to be transferred range. Additionally, SEAD has three UXO-DMM-MC sites.

Overlapping range areas were counted only once in acreage totals. For example, only the portion of the Northeast Troop Training Complex that does not fall under EOD Ranges 2 and 3 and the Northwest Training Range [Local Training Area

(LTA)-7] that does not fall under the EOD Ranges are separately counted toward range acreage totals.

Contractor Team Composition

The CTT inventory team for SEAD BRAC property was represented by URS. The CTT inventory team leader for SEAD was Mr. Christopher Wieland. Team members included Mr. Jusbyn Lockard, Ms. Melanie White, Mr. Brent Collier, and Mrs. Linda Leonard.

Installation Points of Contact

The primary CTT inventory point of contact for SEAD was Mr. Steve Absolom, BRAC Environmental Coordinator, Organizational Support Command. Mr. Absolom's address is:

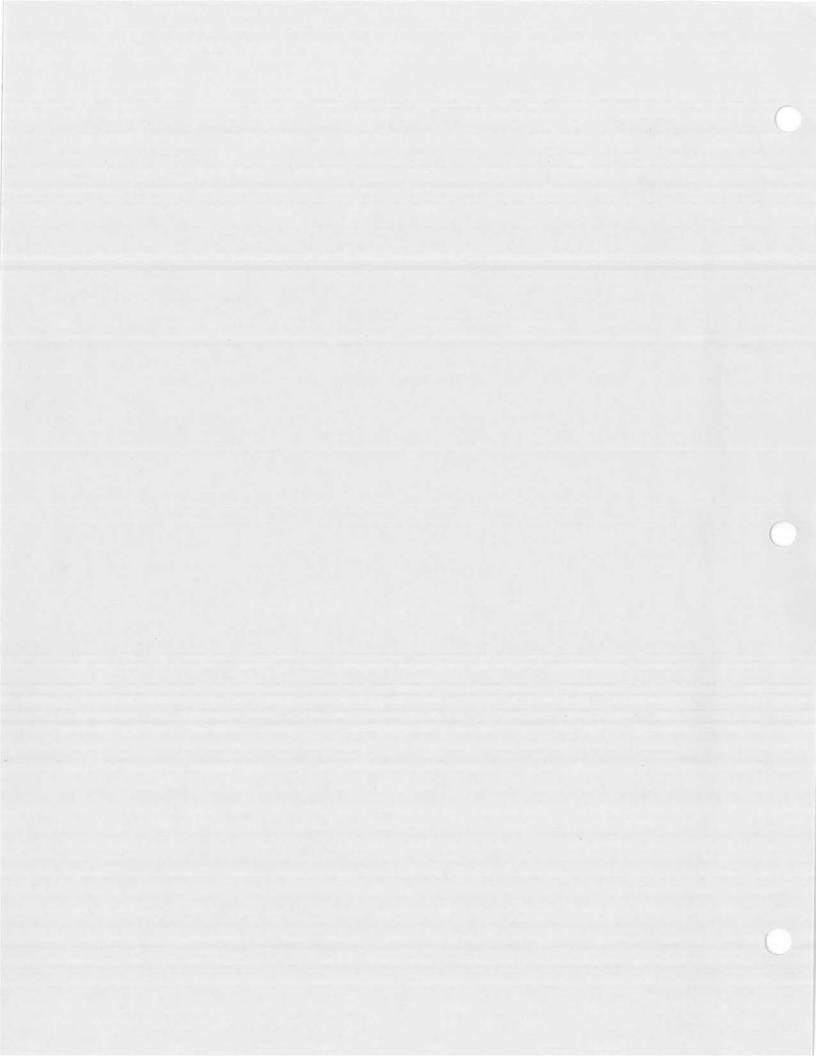
Seneca Army Depot 5786 State Route 96 Romulus, NY 14541-5001 (607) 869-1309

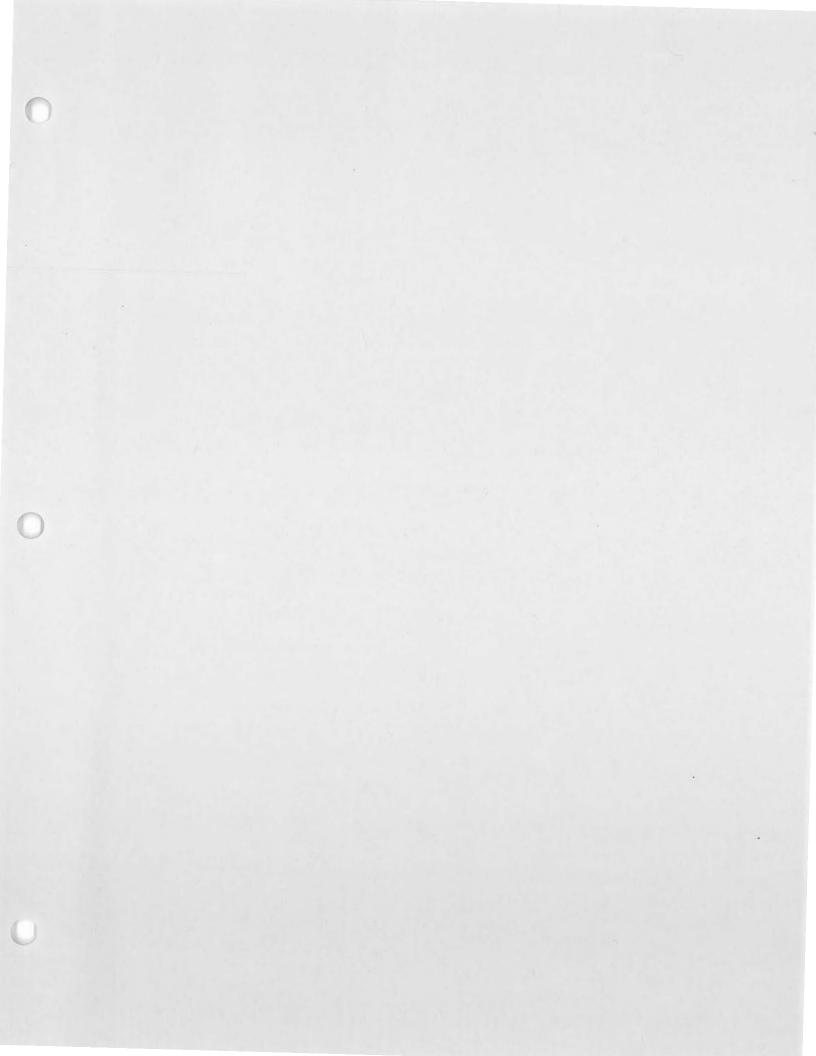
Nature of Data Collection and Coordination

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

Summary of Critical Data Sources

The Archives Search Report (ASR) for this <u>site and</u> the installation point of contact both reported that several threatened and endangered species are known to exist within SEAD. 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 SEAD. The IRP has numerous sites currently under investigation and/or restoration at SEAD.





D. INSTALLATION CTT RANGE AND SITE DATA

This section details the CTT ranges and UXO-DMM-MC sites on or associated with SEAD. It includes a summary of the total range and site area in acres, a summary of each individual CTT range and, 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 range and site area at SEAD:

CTT Range and Site Area: 3,254.7 acres

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

Installation	Range or Site Name	Ownership	CTT Acreage
SEAD	40mm Grenade Range XD	State Agency (NYDOC)	21.8
SEAD	Abandoned Deactivation Furnace	Federal Agency (DoD)	5.0
SEAD	Abandoned Powder Burn Area	Federal Agency (DoD)	1.2
SEAD	Bazooka Range	Federal Agency (DoD)	32.5
SEAD	Demolition Range	Federal Agency (DoD)	40.1
SEAD	EOD Range 1	Federal Agency (DoD)	193.6
SEAD	EOD Range 2	Federal Agency (DoD)	5.3
SEAD	EOD Range 3	Federal Agency (DoD)	0.4
SEAD	Existing Deactivation Furnace	Federal Agency (DoD)	5.0
SEAD	Function Test Range XD	State Agency (NYDOC)	15.1
SEAD	LTA-1 XD	State Agency (NYDOC)	8.2
SEAD	LTA-2 (III)	Federal Agency (DoD)	319.9
SEAD	LTA-3 (II)	Federal Agency (DoD)	151.0
SEAD	LTA-4 (I)	Federal Agency (DoD)	906.7
SEAD	LTA-4 XD	State Agency (NYDOC)	172.0
SEAD	LTA-5	Federal Agency (DoD)	48.4
SEAD	LTA-6	Federal Agency (DoD)	380.3
SEAD	LTA-7	Federal Agency (DoD)	183.0
SEAD	LTA-IV	Federal Agency (DoD)	188.0
EAD	Open Burn/Open Detonation Grounds	Federal Agency (DoD)	364.3
EAD	Rifle Grenade Range	Federal Agency (DoD)	49.8

Table D-1: Ownership Summary Table

Installation	Range or Site Name	Ownership	CTT Acreage
SEAD	Sampson Rifle Range	Federal Agency (DoD)	159.4
SEAD	Sampson Rifle Range XD1	Private Sector	3.7

CTT Range and Site Summaries

Below are summaries for the individual CTT ranges and UXO-DMM-MC sites inventoried on SEAD. 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.

This CTT inventory identified 20 CTT ranges and 3 UXO-DMM-MC sites on SEAD BRAC property. One range safety fan extends off base property, and six other ranges or parts of ranges have been transferred. All transferred portions of ranges are, for the purpose of the inventory, counted as separate ranges. Range locations are depicted on Figure 1 (Section E). Information used in these descriptions was obtained from the sources listed in Section I.

40mm Grenade Range XD (DSERTS SEAD-118) – This 21.8-acre transferred range is located within the current boundaries of the State Prison, on the south end of the base. It is adjacent to the former Function Test Range (SEAD-44) and was with LTA-4 (I). Numerous intact and fragmented M385 (practice) and M382 (spotting charge) grenades, as well as fuzes, were observed on the surface of this area. The Army retains access rights in order to complete remedial actions (RAs). Remediation of this range is being conducted at this time.

Abandoned Deactivation Furnace 16 (DSERTS SEAD-16) – This closed 5.0-acre site and its companion site, SEAD-17, are nominally exempt from the range/site inventory, but are included here because of the large amount of munitions debris scattered over the surrounding area. SEAD-16 (Building S311) is located on the eastern side of the munitions storage area, northwest of the main housing area. This furnace (Building S311) was built in 1943 and used to demilitarize small arms ammunition until 1961, when it was replaced by a new facility (SEAD-17). The Engineering Evaluation/Cost Analysis (EE/CA) Report (Parsons 2001) recommends that this area be cleared to a depth of 6 in., since the munitions debris is confined to the surface.

Abandoned Powder Burn Area (DSERTS SEAD-24) – Located on the western portion of the base, this closed 1.2-acre site is found on a number of installation maps. The site is equipped with water pipes and a drain, but there is no information available about the materials that may have been burned here. The ASR noted that no ordnance and explosives (OE) was found and recommended no further action for this site.

Bazooka Range (DSERTS SEAD-46) – This 32.5-acre closed range is within LTA-2, based on the map *Seneca Army Depot Activity Current Site Identification Operable Units Site Layout as of 15 June 2001*. Documentation found in the ASR indicates this range was used for the firing of small arms munitions, including tracers and blanks. A 3.5-in. rocket was found on this range. This range is closed at this time, and will be transferred to the state as a conservation/recreation area.

Demolition Range (DSERTS SEAD-57) – This closed range, located in the northwestern section of the installation, was used as an EOD Range. It covers 40.1 acres. Documentation was found in the ASR stating that small arms ammunition and flares were destroyed at this location. This range is closed and will be transferred to two different groups. The northern portion will eventually be transferred to the state as a conservation/recreation area. The southern portion is expected to transfer to the White Deer-Corporation at an undetermined date.

EOD Range 1 (DSERTS SEAD-57) – EOD Range 1 was used from 1941 until installation closure in 1995. The range was used for open detonation (OD) of munitions and EOD training. The range occupies about 194 acres and has a 6 ft high, 30 ft diameter earthen berm. The safety radius for this site is 1,800 ft. The berm first appears in air photos from 1978 (Parsons 2001). Additionally, shot holes have been found outside the berm along access roads. The ASR noted that the remnants of numerous flares were found in the area, and the EE/CA (Parsons 2001) found 20mm and 105mm projectiles and a live fragmentation grenade.

EOD Range 2 (DSERTS SEAD-118) – EOD Range 2 is a closed 5.3-acre range located along the northeastern portion of the base within the LTA. The ASR reported that explosive devices were used in this area, and non-explosive metal projectiles were thrown into the nearby Duck Pond. An EE/CA investigation was not completed due to the heavy brush cover over the area, but the portion that was completed identified one UXO item and six munitions-related geophysical anomalies at the site. EOD Range 2 has therefore been recommended (Parsons 2001) for clearance to a depth of 6 in. to removed near-surface munitions debris. This site is expected to transfer into the private sector at a yet to be determined date.

EOD Range 3 (DSERTS SEAD-118) – This closed 0.4-acre range is adjacent to the Bazooka Range and within LTA-2. The site has a roughly 150 ft diameter berm that is open to the south and contained little vegetation at the time of the ASR. An EE/CA investigation performed by Parsons (2001) identified 13 munitions-related geophysical anomalies, none of which was UXO. They included practice rifle grenades, fuze lighter, and a slap flare. Inspection by ASR team members and contractor personnel indicates that the area may not have been used for EOD operations. The ASR speculated that these items may be related to the nearby

Bazooka Range rather than EOD at the site. The EE/CA recommended munitions clearance to the depth of instrument detection for this site.

Existing Deactivation Furnace 17 (DSERTS SEAD-17) – SEAD-17 was active from 1962 to 1989. It is located about 0.5 miles southwest of SEAD-16 and served the same purpose. The 5.0-acre area around SEAD-17 is, like SEAD-16, littered with OE debris. The EE/CA Report (Parsons 2001) recommends that this area be cleared to a depth of 6 in., since the munitions debris is confined to the surface.

The Existing Deactivation Furnace was placed under Resource Conservation and Recovery Act (RCRA) interim status in about 1984, and a Part B permit application was submitted to the state. However, the permit had not been issued at the time SEAD closed and the furnace ceased operation in 2000. The site is being cleaned up to RCRA standards under the aegis of the IRP. The small arms munitions and debris on surrounding land areas is a pre-RCRA legacy. This site is included in this inventory because site contamination is from legacy operations. No final permit was issued and the cleanup is being carried out under the IRP.

Function Test Range XD (DSERTS SEAD-44) – This transferred range occupies 15.1 acres in the parcel that was transferred to the NYDOC. The area was used for testing of 3.5-in. rocket motors and may have been used to function test fuzes. Various UXO and OE scrap were recovered. Remains of 40mm grenades and spent small arms were observed near the test area along the road. Additionally, there are two 15 by 5-ft pits near the Function Test Range that may have been used for open burn (OB), but no UXO was observed by the ASR team. The EE/CA Report (Parsons 2001) recommended that this site be cleared to instrument detection depth.

Open Burn/Open Detonation Grounds (DSERTS SEAD-23 and SEAD-45) – The OB/OD Grounds are two adjacent sites in the northwest corner of SEAD. Their DSERTS numbers are SEAD-23 and SEAD-45, respectively. The OD Grounds are also covered by SEAD-115 for RCRA actions taken at the site. The OB Grounds consist of eight U-shaped earthen berms used to contain fire and debris during OBs. There may also have been two pads without berms immediately north of the bermed sites. The safety radius for the OB Grounds is 1,800 ft. The USACE ASR team observed numerous remnants of munitions on the ground throughout this area.

The OD Grounds are slightly north of the OB Grounds. This site occupies an open area of roughly 60 acres with a bermed detonation area at the center. The safety radius is 1,800 ft. Separate inspections by USACE and Parsons-Engineering Science, Inc. personnel in 1999 identified abundant ordnance and explosives (OE) material in the area. This site covers 364.3 acres. This figure represents the total of non-overlapping areas for safety circles. Safety circles are shown on the map in Tab E.

Two other sites, the Explosive Scrap Furnace and the Fuze (or Detonator) Destruction Furnace, are also located in this area, but are not within the scope of this inventory. No UXO or DMM is known to exist at these sites.

Items found in this area by an EE/CA investigation include live .50 cal., 20mm, 37mm, 57mm, 75mm, 81mm mortar, 90mm, and 105mm shells, some of which contained HE. One live 105mm shell contained WP. An EE/CA (Parsons 2001) conducted for this and other areas recommended that the OB/OD Grounds be cleared by mechanical sorting and sifting to remove UXO and munitions debris.

The OD Grounds were placed under RCRA interim status in about 1984. A burn pan for propellants was added later. A RCRA Part B permit application was submitted, but was still pending when SEAD ceased operations in 2000. The UXO and munitions debris in the OD Grounds is largely a legacy of EOD operations from 1942 until 1984. The cleanup of this area is being completed under both the IRP (SEAD-45) and RCRA (SEAD-115). The OD Grounds have been included in this inventory because of the legacy UXO contamination. No final RCRA permit was ever issued and the cleanup is being completed mainly under the IRP.

Rifle Grenade Range (no DSERTS number) – The closed Rifle Grenade Range is a 49.8-acre rectangular area located on the west side on SEAD near the Demolition Range and within LTA-7. This range was used for an undetermined period for rifle grenade and 40mm grenade training, and contains mannequins and vehicles used as targets. Intact 35mm subcaliber munitions containing HE, M385 grenades (practice only), and 40mm grenades have been found on this range. One fragmentation grenade was also found here, as was a fuzed M83 fragmentation bomb. The EE/CA report (Parsons 2001) recommends that this area be cleared to the instrument detection depth.

Sampson Rifle Range (no DSERTS number) – Also called Range 114, this closed range extends across much of the southern end of the base. This range was not mentioned in the ASR, but was found on range maps during the range inventory site visit (*Seneca Army Depot, General Site and Building Plan, I-70*, August 29, 1984, and *Detail Site Plan, Surface Danger Zone at Small Arms Firing Range and Riot Gun Familiarization Firing Range*, August 3, 1973). The maps show the firing fan oriented in slightly different directions. One firing fan lies over the current federal prison (*General Site and Building Plan,* August 29, 1984). Another map shows the fan along the border of the prison (*Surface Danger Zone at Small Arms Firing Range and Riot Gun Familiarization Firing Range*, August 3, 1973). This difference does not appear to be related to the prison, since the range ceased operation before the prison was constructed. The difference in range orientation may reflect changes in the range, weapons used, or mission requirements.

The area of the range, as accounted for in ARID, is 159.4 acres. Acreage overlapped by LTA-4 was taken into account and was not double-counted.

Sampson Rifle Range XD1 (no DSERTS number) – This 3.7-acre area is located on railroad property outside the southwest boundary of the base, and lies under part of the Sampson Rifle Range fan. This area was never owned, leased, or controlled by the Army, and is therefore considered transferred land.

Training and Maneuver Areas

SEAD had eight separate training and maneuver areas during its history. Troop training appears to be a late development, as the first map showing training areas is dated May 1985. This map showed only three unnamed areas, corresponding approximately to LTAs 4, 5, and 7, described below. A map dated 14 January 1988 shows four LTAs, numbered I through IV. This map shows LTAs I, II, and III in the same general areas as LTAs 2, 3, and 4. LTA-IV was outside the main installation. Finally, a map dated 6 January 1989 shows seven LTAs, numbered 1 through 7. Because these were inclusive of most of the training areas from the 1985 and 1988 maps, they are used as identifiers for this inventory. Roman numerals are added in parentheses to indicate numbering changes between the 1988 and 1989 maps. The map in Section E of this report represents an areal composite of the three known generations of training areas.

The munitions used at SEAD training and maneuver areas are not documented. Common Army practice in training areas was to use blank small arms ammunition; practice, flash, and smoke grenades; and pyrotechnics, such as flares.

None of the training and maneuver areas has been independently addressed by the IRP, and none have been assigned DSERTS numbers.

LTA-1 XD (no DSERTS number) – This transferred range comprises 8.2 acres within the transferred area at the north end of SEAD. A 1988 map indicates that there was a hard-stand (permanent) bivouac site here.

LTA-2 (III) (no DSERTS number) – This closed 319.9-acre range is located on the east side of SEAD, and includes the Bazooka Range, EOD Range 2, and EOD Range 3. One helicopter landing zone (LZ), LZ-3, was located on the west edge of LTA-2

LTA-3 (II) (no DSERTS number) – LTA-3 is a 151.0-acre closed range in the southeast corner of SEAD, adjacent to the USCG Loran-C Station. This range is expected to be transferred to the USCG as part of the Loran C Station.

LTA-4 (I) (no DSERTS number) – LTA-4 is a 906.7-acre range at the south end of SEAD. The range varied in size and configuration on the 1985, 1988, and 1989 maps. The 1989 map indicates that there was a sizeable buffer zone around the Liquid Propellant Storage Area and the Ammunition Workshop Area. The ASR states that riot control agents were used for training on this range. Four helicopter LZs, LZ-12, LZ-13, LZ-14, and LZ-15, were located on LTA-4. This range is closed

and is expected to transfer to the state to become part of a conservation/recreation area.

A small (2-acre) Pistol Range (DSERTS SEAD-120) was located in the east part of LTA-4. USACE inspectors found spent .38 and .45 caliber bullets in a berm at the site, but did not find any live rounds or UXO. The period of use for this site is unknown. This site has not been remediated.

LTA-4 XD (no DSERTS number) – This 172-acre transferred range has been transferred to the state as a prison site. Remediation of this range is being conducted at this time. A portion of the Sampson Rifle Range fan also covers much of this area. Additionally, LTA-4-XD surrounds the 40mm Grenade Range and the Function Test Range. This area is undergoing remediation as part of the transfer of property to the state. Remediation includes UXO and munitions-related debris.

LTA-5 (no DSERTS number) – This closed 48.4-acre training and maneuver area is located on the west end of Sampson Airfield. It includes the Sampson Rifle Range and the Sampson Reaction Course. This range is closed.

LTA-6 (no DSERTS number) – Sampson Airfield, originally owned by the Navy from 1942 until 1949, then under Air Force control from 1950 to 1957, eventually became part of SEAD in 1958. It was used for an unknown period of time in the late 1980s as LTA-6, but was closed when SEAD ceased operation. The area covers 380.3 acres and was used by the Army as a troop training complex (*Special Facilities Recreation and Training, Sampson Air Force Base*, February 27, 1955). A skeet range is located within LTA-6. The ASR notes that this range was used for military training. The ASR noted that there was blank small arms ammunition observed on the ground near a parking area adjacent to the skeet range.

LTA-7 (no DSERTS number) – This closed 183.0-acre training range is located on the west side of SEAD. It overlies the Rifle Grenade Range and the Demolition Range. In its 1985 configuration, LTA-7 included EOD Range 1, but this area was marked as off-limits in the 1989 map. The 1988 map does not show this area as a training and maneuver range. One helicopter LZ, LZ-5, is located within LTA-7.

LTA-IV (no DSERTS number) – This closed 188.0-acre range is shown only on a map dated 6 January 1988. No further documentation is available for this range. Additionally, the Lake Housing Small Arms Range is within this area. The ASR states that no records were found that indicated that this range was ever active.

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.

Installation	Range or Site Name	Classifi- cation	Total Area for ARID (Acres)	Munitions Type(s)	Munitions Constituents	RAC Score ⁴	Historic Us
SEAD	40mm Grenade Range XD	Transferred	21.8	Small arms	Unknown	5	Rifle grenade
SEAD	Abandoned Deactivation Furnace	Closed	5.0	Small arms	Unknown	3	Other (demi furnace)
SEAD	Abandoned Powder Burn Area	Closed	1.2	Propellants	Unknown	5	OB/OD
SEAD	Bazooka Range	Closed	32.5	Ground rockets, practice; small arms	Unknown	2,	Rifle grenade/anti tank rocket/small arms
SEAD	Demolition Range	Closed	40.1	Grenades, artillery shells, pyrotechnics, small arms; demolition materials	Unknown	1	OB/OD
SEAD	EOD Range 1	Closed	193.6	Grenades, artillery shells, pyrotechnics, small arms; demolition materials	Unknown	1	OB/OD
SEAD	EOD Range 2	Closed		Grenades, artillery shells, pyrotechnics, small arms; demolition materials	Unknown	1	OB/OD
	EOD Range 3	Closed		Grenades, artillery shells, pyrotechnics, small arms; demolition materials	Unknown	1	OB/OD
	Existing Deactivation Furnace	Closed	5.0	Small arms	Unknown	3	Other (demil. furnace)
	Function Test Range XD	Transferred	15.1	Small arms	Unknown	5	Other (OA testing)
EAD I	TA-1 XD	Transferred	á	Small arms (live and blanks), pyrotechnics	Unknown	4	Training/ maneuver area

Table D-2:	CTT	Range	and	Site	Details	Table
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Installation	Range or Site Name	Classifi- cation	Total Area for ARID (Acres)		Munitions Constituents	RAC Score [®]	Historic Use
SEAD	LTA-2 (III)	Closed	319.9	Small arms (live and blanks), pyrotechnics	Unknown	4	Training/ maneuver area
SEAD	LTA-3 (II)	Closed	151.0	Small arms (live and blanks), pyrotechnics	Unknown	4	Training/ maneuver area
SEAD	LTA-4 (I)	Closed	906.7	Small arms (live and blanks), pyrotechnics	Unknown	4	Training/ maneuver area
SEAD	LTA-4 XD	Transferred	172.0	Smail arms (live and blanks), pyrotechnics	Unknown	4	Training/ maneuver area
SEAD	LTA-5	Closed	48.4	Small arms (live and blanks), pyrotechnics	Unknown	4	Training/ maneuver area
SEAD	LTA-6	Closed	380.3	Small arms (live and blanks), pyrotechnics	Unknown	4	Training/ maneuver area
SEAD	LTA-7	Closed		Small arms (live and blanks), pyrotechnics	Unknown	4	Training/ maneuver area
SEAD	LTA-IV	Closed		Small arms (live and blanks), pyrotechnics	Unknown	4	Training/ maneuver area
	Open Burn/Open Detonation Grounds	Closed		Grenades, artillery shells, byrotechnics, small arms; demolition materials	Unknown	1	OB/OD
	Rifle Grenade Range	Closed	49.8 F	Rifle grenades	Unknown	2	Rifle grenade/anti- tank rocket
	Sampson Rifle Range	Closed	159.4 §	Small arms	Unknown	5	Smail arms
F	Sampson Rifle Range (D1	Transferred	3.7 5	Small arms	Unknown	5	Small arms

^aThe 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.

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.

Installation	Range or Site Name	Owner	Current Use	Restrictions	
SEAD	40mm Grenade Range XD	State Agency (NYDOC)	Other (Prison)	None	
SEAD	Abandoned Deactivation Furnace	Federal Agency (DoD)	Undeveloped	None .	
SEAD	Abandoned Powder Burn Area	Federal Agency (DoD)	Undeveloped	None	
SEAD	Bazooka Range	Federal Agency (DoD)	Undeveloped	None	
SEAD	Demolition Range	Federal Agency (DoD)	Undeveloped	Fences, locked gates	
SEAD	EOD Range 1	Federal Agency (DoD)	Undeveloped	None	
SEAD	EOD Range 2	Federal Agency (DoD)	Undeveloped	None	
SEAD	EOD Range 3	Federal Agency (DoD)	Undeveloped	None	
SEAD	Existing Deactivation Furnace	Federal Agency (DoD)	Undeveloped	None	
SEAD	Function Test Range XD	State Agency (NYDOC)	Other (Prison)	None	
SEAD	LTA-1 XD	State Agency (NYDOC)	Other (Prison)	None	
SEAD	LTA-2 (III)	Federal Agency (DoD)	Undeveloped	None	
SEAD	LTA-3 (II)	Federal Agency (DoD)	Undeveloped	None	
SEAD	LTA-4 (I)	Federal Agency (DoD)	Undeveloped	None	
SEAD	LTA-4 XD	State Agency (NYDOC)	Other (Prison)	None	
SEAD	LTA-5	Federal Agency (DoD)	Undeveloped	None	
SEAD	LTA-6	Federal Agency (DoD)	Undeveloped	None	
SEAD	LTA-7	Federal Agency (DoD)	Undeveloped	None	
SEAD	LTA-IV	Federal Agency (DoD)	Undeveloped	None	
	Open Burn/Open Detonation Grounds	Federal Agency (DoD)	Undeveloped	Fences, locked gates	

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

Installation	Range or Site Name	Owner	Current Use	Restrictions
SEAD	Rifle Grenade Range	Federal Agency (DoD)	Undeveloped	None
SEAD	Sampson Rifie Range	Federal Agency (DoD)	Other	None
SEAD	Sampson Rifle Range XD1	Private Sector	Commercial	None

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."

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	Active DSERTS Phase(s)
SEAD	40mm Grenade Range XD	SEAD-118	Y	Y	Ν		RD
SEAD	Abandoned Deactivation Furnace	SEAD-16	Y	N	N	—	RA(C)
SEAD	Abandoned Powder Burn Area	SEAD-24	Y	N	N		RA(C)
SEAD	Bazooka Range	SEAD-46	Ŷ	N	N	—	RD
SEAD	Demofition Range	None	_		-		_
SEAD	EOD Range 1	SEAD-57	Y	N	N	_	RD
SEAD	EOD Range 2	SEAD-118	Y	Y	N	-	RD
SEAD	EOD Range 3	SEAD-118	Y	Y	N	_	RD
SEAD	Existing Deactivation Furnace	SEAD-17	Y	N	N	-	RA(C)
I	Function Test Range XD	SEAD-44	Y	N	N		RI

Table D-4: RMIS Information Table

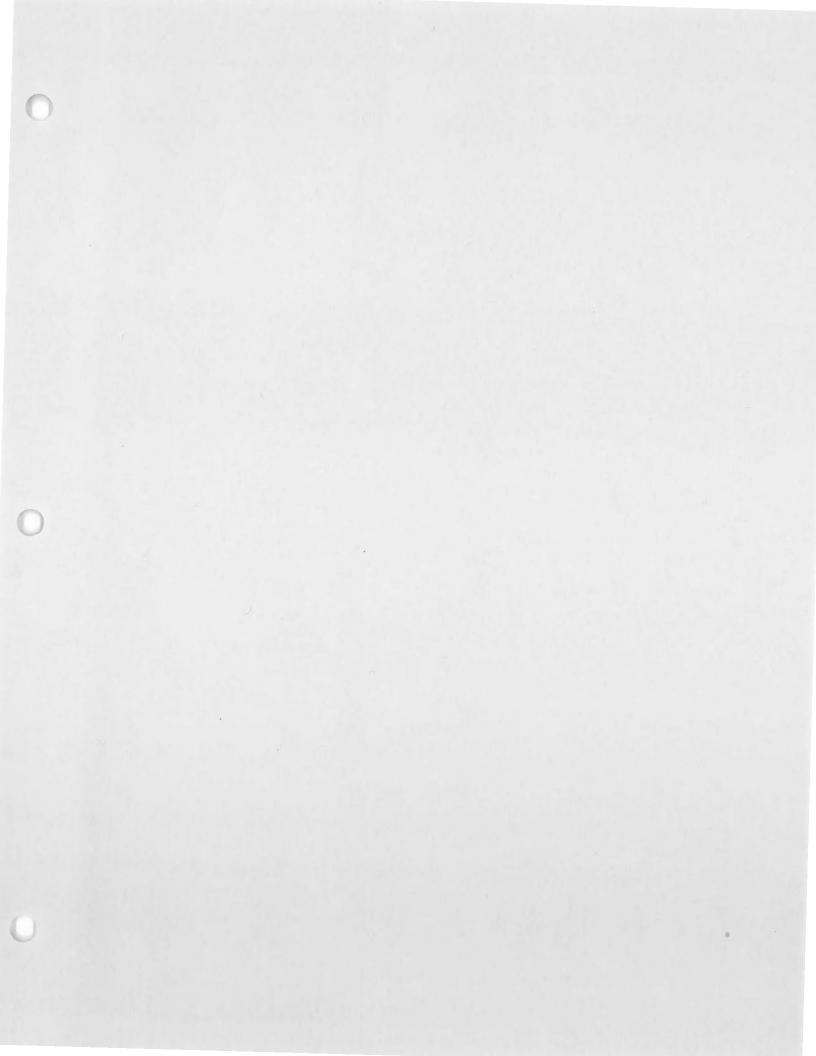
Installation	Range or Site Name	DSERTS Site ID	DSERTS CTC Includes UXO and DMM		DSERTS Response Complete (RC)	DSERTS RC Flag	Active DSERTS Phase(s)
SEAD	LTA-1 XD	None			_		
SEAD	LTA-2 (III)	None			_		
SEAD	LTA-3 (II)	None	—	_	_		
SEAD	LTA-4 (I)	None		—	1		
SEAD	LTA-4 XD	None		_			
SEAD	LTA-5	None	``	_			
SEAD	LTA-6	None		—			—
SEAD	LTA-7	None		_			
SEAD	LTA-IV	None		_	_	,	_
SEAD	Open Burn/Open Detonation Grounds	SEAD-23, SEAD-45 (SEAD-115)	Y	N	N	_	RA(C)
SEAD	Rifle Grenade Range	SEAD-118	Y	Y	N	_	RD
SEAD	Sampson Rifle Range	None		_	—	—	—
	Sampson Rifle Range XD1	None	—	-	_	—	_

Table D-5: DERP Eligibility Table

Installation	Range or Site Name	Range	DERP Eligibility	RMIS Range ID	RMIS Site ID
SEAD	40mm Grenade Range XD	Y	MR	SEAD-001-R	SEAD-001-R-01
SEAD	Abandoned Deactivation Furnace	N	IR	_	—
SEAD	Abandoned Powder Burn Area	Ν	IR	—	_
SEAD	Bazooka Range	Y	IR		
SEAD	Demolition Range	Y	MR	SEAD-002-R	SEAD-002-R-01
SEAD	EOD Range 1	Y	IR		
SEAD	EOD Range 2	Y	MR	SEAD-003-R	SEAD-003-R-01
SEAD	EOD Range 3	Y	MR	SEAD-004-R	SEAD-004-R-01
SEAD	Existing Deactivation Furnace	N	IR	_	
SEAD	Function Test Range XD	Y	IR	_	_

Installation	Range or Site Name	Range	DERP Eligibility	RMIS Range ID	RMIS Site ID
SEAD	LTA-1 XD	Y	MR	SEAD-005-R	SEAD-005-R-01
SEAD	LTA-2 (III)	Y	MR	SEAD-006-R	SEAD-006-R-01
SEAD	LTA-3 (II)	Y	MR	SEAD-007-R	SEAD-007-R-01
SEAD	LTA-4 (I)	Y	MR	SEAD-008-R	SEAD-008-R-01
SEAD	LTA-4 XD	Y	MR	SEAD-009-R	SEAD-009-R-01
SEAD	LTA-5	Y	MR	SEAD-010-R	SEAD-010-R-01
SEAD	LTA-6	Y	MR	SEAD-011-R	SEAD-011-R-01
SEAD	LTA-7	Y	MR	SEAD-012-R	SEAD-012-R-01
SEAD	LTA-IV	Y	MR	SEAD-013-R	SEAD-013-R-01
SEAD	Open Burn/Open Detonation Grounds	Y	IR	_	_
SEAD	Rifle Grenade Range	Y	MR ,	SEAD-014-R	SEAD-014-R-01
SEAD	Sampson Rifle Range	Y	MR	SEAD-015-R	SEAD-015-R-01
SEAD	Sampson Rifle Range XD1	Y	MR	SEAD-016-R	SEAD-016-R-01

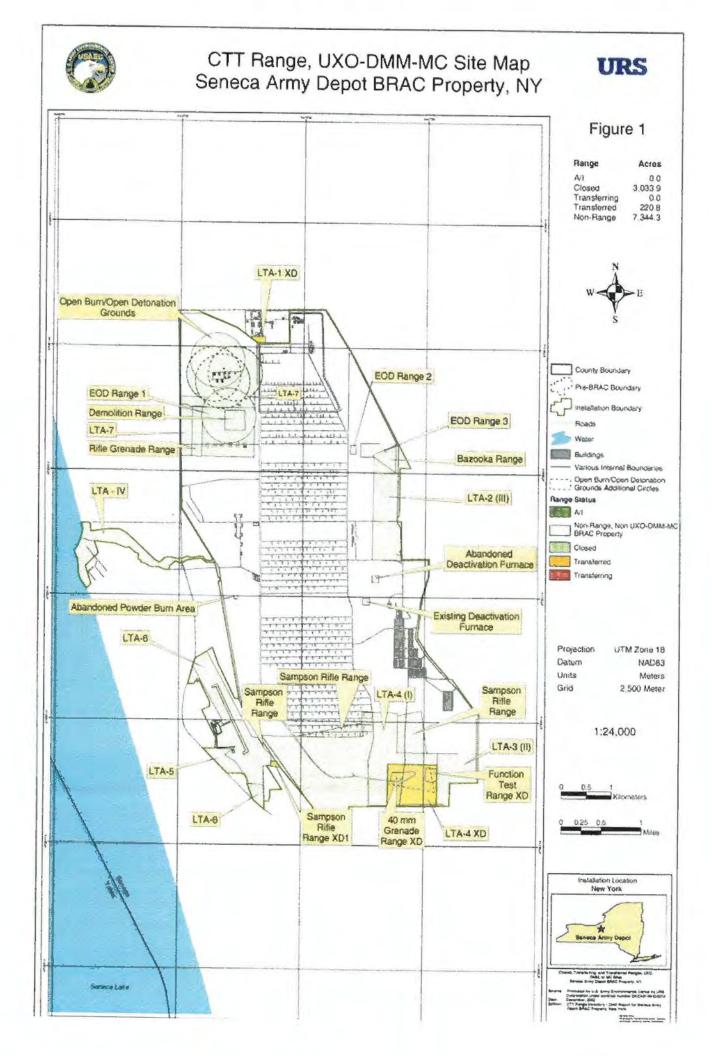




E. CTT RANGE AND SITE MAPS

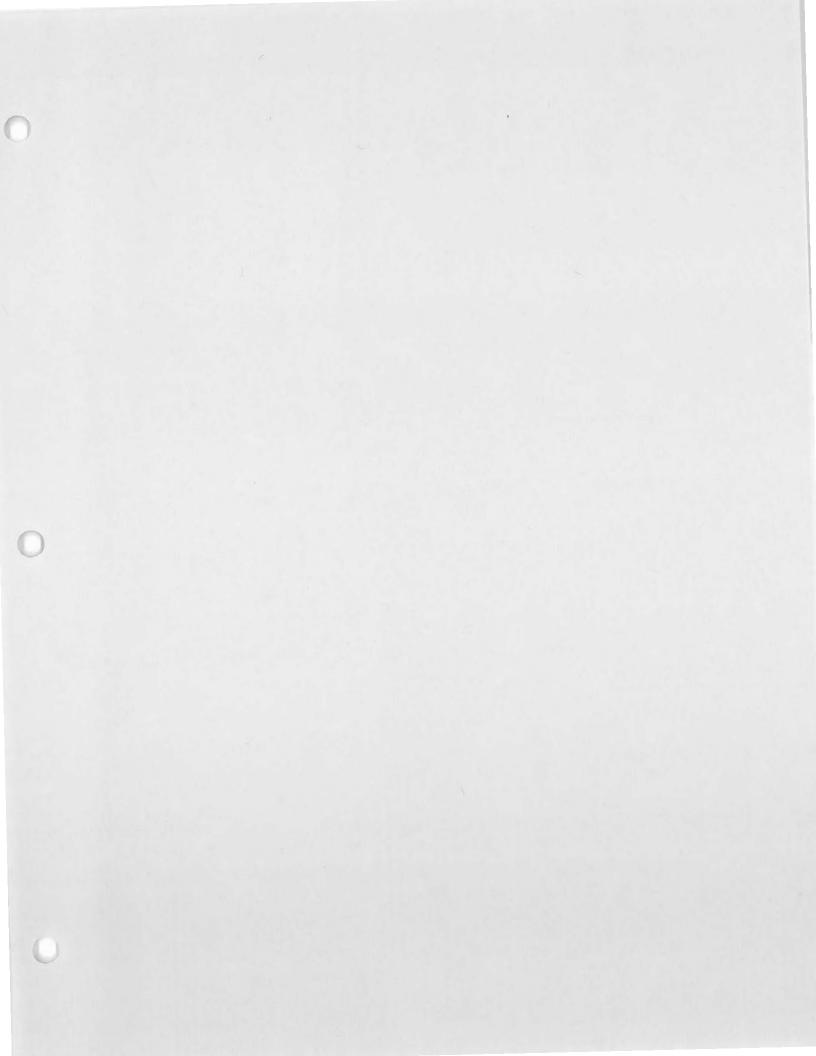
An individual CTT map was generated for the CTT inventory of SEAD BRAC property. The individual CTT map shows all the range and site areas associated with SEAD. An electronic version (.pdf file) of the map will be provided as an upload to ARID in the final report. The individual CTT map for SEAD BRAC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

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F. ARID DATA FILES

This section contains a printout of the ARID data files submitted to AEC for the CTT inventory for SEAD. The files were set up according to the guidelines in the *ARID Upload Instructions* (19 September 2002). 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

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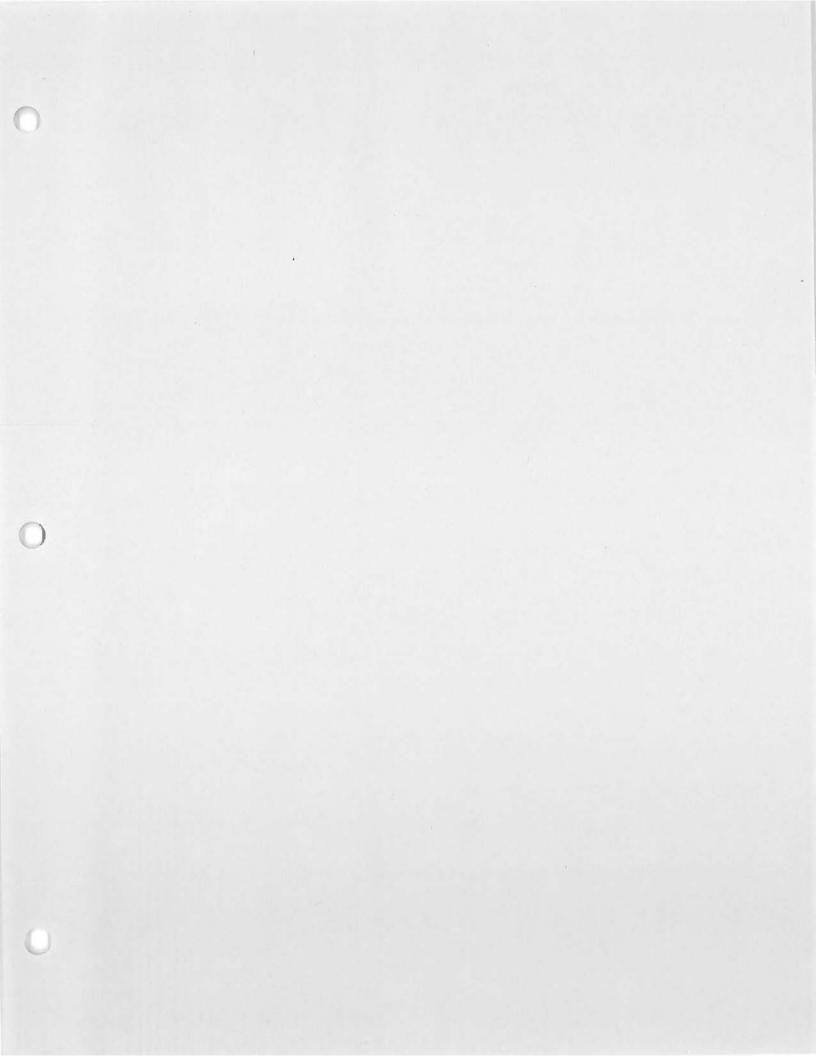
POC Table

INSTALLATION NAME FFID	LAST NAME	FIRST NAME	POC TITLE		
SENECA DEPOT ACTIVITY NY213820830	ABSOLOM	STEVE	BRAC ENVIRONMENTAL COORDINATOR		
POC TYPE: INSTAL		POC ORG: SENECA	ARMY DEPOT		
PHONE		ADDRESS			
PHONE 607-869-1309		SENECA ARMY DE	POT		
DSN 489-5532		5786 STATE ROUTH	E 96		
FAX 607-869-1362		ATTN: S. ABSOLOM			
EMAIL ABSOLOMS@SENECA-HP.ARMY	.MIL	ROMULUS, NY 145	41		
		UNITED STATES			

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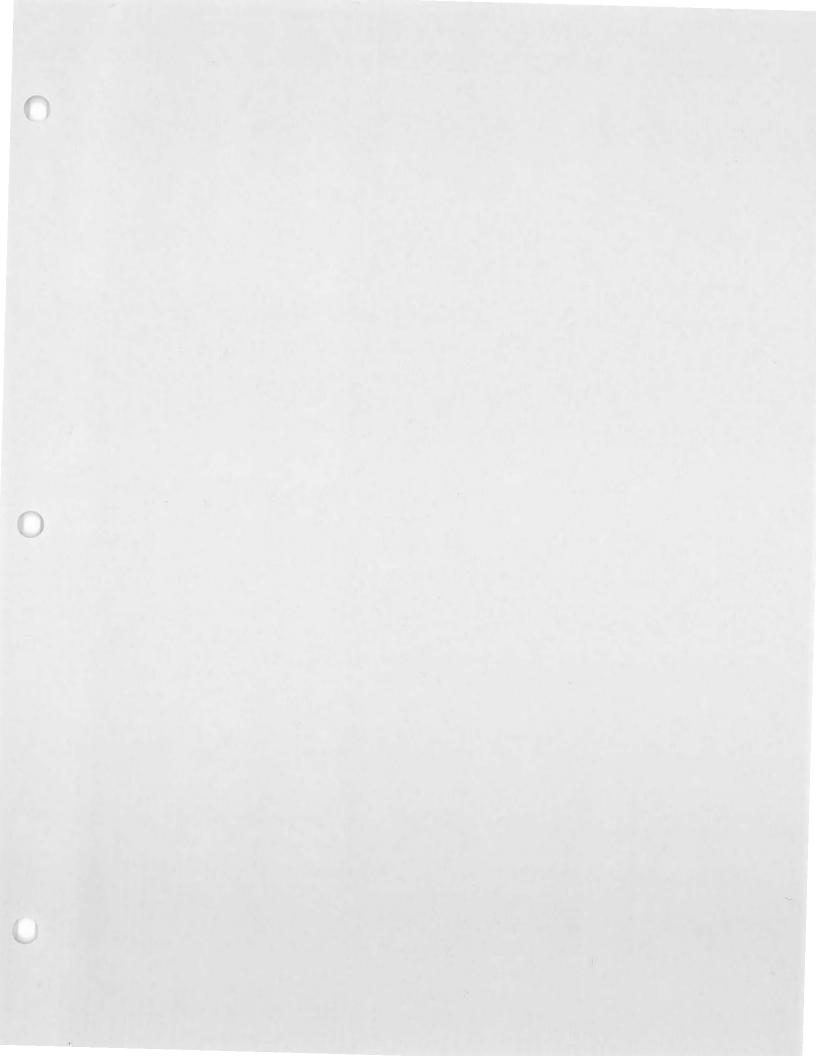


Installation Table									
				PARENT	АЛ	СТТ	BRAC		
INSTALLATION NAME	<u>FFID</u>	MACOM	MSC	INSTALLATION	RANGE	RANGE	ROUND	FLAG	FLAG
SENECA DEPOT ACTIVITY	NY213820830	AMC			N	Y	1995	Ν	N

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Range and Site Table

RMIS RANGE ID: SEAD-001-R

INSTALLATIO	N NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	PROBABILITY SCORE	RAC SCORE
SENECA DEPO	T ACTIVITY	NY213820830	40 MM GRENADE RANGE	XD TRANSFERRE	o v	E	5
RANGE DESCI	RIPTION						
Grenade range n	ear Function Test Pits.	Transferred to NYI	DOC for use as prison site.				
CTT TOTAL A	CRES MMR	ACRES IDENTIF	TIED MMR ACRES S	SUSPECTED M	IMR ACRES	NOT SUSPECTEI)
21.8		0	0			21.8	
UTM ZONE	UTM DATUM	UTM X		ONSTRUCTION DATE	RIP F	C DATE	
18	NAD83	349278	4739503	1/1/1941			
<u>COMMENT</u>							
	nediated - UXO has been	excavated. Awaiting f	inal documentation and approval.		<u> </u>		
	nediated - UXO has been	excavated. Awaiting f	inal documentation and approval.				
Site has been rem		-	inal documentation and approval.		Г <u>ҮРЕ</u>		
		VEGE			TYPE SAND WITH	STONE	
Site has been rem		VEGE	TATION	CLAY		STONE	
Site has been rem	Y	VEGE	TATION	CLAY	SAND WITH	STONE	
TOPOGRAPH FLAT	Y SE 1 OTHER	VEGE	TATION	CLAY/	SAND WITH	STONE	
Site has been rem <u>TOPOGRAPH</u> FLAT CURRENT US	Y SE 1 OTHER SE 2 N/A	VEGE	TATION	CLAY/	SAND WITH	STONE	
Site has been rem TOPOGRAPH FLAT CURRENT US CURRENT US	Y SE 1 OTHER SE 2 N/A	VEGE	TATION	CLAY/ <u>STAR</u> 2001	SAND WITH T YEAR	STONE	
Site has been rem TOPOGRAPH FLAT CURRENT US CURRENT US	Y SE 1 OTHER SE 2 N/A SE 3 N/A	VEGE	TATION GRASS AND FEW SHRUBS	CLAY/ <u>STAR</u> 2001	SAND WITH T YEAR	D YEAR	
Site has been rem TOPOGRAPH FLAT CURRENT US CURRENT US CURRENT US	Y SE 1 OTHER SE 2 N/A SE 3 N/A SE 1 RIFLE GRENA	LOW C	TATION GRASS AND FEW SHRUBS	CLAY/ <u>STAR</u> 2001 <u>STAR</u>	SAND WITH T YEAR	D YEAR	

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Range and Site Table

RMIS RANGE	ID:					SEVERITY 4	PROBABILIT	Y RAC	
INSTALLATION NAME		FFID RANGE/SITE NAME			STATUS	SCORE	SCORE		
		NY213820830	ABANDONED DEAC FURNACE	TIVATION	CLOSED	III	В	3	
RANGE DESC	RIPTION								
Small arms amm	unition deactivation fu	Irnace							
CTT TOTAL A	CRES _MMF	R ACRES IDENTI	TIED MMR AC	RES SUSPEC	TED M	MR ACRES NO	T SUSPECT	D	
5			4		0		0		
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRU	JCTION DATE	RIP RC	DATE		
18	NAD83	348727	4733492		L/1/1943				
COMMENT			:						
TOPOGRAPH	POGRAPHY VEGETATION		SOIL TYPE						
FLAT		BARREN OR LOW GRASS		CLAY/SAND WITH STONE					
					STAR1	T YEAR			
CURRENT US	SE 1 OTHER				1961				
CURRENT US	SE 2 N/A								
CURRENT USE 3	SE 3 N/A								
					STAR	YEAR END	YEAR		
HISTORIC U	SE 1 OTHER				1943	1961			
HISTORIC U									
HISTORIC U	ISE 3 N/A								
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RMIS RANGE ID:

RMIS RANGE I INSTALLATIO	N NAME	FFID	RANGE/SITE NAME	STATUS	SEVERITY	PROBABILITY SCORE	SCORE
SENECA DEPO	ΓΑCTIVITY	NY213820830	ABANDONED POWDER BI AREA	URN CLOSED	III	В	3
RANGE DESCH	RIPTION						
Poorly defined ar	rea on southwest side of	SEAD.					
CTT TOTAL A	CRES MMR A	CRES IDENTIF	TIED MMR ACRES S	USPECTED M	MR ACRES N	OT SUSPECTE)
1.2		0	0			1.2	
UTM ZONE	UTM DATUM	UTM X	UTM Y CO	ONSTRUCTION DATE	RIP R	C DATE	_
18	NAD83	746001	4733090				
10	INAD05	345881	4733090				
COMMENT			4733090				
COMMENT			TATION	SOIL T			
		VEGE			Ype Sand with s	STONE	
COMMENT TOPOGRAPH		VEGE	TATION	SHRUBS CLAY/S		STONE	
COMMENT TOPOGRAPH FLAT	<u>Y</u>	VEGE HEAV	TATION	SHRUBS CLAY/S	SAND WITH S	STONE	
COMMENT TOPOGRAPH FLAT	Y E 1 UNDEVELOPED	VEGE HEAV	TATION	SHRUBS CLAY/S	SAND WITH S	STONE	
COMMENT TOPOGRAPH FLAT CURRENT US	Y E 1 UNDEVELOPED E 2 N/A	VEGE HEAV	TATION	SHRUBS CLAY/S	SAND WITH S	STONE	
COMMENT TOPOGRAPH FLAT CURRENT US CURRENT US	Y E 1 UNDEVELOPED E 2 N/A	VEGE HEAV	TATION	SHRUBS CLAY/S	SAND WITH S		
COMMENT TOPOGRAPH FLAT CURRENT US CURRENT US	Y E 1 UNDEVELOPED E 2 N/A E 3 N/A	VEGE HEAV	TATION	SHRUBS CLAY/S	SAND WITH S		
COMMENT TOPOGRAPH FLAT CURRENT US CURRENT US	Y E 1 UNDEVELOPED E 2 N/A E 3 N/A SE 1 OB/OD	VEGE HEAV	TATION	SHRUBS CLAY/S	SAND WITH S		

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RMIS RANGE ID:

32.5		0		32.5	· 0
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DATE	RIP RC DATE
18	NAD83	348958	4735928	1/1/1941	
COMMENT					

COMMENT

Last use date based on ASR air photo interpretation - may not be exact.

TOPOGRAPHY		VEGETATION	SOIL TYPE	<u> </u>	
FLAT		LOW GRASS AND FEW SHRUBS	CLAY/SAN	D WITH STONE	
			S <u>tart ye</u>	AR	
CURRENT USE 1	UNDEVELOPED		1963		
CURRENT USE 2	N/A				
CURRENT USE 3	N/A				
			START YE	AR END YEAR	
HISTORIC USE 1	RIFLE GRENADE/ANTI	TANK ROCKET	1941	1963	
HISTORIC USE 2	SMALL ARMS		1941	1963	
HISTORIC USE 3	N/A				

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RMIS RANGE ID: SEAD-002-R

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RMIS RANGE ID: SEAD-002-R				SEVERITY	PROBABILIT	Y RAC
INSTALLATION NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	SCORE	SCORE
SENECA DEPOT ACTIVITY	NY213820830	DEMOLITION RANGE	CLOSED	II	В	2
RANGE DESCRIPTION						

Poorly documented OD range in west central SEAD, SE of EOD Range 1.

CTT TOTAL A	CRES MMR	ACRES IDENTIF	IED MMR A	CRES SUSPECTED	MMR ACRES NOT SUSPECTED
40.1		0		40.1	0
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DAT	TERIP RC DATE
18	NAD83	345840	4736643	1/1/1941	
COMMENT					

TOPOGRAPHY	V	EGETATION	SOIL TYPE	
FLAT	F	DREST	CLAY/SAND W	ITH STONE
			START YEAR	
CURRENT USE 1	UNDEVELOPED		1950	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			START YEAR	END YEAR
HISTORIC USE 1	OB/OD		1941	1950
HISTORIC USE 2	TRAINING AREA/MANEUV	ER AREA	1984	1995
HISTORIC USE 3	N/A			

RMIS RANGE ID:

INSTALLATION NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	PROBABILITY SCORE	AC SCORE
SENECA DEPOT ACTIVITY	NY213820830	E.O.D RANGE 1	CLOSED	Ι	В	1
RANGE DESCRIPTION						

CTT TOTAL A	CRES MM	R ACRES ID <u>ENTIFI</u>	ED MMR	ACRES SUSPECTED	MMR ACRES NOT SUSPECTED
193.6		0		193.6	0
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DAT	TE RIP RC DATE
18	NAD83	345692	4736752	1/1/1941	
COMMENT	······			_	

TOPOGRAPHY	VEGETATION	SOIL TYPE	
FLAT	BARREN OR LOW GRASS	CLAY/SAND W	ITH STONE
		START YEAR	
CURRENT USE 1 UNDEVELOPED		1995	
CURRENT USE 2 N/A			
CURRENT USE 3 N/A			
		START YEAR	END YEAR
HISTORIC USE 1 OB/OD		1941	1995
HISTORIC USE 2 N/A			
HISTORIC USE 3 N/A			

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RMIS RANGE ID: SEAD-003-R

INSTALLATIO	ID: SEAD-003- R	FFID	RANGE/SITE NA	MESTATUS	SEVERITY SCORE	PROBABILITY SCORE	RAC SCORE
SENECA DEPO	T ACTIVITY	NY213820830	E.O.D RANGE 2	CLOSED	II	С	3
RANGE DESC	RIPTION						
EOD range 2 is l	located in the northeast	portion of SEAD.					
<u>CTT TOTAL A</u>	CRES MMR	ACRES IDENTIF	IED MMR	A CRES SUSPECTED	MMR ACRES	NOT SUSPECTE	Ð
5.3		0		5.3		0	
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DA	TE <u>RIPR</u>	C DATE	
18	NAD83	348254	4736082	1/1/1941			

TOPOGRAPHY		VEGETATION	SOIL TYPE	
FLAT		HEAVY SHRUBS WITH TREES	CLAY/SAND W	ITH STONE
			START YEAR	
CURRENT USE 1	UNDEVELOPED		1995	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			START YEAR	END YEAR
HISTORIC USE 1	OB/OD		1941	1995
HISTORIC USE 2	N/A			
HISTORIC USE 3	N/A			

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RMIS RANGE ID: SEAD-004-R SEVERITY PROBABILITY RAC SCORE STATUS SCORE SCORE INSTALLATION NAME FFID RANGE/SITE NAME NY213820830 E.O.D RANGE 3 CLOSED Π В 2 SENECA DEPOT ACTIVITY **RANGE DESCRIPTION**

EOD Range 3 is in the northeast part of SEAD near the Bazooka Range.

CTT TOTAL A	CRES M	MR ACRES IDENTIFIE	D MMR	A CRES SUSPECTED	MMR ACRES NOT SUSPECTED
0.4		0		0.4	0
UTM ZONE	UTM DATUM	I UTM X	UTM Y	CONSTRUCTION DAT	TE RIP RC DATE
18	NAD83	348914	4736064	1/1/1941	
COMMENT					

TOPOGRAPHY		VEGETATION	SOIL TYPE	
FLAT		LOW GRASS AND FEW SHRUBS	CLAY/SAND W	TTH STONE
		• 	START YEAR	
CURRENT USE 1	UNDEVELOPED		1995	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			START YEAR	END YEAR
HISTORIC USE 1	OB/OD		1941	1995
HISTORIC USE 2	N/A			
HISTORIC USE 3	N/A			

RMIS RANGE ID:

	N NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	PROBABILITY SCORE	RAC SCORE
SENECA DEPOT	ACTIVITY	NY213820830	EXISTING DEACTIVATION FURNACE	CLOSED	111	В	3
RANGE DESCR	IPTION						
Small arms deacti	ivation furnace.						
<u>CTT TOTAL AC</u>	CRES MMR	A CRES IDENTIE	FIED MMR ACRES SUS	PECTED M	MR ACRES	NOT SUSPECTE)
5		1	4			0	
UTM ZONE	UTM DATUM	UTM X	UTM Y CON	STRUCTION DATE	RIP R	C DATE	
18	NAD83	348538	4733034	1/1/1961			
COMMENT							
							25
TOPOGRAPHY			his site is being remediated under IRP		dards.	permit application w	
		VEGE	his site is being remediated under IRP v	with RCRA clean-up stan	dards.		
TOPOGRAPHY		VEGE	his site is being remediated under IRP	with RCRA clean-up stan SOIL 7 CLAY/	dards.		
TOPOGRAPHY	¥	VEGE	his site is being remediated under IRP	with RCRA clean-up stan SOIL 7 CLAY/	dards. <u> YPE</u> SAND WITH S		
TOPOGRAPHY FLAT	E 1 OTHER	VEGE	his site is being remediated under IRP	with RCRA clean-up stan SOIL 7 CLAY/ STAR	dards. <u> YPE</u> SAND WITH S		
TOPOGRAPHY FLAT CURRENT USE	E 1 OTHER E 2 N/A	VEGE	his site is being remediated under IRP	with RCRA clean-up stan SOIL 7 CLAY/ STAR	dards. <u> YPE</u> SAND WITH S		
TOPOGRAPHY FLAT CURRENT USI	E 1 OTHER E 2 N/A	VEGE	his site is being remediated under IRP	with RCRA clean-up stan SOIL 7 CLAY/ STAR 2000	dards. <u>YPE</u> SAND WITH S <u>FYEAR</u>		
TOPOGRAPHY FLAT CURRENT USI CURRENT USI HISTORIC USI	E 1 OTHER E 2 N/A E 3 N/A E 1 OTHER	VEGE	his site is being remediated under IRP	with RCRA clean-up stan SOIL 7 CLAY/ STAR 2000	dards. <u>YPE</u> SAND WITH S <u>FYEAR</u>	STONE	
TOPOGRAPHY FLAT CURRENT USE CURRENT USE CURRENT USE	E 1 OTHER E 2 N/A E 3 N/A E 1 OTHER E 2 N/A	VEGE	his site is being remediated under IRP	with RCRA clean-up stan SOIL T CLAY/ STAR 2000 START	dards. YPE SAND WITH S TYEAR YEAR EN	STONE	

RMIS RANGE ID:

RMIS RANGE	ID:					SEVERITY	PROBABILIT	Y RAC
INSTALLATIO	N NAME	FFID	RANGE/SITE NAM	1E	STATUS	SCORE	SCORE	SCORE
SENECA DEPO	T ACTIVITY	NY213820830	FUNCTION TEST I	RANGE XD	TRANSFERRED	V		5
RANGE DESCI	RIPTION							
Area used to test	t serviceablility of mun	itions.						
CTT TOTAL A	CRES MMR	ACRES IDENTIF	IED MMR A	ACRES SUSPE	ECTED MN	AR ACRES N	NOT SUSPECTE	<u>ED</u>
15.1		0		0			15.1	
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONST	RUCTION DATE	RIP R	C DATE	
18	NAD83	349891	4729554		1/1/1963			
COMMENT								

Linked to 40 mm Grenade Range within New York Department of Corrections property. Site has been remediated, awaiting final documentation and approvals.

TOPOGRAPHY VEGETATION		VEGETATION	SOIL TYPE			
FLAT		LOW GRASS AND FEW SHRUBS	CLAY/SAND WITH STONE			
			START YEAR	····		
CURRENT USE 1	OTHER		2001			
CURRENT USE 2	N/A					
CURRENT USE 3	N/A					
			START YEAR	END YEAR		
HISTORIC USE 1	OTHER		1963	1991		
HISTORIC USE 2	N/A					
HISTORIC USE 3	N/A					

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RMIS RANGE ID: SEAD-005-R

INSTALLATIO	N NAME	FFID	RANGE/SITE NAME	STATUS		Y PROBABILITY SCORE	RAC SCORE
SENECA DEPO		NY213820830	LTA-I XD	TRANSFER	RED V	E	5
RANGE DESCH	RIPTION						
Small training an	d maneuver area in	n northern cantonment a	rea of SEAD.				
CTT TOTAL A	CRES M	MR ACRES IDENTIF	TIED MMRACH	RES SUSPECTED	MMR ACRE	S NOT SUSPECTE	D
8.2		0		0		8.2	
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DA	TE RIF	RCDATE	
18	NAD83	346326	4738271	1/1/1984			
COMMENT							
Property now with	in Kid's Peace juven	ile detention center.					
TOPOGRAPH	Y	VEGE	TATION	SO	L TYPE		
FLAT		BARR	EN OR LOW GRASS	CL	AY/SAND WIT	H STONE	
				ST.	ART YEAR		
CURRENT US	E1 OTHER			200	00		
CURRENT US	E2 N/A						
CURRENT US	E3 N/A						
				ST/	ART YEAR E	ND YEAR	
HISTORIC US	E 1 TRAINING	AREA/MANEUVER	AREA	198	4 1	995	
HISTORIC US	SE 2 N/A						
HISTORIC US	SE 3 N/A						

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RMIS RANGE ID: SEAD-006-R

KMIS KANGE ID: SEAD-000-K				SEVERITY .!	PROBABILIT	Y RAC
INSTALLATION NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	SCORE	SCORE
SENECA DEPOT ACTIVITY	NY213820830	LTA-2 (III)	CLOSED	III	В	3
RANGE DESCRIPTION						
Training and maneuver area on east si	de of SEAD.					

CTT TOTAL A	CRES MMF	ACRES IDENTIFI	ED MMR	ACRES SUSPECTED	MMR ACRES NOT SUSPECTED
319.9		0		319.9	. 0
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DAT	E RIP RC DATE
18	NAD83	348932	4735004	1/1/1984	
COMMENT					

TOPOGRAPHY		VEGETATION	SOIL TYPE	
FLAT		SHRUBS WITH SOME TREES	CLAY/SAND W	ITH STONE
			START YEAR	·
CURRENT USE 1	UNDEVELOPED		1995	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			START YEAR	END YEAR
HISTORIC USE 1	TRAINING AREA/MAN	EUVER AREA	1984	1995
HISTORIC USE 2	N/A			
HISTORIC USE 3	N/A			

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RMIS RANGE ID: SEAD-007-R

INSTALLATIO	N <u>NAME</u>	FFID	RANGE/SITE N/	AME STATI	SEVERITY JS SCORE	PROBABILIT	Y RAC SCORE
SENECA DEPO	TACTIVITY	NY213820830	LTA-3 (II)	CLOS	ED III	В	3
RANGE DESCI	RIPTION						
Training and ma	neuver area in southeas	st corner of SEAD.					
CTT TOTAL A	CRES MMR	ACRES IDENTIF	IED MME	R ACRES SUSPECTED	MMR ACRES	NOT SUSPECTE	D
151		0		151		0	
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION	ATE RIP	RC DATE	
18	NAD83	350361	4729580	1/1/1984			
COMMENT							

TOPOGRAPHY		VEGETATION	SOIL TYPE	
FLAT		SHRUBS WITH SOME TREES	CLAY/SAND W	ITH STONE
			START YEAR	
CURRENT USE 1	UNDEVELOPED		1995	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			START YEAR	END YEAR
HISTORIC USE 1	TRAINING AREA/MANE	UVER AREA	1984	1995
HISTORIC USE 2	N/A			
HISTORIC USE 3	N/A			

RMIS RANGE ID: SEAD-00	18-R			SEVERITY	PROBABILIT	Y RAC
INSTALLATION NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	SCORE	SCORE
SENECA DEPOT ACTIVITY	NY213820830	LTA-4 (I)	CLOSED	III	В	3
RANGE DESCRIPTION						
Training and maneuver range a	cross south end of SEAD.					
CTT TOTAL ACRES	MMR ACRES IDENTIF	IEDMMR ACRES SU	SPECTED N	1MR ACRES NO	OT SUSPE <u>CTI</u>	ED
906.7	0	906.7		•	0	

UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DATE	RIP RC DATE
18	NAD83	348505	4729449	1/1/1984	
COMMENT					

TOPOGRAPHY		VEGETATION	SOIL TYPE	
FLAT		SHRUBS WITH SOME TREES	CLAY/SAND W	ITH STONE
			START YEAR	
CURRENT USE 1	UNDEVELOPED		1995	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			START YEAR	END YEAR
HISTORIC USE 1	TRAINING AREA/MAN	EUVER AREA	1984	1995
HISTORIC USE 2	N/A			
HISTORIC USE 3	N/A			

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RMIS RANGE ID: SEAD-009-R

RMIS RANGE ID: SEAD-009-R				SEVERITY	PROBABILITY	RAC
INSTALLATION NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	SCORE	SCORE
SENECA DEPOT ACTIVITY	NY213820830	LTA-4 XD	TRANSFERRED	III	В	3
RANGE DESCRIPTION						
Portion of LTA-4 transferred to New	York Department Of	Corrections.				

CTT TOTAL A	CRES MMI	ACRES IDENTIFI	ED MMR	ACRES SUSPECTED	MMR ACRES NOT SUSPECTED
172		0		0	172
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DAT	TE RIP RC DATE
18	NAD83	349495	4729292	1/1/1984	
COMMENT					

TOPOGRAPHY		VEGETATION	SOIL TYPE	
FLAT		SHRUBS WITH SOME TREES	CLAY/SAND W	ITH STONE
			START YEAR	
CURRENT USE 1	UNDEVELOPED		1995	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			START YEAR	END YEAR
HISTORIC USE 1	TRAINING AREA/MANE	UVER AREA	1984	1995
HISTORIC USE 2	N/A			
HISTORIC USE 3	N/A			

RMIS RANGE ID: SEAD-010-R

RMIS RANGE	ID: SEAD-010-R					PROBABILITY	Y RAC
INSTALLATIO	N NAME	FFID	RANGE/SITE NAM	AE STATUS	S SCORE	SCORE	SCORE
SENECA DEPO	T ACTIVITY	NY213820830	LTA-5	CLOSE	D III	В	3
RANGE DESC	RIPTION						
Reaction course	at south west end of Sa	mpson Airfield.					
CTT TOTAL A	CRES MMR	ACRES IDENTIFI	ED MMR /	ACRES SUSPECTED	MMR ACRES	NOT SUSPECTE	D
48.4		0		48.4		0	
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DA	TE RIP F	RC DATE	
18	NAD83	345674	4729801	1/1/1984			
COMMENT							

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TOPOG<u>RAPHY</u>		VEGETATION	SOIL TYPE	
FLAT	_	SHRUBS WITH SOME TREES	CLAY/SAND W	ITH STONE
	_		START YEAR	
CURRENT USE 1	UNDEVELOPED		1995	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			START YEAR	END YEAR
HISTORIC USE 1	TRAINING AREA/MAN	EUVER AREA	1984	1995
HISTORIC USE 2	N/A			
HISTORIC USE 3	N/A			

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RMIS RANGE ID: SEAD-011-R

INSTALLATIO		FFID	RANGE/SITE NAME	STATUS	SEVERITY SCORE	PROBABILITY SCORE	RAC SCORE
SENECA DEPO	T ACTIVITY	NY213820830	LTA-6	CLOSED	III	В	3
RANGE DESC	RIPTION						
Training and ma	neuver area on Samps	on Airfield.					
CTT TOTAL A	CRES MMI	ACRES IDENTIF	TEDMMR_ACRE	<u>S SUSPECTED M</u>	MR ACRES N	NOT SUSPECTED)
380.3		0	38	80.3		.0	
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DATE	RIP R	C DATE	
18	NAD83	345865	4730431	1/1/1984			
COMMENT							
TOPOGRAPH	Y	VEGE	TATION	SOIL 1	YPE		
FLAT		CIDII					
		SHKU	BS WITH SOME TREES	CLAY/	SAND WITH S	STONE	
		SHKU	BS WITH SOME TREES		SAND WITH S	STONE	
CURRENT US	SE 1 UNDEVELOP		BS WITH SOME TREES			STONE	
CURRENT US	SE 2 N/A		BS WITH SOME TREES	STAR		STONE	
	SE 2 N/A		BS WITH SOME TREES	STAR		STONE	
CURRENT US	SE 2 N/A		BS WITH SOME TREES	STAR 1995			
CURRENT US	SE 2 N/A SE 3 N/A			STAR 1995	YEAR	DYEAR	
CURRENT US	SE 2 N/A SE 3 N/A SE 1 TRAINING A	ED		STAR 1995 START	YEAR	DYEAR	

RMIS RANGE ID: SEAD-012-R

INSTALLATIO	ON NAME	FFID	RANGE/SITE	NAME	STATUS	SEVERITY I SCORE	PROBABILIT SCORE	Y RAC SCORE
SENECA DEPO	T ACTIVITY	NY213820830	LTA-7		CLOSED	III	В	3
RANGE DESC	RIPTION							
Training and ma	neuver area on west site	e of SEAD.						
CTT TOTAL A	CRES MMR	ACRES IDENTIF	<u>IED MI</u>	MR ACRES SUSPECTE	<u>) N</u>	IMR ACRES NO	OT SUSPECTI	ED
183		0		183		· (D	
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCT	TION DATE	RIP RC	DATE	
18	NAD83	345334	4736335	1/1/	1984			
COMMENT								

TOPOGRAPHY		VEGETATION	 SOIL TYPE	
FLAT		SHRUBS WITH SOME TREES	CLAY/SAND W	ITH STONE
<u>- · · · · · · · · · · · · · · · · · · ·</u>			 START YEAR	
CURRENT USE 1	UNDEVELOPED		1995	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			 START YEAR	END YEAR
HISTORIC USE 1	TRAINING AREA/MANE	UVER AREA	1984	1995
HISTORIC USE 2	N/A			
HISTORIC USE 3	N/A			

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RMIS RANGE ID: SEAD-013-R

KMIS KANGE I	D: SEAD-015-K				SEVERITY	PROBABILITY	RAC
INSTALLATION	NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	SCORE	SCORE
SENECA DEPOT	ACTIVITY	NY213820830	LTA-IV	CLOSED	III	В	3
RANGE DESCR	IPTION						
Training and man	euver area along Kenda	ia Creek west of S	EAD.				
CTT TOTAL AC	CRES MMR A	CRES IDENTIF	TIED MMRACR	RES SUSPECTED	MMR ACRES	NOT SUSPECTE	.D
188		0		188		0	
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DAT	re <u>RIP</u> R	C DATE	
18	NAD83	343443	4734004	1/1/1984			
COMMENT							
May not have been	used. Appears only on on	ne map.					
TOPOGRAPHY	r	VEGE	TATION		L TYPE		
FLAT		SHRU	BS WITH SOME TREES	CLA	Y/SAND WITH	STONE	
				STA	RT YEAR		
CURRENT USE	1 UNDEVELOPED)		1995			
CURRENT USE							
CURRENT USE	E 3 N/A						
				<u>S</u> TA	RT YEAR EN	D YEAR	

HISTORIC USE 1	TRAINING AREA/MANEUVER AREA
HISTORIC USE 2	N/A

HISTORIC USE 3 N/A

1984

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1995

RMIS RANGE ID:

RMIS RANGE I	D:					PROBABILITY	
NSTALLATION	N NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	SCORE	SCORE
SENECA DEPOT	ΑϹΤΙVΙΤΥ	NY213820830	OPEN BURN/OPEN DETONATION GROUN	CLOSED NDS	Ι	В	1
RANGE DESCR	IPTION						
OB/OD Grounds	area adjacent facilities	in the northwest co	orner of Seneca Army Depo	t.			
CTT TOTAL AG	CRES MMR	ACRES IDENTIF	TIED MMR ACR	ES SUSPECTED M	IMR ACRES N	OT SUSPECTE	D
364.3		0		364.3		0	
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DATE	RIP R	C DATE	
18	NAD83	345484	4737844	1/1/1941			
COMMENT							
placed on BRAC in	sterim status in 1965 and	l a 4' by 60' burn pan	was added for OB of propellar	use since installation opening for 1 nt. A RCRA Part B permit application SOIL 1	tion was applied	for, but was never fi	nalized.
FLAT		BARR	EN OR LOW GRASS	CLAY/	SAND WITH S	STONE	
				STAR	T YEAR		
CURRENT USE	E 1 UNDEVELOPE	D		2000			
CURRENT US	E 2 N/A						
CURRENT US	E 3 N/A						
			· · · · · · · · · · · · · · · · · · ·	STAR1	TYEAR EN) YEAR	
HISTORIC US	E1 OB/OD			1941	200	D	
HISTORIC US	E 2 RCRA DISPOS	AL		1985	200	0	
HISTORIC US	E3 N/A						

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RMIS RANGE ID: SEAD-014-R

KHIS KANGE ID. SEAD-014-K				SEVERITY	PROBABILITY	Y RAC
INSTALLATION NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	SCORE	SCORE
SENECA DEPOT ACTIVITY	NY213820830	RIFLE GRENADE RANGE	CLOSED	II	В	2
RANGE DESCRIPTION						

Range on west side of SEAD, SW from OB/OD Grounds.

CTT TOTAL A	CRES MM	R ACRES IDENTIFIEI	<u>MMR</u>	ACRES SUSPECTED	MMR ACRES NOT SUSPECTED
49.8		49.8		0	0
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DA	ATE RIP RC DATE
18	NAD83	345078	4736413	1/1/1991	
COMMENT					

TOPOGRAPHY		VEGETATION	SOIL TYPE	
FLAT		SHRUBS WITH SOME TREES	CLAY/SAND W	ITH STONE
			START YEAR	
CURRENT USE 1	UNDEVELOPED		2000	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			START YEAR	END YEAR
HISTORIC USE 1	RIFLE GRENADE/ANTI-	TANK ROCKET	1991	2000
HISTORIC USE 2	TRAINING AREA/MAN	EUVER AREA	1984	2000
HISTORIC USE 3	N/A			

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RMIS RANGE ID: SEAD-015-R

INSTALLATION NAME	FFID	RANGE/SITE NAME	STATUS	SEVERITY	PROBABILIT SCORE	Y RAC SCORE
SENECA DEPOT ACTIVITY	NY213820830	SAMPSON RIFLE RANGE	CLOSED	V	E	5
RANGE DESCRIPTION						

CTT TOTAL A	CRES MMF	ACRES IDENTIF	TED MMR A	CRES SUSPECTED	MMR ACRES NOT SUSPECTED
159.4		0		0	159.4
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DAT	TE RIP RC DATE
18	NAD83	348964	4730370	1/1/1942	
COMMENT					

TOPOGRAPHY	VEGETATION		SOIL TYPE	
FLAT	BARREN OR LOW GRASS		CLAY/SAND W	ITH STONE
			START YEAR	
CURRENT USE 1 OTHER		÷	2000	
CURRENT USE 2 N/A				
CURRENT USE 3 N/A				
			START YEAR	END YEAR
HISTORIC USE 1 SMALL	ARMS		1942	2000
HISTORIC USE 2 N/A				
HISTORIC USE 3 N/A				

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RMIS RANGE ID: SEAD-016-R

RUIS RANGE ID: SEAD-010-R				SEVERITY	PROBABILITY	RAC
INSTALLATION NAME	FFID	RANGE/SITE NAME	STATUS	SCORE	SCORE	SCORE
SENECA DEPOT ACTIVITY	NY213820830	SAMPSON RIFLE RANGE XD 1	TRANSFERRED	v	E	5
RANGE DESCRIPTION						
Anna hataraa Gaaraa Alagala ad						

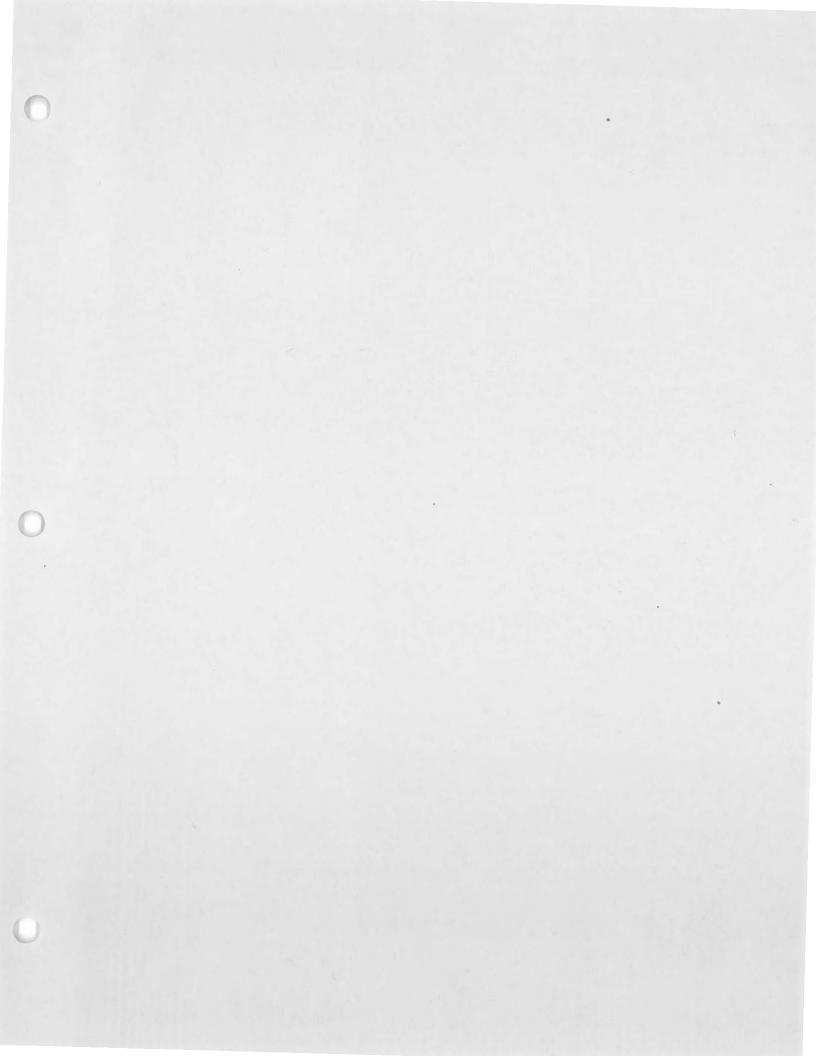
Area between Sampson Airfield and SEAD main post that is owned by a railroad.

CTT TOTAL A	CRES MMR	ACRES IDENTIFI	ED MMR	ACRES SUSPECTED	MMR ACRES NOT SUSPECTED
3.7		0		0	3.7
UTM ZONE	UTM DATUM	UTM X	UTM Y	CONSTRUCTION DA	TE RIP RC DATE
18	NAD83	346699	4729730	1/1/1942	
COMMENT					

TOPOGRAPHY		VEGETATION	SOIL TYPE	
FLAT		LOW GRASS AND FEW SHRUBS	CLAY/SAND W	ITH STONE
			START YEAR	
CURRENT USE 1	OTHER		2001	
CURRENT USE 2	N/A			
CURRENT USE 3	N/A			
			START YEAR	END YEAR
HISTORIC USE 1	SMALL ARMS		1942	2000
HISTORIC USE 2	N/A			
HISTORIC USE 3	N/A			

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INSTALLATION N	NAME	FFID	RANGE/SITE NAME			
SENECA DEPOT A	CTIVITY	NY213820830	40 MM GRENADE RANGE XD			
DODIC	DODIC D	ESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CT T08	GROUND	ROCKETS, RIFLE	GRENADES, PRACTICE	01/1941		
INSTALLATION N	NAME	FFID	RANGE/SITE NAME			
SENECA DEPOT A	CTIVITY	NY213820830	ABANDONED DEACTIVATION FURNACE			
DODIC	DODIC D	ESCRIPTION		<u>START DATE</u>	END DATE	MUNITIONS EXPENDED
CTT40	SMALL A	RMS (COMPLETE	ROUNDS)	01/1943	01/1961	
INSTALLATION	NAME	FFID	RANGE/SITE NAME			
SENECA DEPOT A	CTIVITY	NY213820830	ABANDONED POWDER BURN AREA			
DODIC	DODICE	ESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT44		ARY EXPLOSIVES IX, HBX, BK PWDE	(PETN, CMP ABC, TETRYL, TNT, R)			
INSTALLATION	NAME	FFID	RANGE/SITE NAME			
SENECA DEPOT	ACTIVITY	NY213820830	BAZOOKA RANGE			
DODIC	DODIC I	DESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT19	GROUNI	,	GRENADES (SMOKE, WP,	01/1941	01/1963	
CTT40	SMALL A	ARMS (COMPLETE	ROUNDS)	01/1941	01/1963	

12/05/2002

INSTALLATIO	N NAME	FFID	RANGE/SITE NAME			
SENECA DEPOT	Γ ΑCTIVITY	NY213820830	DEMOLITION RANGE			
DODIC	DODIC D	DESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTTH	LARGEC	ALIBER (37MM A	ND LARGER), HE	01/1941	01/1950	
INSTALLATIO	N NAME	FFID	RANGE/SITE NAME			
SENECA DEPO	T ACTIVITY	NY213820830	E.O.D RANGE !			
DODIC	DODIC I	DESCRI <u>PTION</u>		START DATE	END DATE	MUNITIONS EXPENDED
CTT42		SIGNALS, SIMUL THAN WHTE PHC	ATORS, OR SCREENING SMOKE SP)	01/1941	01/1995	
CTT05	HAND G	RENADES, LIVE		01/1941	01/1995	
CTT10	MEDIUM	A CALIBER (20MM	(, 25MM, 30MM), HE	01/1941	01/1995	
CTT44		DARY EXPLOSIVE MX, HBX, BK PWC	S (PETN, CMP ABC, TETRYL, TNT, ER)	01/1941	01/1995	
INSTALLATIO	ON NAME	FFID	RANGE/SITE NAME			<u> </u>
SENECA DEPC	OT ACTIVITY	Y NY213820830	E.O.D RANGE 2			
DODIÇ	DODIC	DESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT42		S, SIGNALS, SIMU	LATORS, OR SCREENING SMOKE	01/1941	01/1995	
	GROUN	D ROCKETS, RIFL	E GRENADES, LIVE	01/1941	01/1995	
CTT07						
СТТ07 СТТ08	GROUN	ID ROCKETS, RIFI	E GRENADES, PRACTICE	01/1941	01/1995	

CTT16	SMALL A	RMS		01/1941	01/1995	
INSTALLATION	NAME	FFID	RANGE/SITE NAME			
SENECA DEPOT	ACTIVITY	NY213820830	E.O.D RANGE 3			
DODIC	_ DODIC D	DESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT07	GROUND	ROCKETS, RIFLE	GRENADES, LIVE	01/1941	01/1995	
CTT08	GROUND	ROCKETS, RIFLE	GRENADES, PRACTICE	01/1941	01/1995	
CTT44		ARY EXPLOSIVES IX, HBX, BK PWDE	(PETN, CMP ABC, TETRYL, TNT, R)	01/1941	01/1995	
CTT16	SMALL A	ARMS		01/1941	01/1995	
CTT40	SMALL A	ARMS (COMPLETE	ROUNDS)	01/1941	01/1995	
INSTALLATIO	N NAME	FFID	RANGE/SITE NAME			
SENECA DEPO	ΓΑCΤΙVΙΤΥ	NY213820830	EXISTING DEACTIVATION FURNACE			
DODIC	DODIC I	DESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT40	SMALL /	ARMS (COMPLETE	ROUNDS)	01/1961	01/2000	
INSTALLATIO	N NAME	FFID	RANGE/SITE NAME			
SENECA DEPO	T ACTIVITY	NY213820830	FUNCTION TEST RANGE XD			
DODIC	DODIC	DESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT38	BLASTI	NG CAPS, FUZES, H	BOOSTERS, OR BURSTERS	01/1963	01/1991	
CTT06	HANDG	RENADES, PRACT	ICE	01/1963	01/1991	

12/05/2002

INSTALLATIO	N NAME	FFID	RANGE/SITE NAME	<u> </u>		
SENECA DEPO	ΓΑCΤΙVITY	NY213820830	LTA-I XD			
DODIC	DODIC D	ESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT42		SIGNALS, SIMUL THAN WHTE PHO	ATORS, OR SCREENING SMOKE SP)	01/1984	01/1995	
INSTALLATIO	N NAME	FFID	RANGE/SITE NAME			
SENECA DEPO	T ACTIVITY	NY213820830	LTA-2 (III)			
DODIC	DODIC D	ESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDE
CTT42	,	SIGNALS, SIMUL THAN WHTE PHO	ATORS, OR SCREENING SMOKE	01/1984	01/1995	
CTT06	HAND G	RENADES, PRAC	FICE	01/1984	01/1995	
INSTALLATIO	ON NAME	FFID	RANGE/SITE NAME			
SENECA DEPO	T ACTIVITY	NY213820830	LTA-3 (II)			
DODIC	DODIC I	DESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDE
CTT42		, SIGNALS, SIMU THAN WHTE PHO	ATORS, OR SCREENING SMOKE	01/1984	01/1995	
CTT06	HAND G	RENADES, PRAC	TICE	01/1984	01/1995	
INSTALLATI	ON NAME	FFID	RANGE/SITE NAME			
SENECA DEPO	OT ACTIVITY	(NY213820830	LTA-4 (I)			
DODIC	DODIC	DESCRIPTION_		START DATE	END DATE	MUNITIONS EXPENDE
CTT42		, SIGNALS, SIMU THAN WHTE PH	LATORS, OR SCREENING SMOKE OSP)	01/1984	01/1995	

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12/05/2002

CTT06	HAND GF	RENADES, PRACTI	CE	01/1984	01/1995	
INSTALLATION	<u>NAME</u>	<u>FFID</u>	RANGE/SITE NAME			
SENECA DEPOT	ACTIVITY	NY213820830	LTA-4 XD			
DODIC	DODIC E	ESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT42	,	SIGNALS, SIMULA THAN WHTE PHOS	ATORS, OR SCREENING SMOKE SP)	01/1984	01/1995	
CTT06	HAND GI	RENADES, PRACTI	CE	01/1984	01/1995	
INSTALLATION	NAME	FFID	RANGE/SITE NAME			
SENECA DEPOT	ACTIVITY	NY213820830	LTA-5			
DODIC	DODIC I	DESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
DODIC CTT42	FLARES,		ATORS, OR SCREENING SMOKE SP)	<u>START DATE</u> 01/1984	<u>END DATE</u> 01/1995	MUNITIONS EXPENDED
	FLARES, (OTHER	SIGNALS, SIMULA	SP)			MUNITIONS EXPENDED
CTT42	FLARES, (OTHER HAND G	SIGNALS, SIMULA THAN WHTE PHO:	SP)	01/1984	01/1995	MUNITIONS EXPENDED
CTT42 CTT06 INSTALLATIO	FLARES, (OTHER HAND G	SIGNALS, SIMULA THAN WHTE PHOS RENADES, PRACTI	SP) ICE	01/1984	01/1995	MUNITIONS EXPENDED
CTT42 CTT06 INSTALLATIO	FLARES, (OTHER HAND G N NAME CACTIVITY	SIGNALS, SIMULA THAN WHTE PHOS RENADES, PRACT F FID	SP) ICE RANGE/SITE NAME	01/1984	01/1995	MUNITIONS EXPENDED
CTT42 CTT06 INSTALLATIO SENECA DEPOT	FLARES, (OTHER HAND G N NAME ACTIVITY DODIC I FLARES	SIGNALS, SIMULA THAN WHTE PHOS RENADES, PRACT FFID NY213820830 DESCRIPTION	SP) ICE RANGE/SITE NAME LTA-6 ATORS, OR SCREENING SMOKE	01/1984 01/1984	01/1995 01/1995	· · · · · · · · · · · · · · · · · · ·

NSTALLATION	NAME	FFID	RANGE/SITE NAME			
SENECA DEPOT	ACTIVITY	NY213820830	LTA-7			
DODIC _	DODIC D	ESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT42		SIGNALS, SIMULA THAN WHTE PHOS	TORS, OR SCREENING SMOKE	01/1984	01/1995	
CTT06	HAND GF	RENADES, PRACTI	CE	01/1984	01/1995	
INSTALLATION	INAME	FFID	RANGE/SITE NAME			
SENECA DEPOT	ACTIVITY	NY213820830	LTA-IV			
DODIC	DODIC I	DESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT42		SIGNALS, SIMULA THAN WHTE PHOS	ATORS, OR SCREENING SMOKE SP)	01/1984	01/1995	
CTT06	HAND G	RENADES, PRACT	ICE	01/1984	01/1995	
INSTALLATIO	NAME	FFID	RANGE/SITE NAME			
SENECA DEPOT	ACTIVITY	NY213820830	OPEN BURN/OPEN DETONATIO GROUNDS	N		
DODIC	DODIC	DESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDE
CTT01	BOMBS,	HIGH EXPLOSIVE		01/1941	01/2000	
CT T 04	DEMOLI	TION MATERIALS	3	01/1941	01/2000	
CT T 42		, SIGNALS, SIMUL THAN WHTE PHO	ATORS, OR SCREENING SMOKE DSP)	01/1941	01/2000	
	GROUN	D ROCKETS, RIFLI	E GRENADES, LIVE	01/1941	01/2000	
CTT07	QROOM					

CTT18	HAND GRENADES (SMOKE, WP, INCENDIARY)	01/1941	01/2000
CTT05	HAND GRENADES, LIVE	01/1941	01/2000
CTT09	LANDMINES, ANTI-PERSONNEL	01/1941	01/2000
CTT28	LANDMINES, ANTI-TANK	01/1941	01/2000
CTT21	LARGE CALIBER (37MM AND LARGER), (SMOKE, WP, INCENDIARY)	01/1941	01/2000
CTT11	LARGE CALIBER (37MM AND LARGER), HE	01/1941	01/2000
CTT10	MEDIUM CALIBER (20MM, 25MM, 30MM), HE	01/1941	01/2000
CTT15	PYROTECHNICS	01/1941	01/2000
CTT44	SECONDARY EXPLOSIVES (PETN, CMP ABC, TETRYL, TNT, RDX, HMX, HBX, BK PWDER)	01/1941	01/2000
CTT16	SMALL ARMS	01/1941	01/2000
CTT40	SMALL ARMS (COMPLETE ROUNDS)	01/1941	01/2000

INSTALLATION NAME FFID RANGE/SITE NAME

SENECA DEPOT ACTIVITY NY213820830 RIFLE GRENADE RANGE

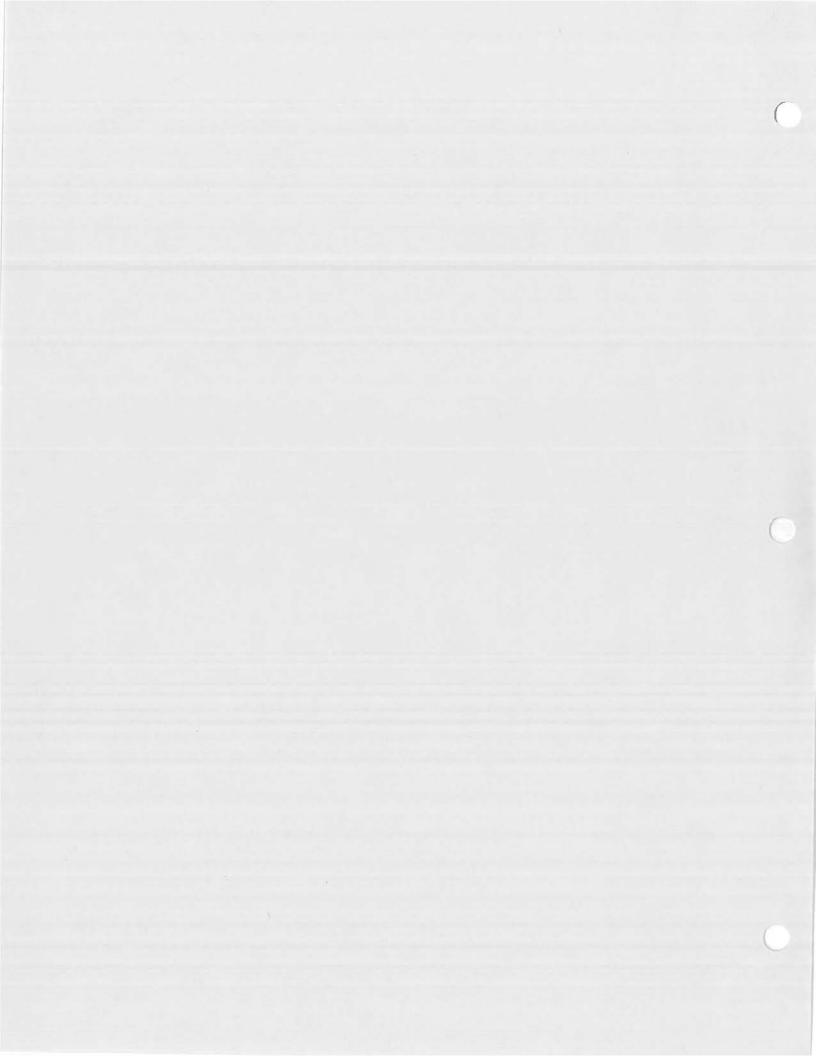
DODIC	DODIC DESCRIPTION	START DATE	END DATE	MUNITIONS EXPENDED
CTT19	GROUND ROCKETS, RIFLE GRENADES (SMOKE, WP, INCENDIARY)	01/1991	01/2000	
CTT08	GROUND ROCKETS, RIFLE GRENADES, PRACTICE	01/1991	01/2000	

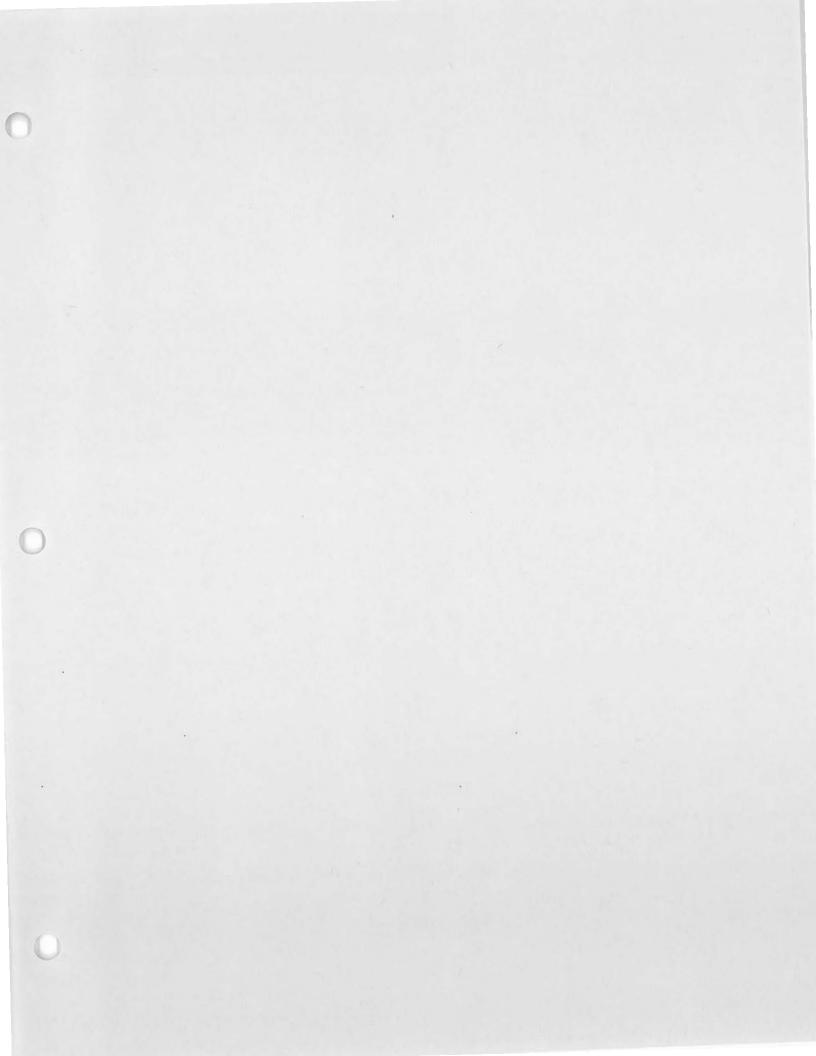
INSTALLATION	NAME	FFID	RANGE/SITE NAME			
SENECA DEPOT	ACTIVITY	NY213820830	SAMPSON RIFLE RANGE			
DODIC	DODIC D	ESCRIPTION		START DATE	END DATE	MUNITIONS EXPENDED
CTT16	SMALL A	RMS		01/1942	01/2000	
INSTALLATION	N NAME	FFID	RANGE/SITE NAME			
INSTALLATION SENECA DEPOT			RANGE/SITE NAME SAMPSON RIFLE RANGE XD 1			
·····	ACTIVITY			START DATE	END DATE	MUNITIONS EXPENDED

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Ownership Table

INSTALLAT	TON NAM	<u>1e fi</u>	<u>TID</u>	RANG	E/SITE NA	ME <u>ALLA</u>	RMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DE	POT ACTI	VITY N	Y21382083	0 40 MM	GRENAD	E RANGE XD	N	STATE AGENC	Y NEW YOR DEPARTM CORRECTI	ENT OF
FEDERAL LEASE	STATE LEASE		TRIBAL LEASE	PRIVATE LEASE	OTHER LEASE	OTHER LEASE DESCRIPTION			LEASE TERMINATED	REVOCATION OF LAND
N	N	N	N	N	N	N/A			N	N
INSTALLAT	<u>FION NAN</u>	<u>4E F</u>	FID	RANG	<u>E/SITE N/</u>	AME ALLA	RMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DE	POT ACT	IVITY N	Y21382083	-	DONED		Y	DOD	N/A	
				DEAC	ITVATION	I FURNACE				
FEDERAL					• • • • • • • •				LEASE	REVOCATION
LEASE		LEASE		LEASE	LEASE	DESCRIPTION			TERMINATED	OF LAND
N	N	N	N	Ν	N	N/A			N	N
INSTALLA	TION NAI	<u>ME </u> F	FID	RANG	E/SITE N	AME ALL	ARMY OWNED	OWNER	OWNER	DESCRIPTION
SENECA DE	EPOT ACT	IVITY N	IY2138208:	30 ABAN AREA		OWDER BURN	Y	DOD	N/A	
FEDERAL LEASE		LOCAL LEASE		PRIVATE LEASE	OTHER LEASE				LEASE <u>TERMINATED</u>	REVOCATION OF LAND
N	N	N	N	N	N	N/A			Ν	N

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Ownership Table

INSTALLAT	TON NAN	1E FI	FID	RANG	E/SITE NA	ME	ALL ARMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DE	POT ACTI	VITY N	Y21382083	0 BAZO	OKA RAN	GE	Y	DOD	N/A	
FEDERAL LEASE	STATE LEASE		TRIBAL LEASE	PRIVATE LEASE	OTHER LEASE	OTHER DESCRI			LEASE TERMINATED	REVOCATION OF LAND
Ν	N	Ν	Ν	N	N	N/A			N	Ν
<u>INSTALLA</u>	<u>FION NAN</u>	<u>4E F</u>	FID	RANG	E/SITE N/	AME	ALL ARMY OWNED	OWNER	OWNER I	DESCRIPTION
SENECA DE	POT ACT	IVITY N	Y2138208	30 DEMC	DLITION R	ANGE	Y	DOD	N/A	
FEDERAL	STATE LEASE			PRIVATE LEASE	OTHER LEASE	OTHER DESCRE			LEASE TERMINATED	REVOCATION OF LAND
LEASE	LEASE N	LEASE N	LEASE	LEASE N	LEASE	DESCRI N/A		OWNER	TERMINATED N	OF LAND
<u>LEASE</u> N	LEASE N TION NAI	LEASE N ME F	LEASE N FID	LEASE N RANG	LEASE N	DESCRI N/A	PTION	OWNER DOD	TERMINATED N	OF LAND N
<u>LEASE</u> N <u>INSTALLA</u> SENECA DE	LEASE N FION NAI EPOT ACT STATE	LEASE N ME F IVITY N	LEASE N FID IY2138208 TRIBAL	LEASE N RANG	LEASE N SE/SITE N RANGE 1	DESCRI N/A AME OTHER	ALL ARMY OWNED Y LEASE	-	TERMINATED N OWNER I	OF LAND N DESCRIPTION REVOCATION

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INSTALLA	FION NAM	4 <u>E F</u>	FID	RANG	E/SITE NA	ME ALLA	RMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DE	POT ACT	VITY N	Y213820830) E.O.D	RANGE 2		Y	DOD	N/A	
FEDERAL LEASE		LOCAL LEASE		PRIVATE LEASE	OTHER LEASE	OTHER LEASE DESCRIPTION			LEASE <u>TERMINATED</u>	REVOCATION OF LAND
N	Ν	N	N	Ν	Ν	N/A			N	Ν
INSTALLA	<u>TION NAM</u>	ME_F	<u>FID</u>	RANG	<u>E/SITE N</u> /	AMEALLA	RMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DE	EPOT ACT	IVITY N	Y21382083	0 E.O.D	RANGE 3		Y	DOD	N/A	
FEDERAL		DO 411- D	TRIBAL LEASE	PRIVATE _LEASE	OTHER LEASE	OTHER LEASE DESCRIPTION			LEASE TERMINATED	REVOCATION OF LAND
		DO 411- D				0				
LEASE N INSTALLA	LEASE N	LEASE N MEF	LEASE N	LEASE N RANG	LEASE N	DESCRIPTION N/A AME ALL	ARMY OWNED	OWNER	TERMINATED N OWNER I	OF LAND
LEASE N	LEASE N	LEASE N MEF	LEASE N	LEASE N RANG	LEASE N E/SITE N/	DESCRIPTION N/A		OWNER DOD	TERMINATED N	OF LAND N
LEASE N INSTALLA SENECA DI	LEASE N TION NAI EPOT ACT	LEASE N ME_F IVITY N LOCAL	LEASE N	LEASE N RANG 0 EXIST FURN	LEASE N E/SITE N/ TING DEA(ACE	DESCRIPTION N/A AME ALL / CTIVATION OTHER LEASE	ARMY OWNED		TERMINATED N OWNER I	OF LAND N DESCRIPTION REVOCATION

INSTALLAT	'ION NAM	<u>1e fi</u>	FID	RANG	E/SITE NA	ME ALL	ARMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DE	POT ACTI	VITY N	Y21382083	0 FUNCI	TION TEST	FRANGE XD	N	STATE AGENCY	Y NEW YORH DEPARTMI CORRECTI	ENT OF
FEDERAL LEASE		LOCAL LEASE	TRIBAL LEASE	PRIVATE LEASE	OTHER LEASE	OTHER LEAS DESCRIPTION		1	LEASE FERMINATED	REVOCATION OF LAND
N	Ν	N	N	N	N	N/A			N	N
INSTALLAT	TION NAM	ME F	FID	RANG	E/SITE N/	AME ALI	ARMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DE	POT ACT	IVITY N	Y21382083	30 LTA-1	XD		N	STATE AGENC	DEPARTM	ENT OF
									CORRECT	IONS
FEDERAL LEASE	÷	LOCAL LEASE	TRIBAL LEASE	PRIVATE LEASE	OTHER LEASE	OTHER LEAS DESCRIPTIO			LEASE TERMINATED	IONS REVOCATION OF LAND
	÷								LEASE	REVOCATION
LEASE	LEASE N	N	LEASE	LEASE N	LEASE	DESCRIPTIO N/A			LEASE <u>TERMINATED</u> N	REVOCATION OF LAND
LEASE N	LEASE N TION NA	N ME_F	LEASE N	LEASE N RANG	LEASE N E/SITE N	DESCRIPTIO N/A	N		LEASE <u>TERMINATED</u> N	REVOCATION OF LAND N
LEASE N INSTALLA	LEASE N TION NA	LEASE N MEF IVITY N LOCAL	LEASE N FID IY2138208	LEASE N RANG	LEASE N SE/SITE N. (III)	DESCRIPTIO N/A AME AL OTHER LEAS	N L ARMY OWNEI Y SE	D OWNER DOD	LEASE <u>TERMINATED</u> N OWNER I	REVOCATION OF LAND N DESCRIPTION REVOCATION

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INSTALLAT	TON NAM	1 <u>E F</u> I	FID	RANG	E/SITE NA	ME ALLAI	RMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DE	POT ACT	VITY N	Y21382083	0 LTA-3	(II)		Y	DOD	N/A	
FEDERAL LEASE		LOCAL LEASE	TRIBAL LEASE	PRIVATE LEASE	OTHER LEASE	OTHER LEASE DESCRIPTION			LEASE TERMINATED	REVOCATION OF LAND
Ν	N	N	Ν	N	N	N/A			Ν	N
INSTALLA	<u>FION NA</u>	<u>ME F</u>	FID	RANG	E/SITE N/	AMEALLA	RMY OWNED	OWNER	OWNER I	DESCRIPTION
SENECA DE	POT ACT	IVI T Y N	Y2138208	30 LTA-4	(I)		Y	DOD	N/A	
FEDERAL LEASE			TRIBAL LEASE	PRIVATE LEASE	OTHER LEASE	OTHER LEASE DESCRIPTION			LEASE TERMINATED	REVOCATION OF LAND
	LIGHOL	LEASE	DEADE						I ERMINATED	OF BARD
N	N	N N	N	N	N	N/A	<u> </u>		N	N
N INSTALLA	N	N		N		N/A	RMY OWNED	OWNER	N	
	N <u>FION NA</u>	N MEF	N FID	N RANG	N E/SITE N	N/A	RMY OWNED Y	OWNER DOD	N	N
INSTALLA SENECA DI	N FION NA EPOT ACT STATE	N ME F IVITY N	N FID IY2138208 TRIBAL	N RANG	N E/SITE N XD	N/A AME ALL A OTHER LEASE			N OWNER	N DESCRIPTION REVOCATION

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INSTALLAT	TON NAM	<u>1e Fl</u>	FID	RANG	E/SITE NA	ME ALL AF	RMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DE	POT ACT	IVITY N	Y2138208 3	0 LTA-5			Y	DOD	N/A	
FEDERAL LEASE		LOCAL LEASE	TRIBAL LEASE	PRIVATE LEASE	OTHER LEASE	OTHER LEASE DESCRIPTION			LEASE TERMINATED	REVOCATION OF LAND
N	N	Ν	N	N	N	N/A			N	N
INSTALLAT	TION NA	<u>Me f</u>	FID	RANG	<u>e/site n/</u>	AME ALL AI	RMY OWNED	OWNER	OWNER [ESCRIPTION
SENECA DE	POT ACT	IVITY N	Y2138208	30 LTA-6			Y	DOD	N/A	
FEDERAL LEASÉ	STATE LEASE			PRIVATE LEASE	OTHER LEASE	OTHER LEASE DESCRIPTION			LEASE TERMINATED	REVOCATION OF LAND
	-									
LEASE	LEASE N	LEASE N	LEASE	LEASE N	LEASE	DESCRIPTION N/A	RMY OWNED	OWNER	TERMINATED N	OF LAND
LEASE N	LEASE N	LEASE N ME F	LEASE N TFID	LEASE N RANG	LEASE N E/SITE N	DESCRIPTION N/A	RMY OWNED	OWNER DOD	TERMINATED N	OF LAND N
LEASE N <u>INSTALLA</u> SENECA DE	N N TION NA	LEASE N ME F IVITY N LOCAL	LEASE N FID (Y2138208 TRIBAL	LEASE N RANG	LEASE N	DESCRIPTION N/A AME ALL A OTHER LEASE			TERMINATED N OWNER I	OF LAND N DESCRIPTION REVOCATION

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INSTALLATION NAL	ME F	FID	RANG	E/SITE NA	ME AL	LARMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DEPOT ACT	IVITY N	Y21382083	0 LTA-IV	/		Y	DOD	N/A	
FEDERAL STATE LEASE LEASE	LOCAL LEASE	TRIBAL LEASE	PRIVATE LEASE	OTHER LEASE	OTHER LEA			LEASE TERMINATED	REVOCATION OF LAND
N N	N	N	Ν	N	N/A			N	Ν
INSTALLATION NA	M <u>e</u> f	<u>FID</u>	RANG	<u>E/SITE NA</u>	<u>AME AL</u>	L ARMY OWNED	OWNER	OWNER D	ESCRIPTION_
SÉNECA DEPOT ACT	IVITY N	Y21382083	• •••	BURN/OP		Y	DOD	N/A	
			DETO	NATION C	ROUNDS				
FEDERAL STATE LEASE LEASE	LOCAL LEASE		PRIVATE LEASE	OTHER LEASE	OTHER LEA			LEASE TERMINATED	REVOCATION OF LAND
	_				V-11-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0				
LEASE LEASE N N	LEASE N	LEASE	LEASE N	LEASE	DESCRIPTION/A		OWNER	TERMINATED N	OF LAND N
LEASE LEASE N N INSTALLATION NA	LEASE N ME F	LEASE N	LEASE N RANG	LEASE N E/SITE N	DESCRIPTION/A	UL ARMY OWNED		TERMINATED N OWNER I	OF LAND
LEASE LEASE N N INSTALLATION NA SENECA DEPOT AC	LEASE N ME F	LEASE N FID	LEASE N RANG	LEASE N E/SITE N GRENAD	DESCRIPTION/A	UN	OWNER DOD	TERMINATED N	OF LAND N
LEASE LEASE N N INSTALLATION NA SENECA DEPOT AC	LEASE N ME F TIVITY N LOCAL	LEASE N FID NY2138208: TRIBAL	N RANG 30 RIFLE	LEASE N E/SITE N GRENAD	DESCRIPTION/A N/A AME AI E RANGE OTHER LEA	UL ARMY OWNED Y		N N OWNER I N/A	OF LAND N DESCRIPTION REVOCATION

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INSTALLATION N/	ME F	FID	RANG	E/SITE NA	ME	ALL AF	RMY OWNED	OWNER	OWNER D	ESCRIPTION
SENECA DEPOT AC	TIVITY N	Y213820830	SAMPS	SON RIFLE	ERANGE		Y	DOD	N/A	
	LOCAL E LEASE	TRIBAL LEASE	PRIVATE LEASE	OTHER LEASE	OTHER DESCRI				LEASE TERMINATED	REVOCATION OF LAND
N N	N	N	N	N	N/A				N	N
INSTALLATION N	ME B	FID	RANG	E/SITE N/	ME	ALL A	RMY OWNED	OWNER	OWNER I	DESCRIPTION
SENECA DEPOT AC	TIVITY 1	NY21382083	0 SAMP	SON RIFLI	E RANGE	XD I	N	STATE AGENC	CY NEW YOR DEPARTM CORRECT	IENT OF
FEDERAL STAT	E LOCAL E LEASE		PRIVATE LEASE	OTHER LEASE	OTHER DESCRI				LEASE TERMINATED	REVOCATION OF LAND
N N	N	N	N	N	N/A				N	N

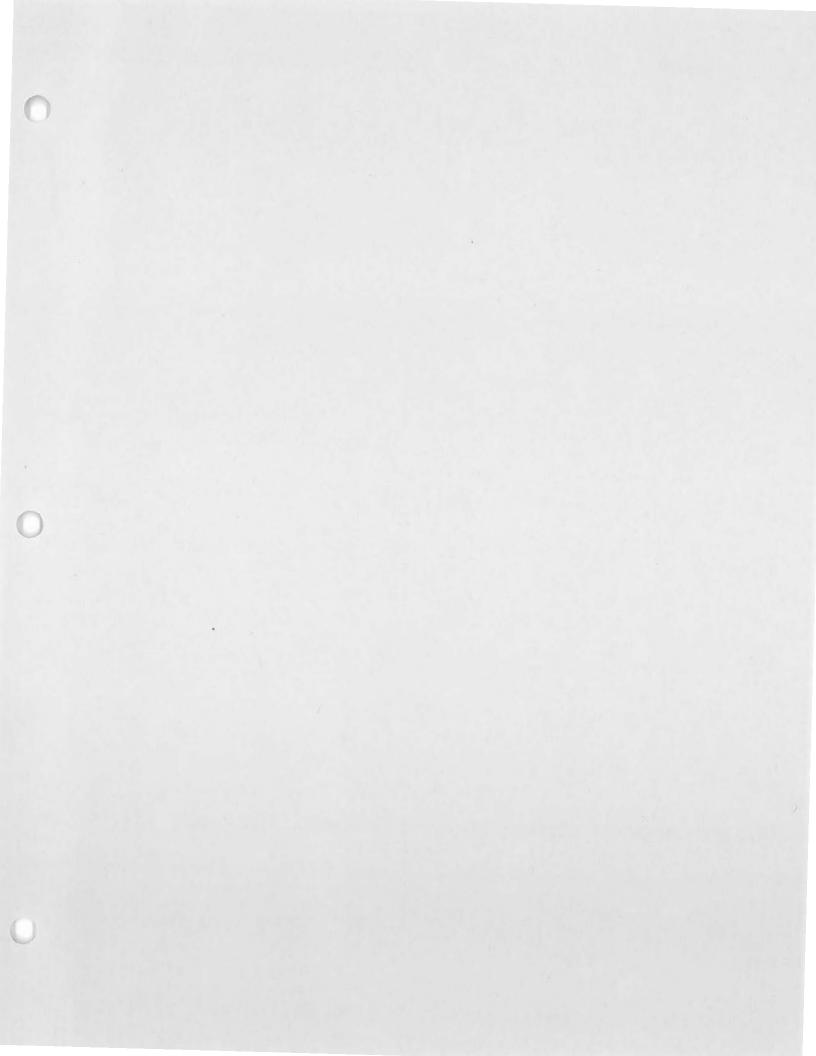
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INSTALLATION NAME FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY NY213820830	40 MM GRENADE RANGE XD	ACCESS CONTROL	FENCES	NPA
DESCRIPTION: FENCE AROUND AREA	BEING REMEDIATED			
SENECA DEPOT ACTIVITY NY213820830	40 MM GRENADE RANGE XD	ACCESS CONTROL	LOCKED GATES	NPA
DESCRIPTION: FENCE AROUND AREA	BEING REMEDIATED			
INSTALLATION NAME FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY NY213820830	ABANDONED DEACTIVATION FURNACE	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CONTROLS ON SITE	E			
INSTALLATION NAME FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
INSTALLATION NAME FFID SENECA DEPOT ACTIVITY NY213820830	RANGE/SITE NAME ABANDONED POWDER BURN AREA	RESTRICTION TYPE ACCESS CONTROL	RESTRICTION OTHER	PUBLIC ACCESS NPA
	ABANDONED POWDER BURN AREA			
SENECA DEPOT ACTIVITY NY213820830	ABANDONED POWDER BURN AREA		OTHER	
SENECA DEPOT ACTIVITY NY213820830 DESCRIPTION: NO CONTROLS ON SIT	ABANDONED POWDER BURN AREA E RANGE/SITE NAME	ACCESS CONTROL	OTHER	NPA
SENECA DEPOT ACTIVITY NY213820830 DESCRIPTION: NO CONTROLS ON SIT INSTALLATION NAME FFID	ABANDONED POWDER BURN AREA E RANGE/SITE NAME BAZOOKA RANGE	ACCESS CONTROL	OTHER	NPA PUBLIC ACCESS
SENECA DEPOT ACTIVITY NY213820830 DESCRIPTION: NO CONTROLS ON SIT INSTALLATION NAME FFID SENECA DEPOT ACTIVITY NY213820830	ABANDONED POWDER BURN AREA E RANGE/SITE NAME BAZOOKA RANGE	ACCESS CONTROL	OTHER RESTRICTION OTHER	NPA PUBLIC ACCESS
SENECA DEPOT ACTIVITY NY213820830 DESCRIPTION: NO CONTROLS ON SIT INSTALLATION NAME FFID SENECA DEPOT ACTIVITY NY213820830 DESCRIPTION: NO CONTROLS ON SIT	ABANDONED POWDER BURN AREA E RANGE/SITE NAME BAZOOKA RANGE E RANGE/SITE NAME	ACCESS CONTROL RESTRICTION TYPE ACCESS CONTROL	OTHER RESTRICTION OTHER	NPA PUBLIC ACCESS NPA
SENECA DEPOT ACTIVITY NY213820830 DESCRIPTION: NO CONTROLS ON SIT INSTALLATION NAME FFID SENECA DEPOT ACTIVITY NY213820830 DESCRIPTION: NO CONTROLS ON SIT INSTALLATION NAME FFID	ABANDONED POWDER BURN AREA E RANGE/SITE NAME BAZOOKA RANGE E RANGE/SITE NAME DEMOLITION RANGE	ACCESS CONTROL RESTRICTION TYPE ACCESS CONTROL RESTRICTION TYPE	OTHER RESTRICTION OTHER RESTRICTION	NPA PUBLIC ACCESS NPA PUBLIC ACCESS

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INSTALLATION NAME FFI	D RANG	E/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY NY2	213820830 E.O.D	RANGE 1	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CONTROL	LS AT SITE				
INSTALLATION NAME FFI	D RANG	GE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY NY2	213820830 E.O.D	RANGE 2	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CONTROL	LS A T SITE				
INCTALLATION NAME DEL	D DAN		B DORBLORI ON MUSS		
INSTALLATION NAME FFI			RESTRICTION TYPE		PUBLIC ACCESS
SENECA DEPOT ACTIVITY NY2	213820830 E.O.E	ORANGE 3	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CONTROL	LS ON SITE				
INSTALLATION NAME FFI	D RAN	GE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY NY2	DEA	TING CTIVATION NACE	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CONTROL	LS ON SITE				
INSTALLATION NAME FFI	ID RAN	GE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY NY	213820830 FUN XD	CTION TEST RANGE	ACCESS CONTROL	FENCES	NPA
DESCRIPTION: FENCE/GATE	E PREVENT ENTRY	Y TO REMEDIATION A	REA		
SENECA DEPOT ACTIVITY NY	213820830 FUN XD	CTION TEST RANGE	ACCESS CONTROL	LOCKED GATES	NPA
DESCRIPTION: FENCE/GATE	E PREVENT ENTRY	Y TO REMEDIATION A	REA		
INSTALLATION NAME FFI	ID RAN	GE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
		2 o	f 5		12/05/2002

INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY	NY213820830	LTA-I XD	ACCESS CONTROL	OTHER	RPA
DESCRIPTION: NO CON	TROLS ON SITE				
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY	(NY213820830	LTA-2 (III)	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CON	TROLS ON SITE				
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY	Y NY213820830	LTA-3 (II)	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CON	TROLS ON SITE				
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY	Y NY213820830	LTA-4 (I)	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CON	TROLS ON SITE				
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVIT	Y NY213820830	LTA-4 XD	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CON	TROLS ON SITE				
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVIT	Y NY213820830	LTA-5	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CON	NTROLS ON SITE				
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS

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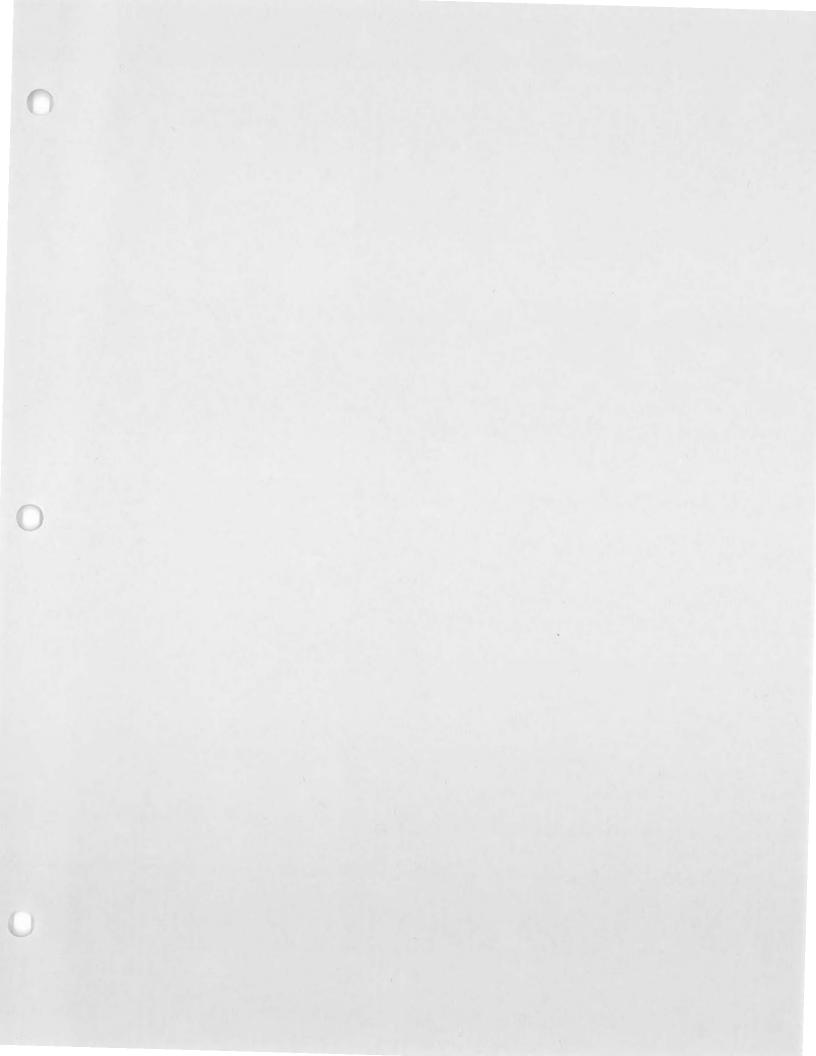
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY	NY213820830	LTA-6	ACCESS CONTROL	SIGNS	NPA
DESCRIPTION: NO CON	TROLS ON SITE				
INSTALLATION NAME	FFID				
		RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY	(NY213820830	LTA-7	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CON	TROLS ON SITE				
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY	(NY213820830	LTA-IV	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CON	TROLS ON SITE				
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
INSTALLATION NAME SENECA DEPOT ACTIVITY		RANGE/SITE NAME OPEN BURN/OPEN DETONATION GROUNDS	RESTRICTION TYPE ACCESS CONTROL	RESTRICTION	PUBLIC ACCESS NPA
SENECA DEPOT ACTIVITY	Y NY213820830	OPEN BURN/OPEN DETONATION GROUNDS	ACCESS CONTROL		
SENECA DEPOT ACTIVITY	Y NY213820830	OPEN BURN/OPEN	ACCESS CONTROL		
SENECA DEPOT ACTIVITY	Y NY213820830 LOCKED GATE,	OPEN BURN/OPEN DETONATION GROUNDS	ACCESS CONTROL		
SENECA DEPOT ACTIVITY DÉSCRIPTION: FENCE, I SENECA DEPOT ACTIVITY	Ý NY213820830 LOCKED GATE, Y NY213820830	OPEN BURN/OPEN DETONATION GROUNDS SIGNS, PERMISSION REQUIE OPEN BURN/OPEN	ACCESS CONTROL RED TO ENTER ACCESS CONTROL	FENCES	NPA
SENECA DEPOT ACTIVITY DESCRIPTION: FENCE, I SENECA DEPOT ACTIVITY	Y NY213820830 LOCKED GATE, Y NY213820830 LOCKED GATE,	OPEN BURN/OPEN DETONATION GROUNDS SIGNS, PERMISSION REQUIE OPEN BURN/OPEN DETONATION GROUNDS	ACCESS CONTROL RED TO ENTER ACCESS CONTROL	FENCES	NPA

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INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY	NY213820830	OPEN BURN/OPEN DETONATION GROUNDS	LAND USE RESTRICTION	ADMINISTRATIVE ORDER	NPA
DESCRIPTION: FENCE, I	OCKED GATE, S	SIGNS, PERMISSION REQUIR	ED TO ENTER		
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
SENECA DEPOT ACTIVITY	NY213820830	RIFLE GRENADE RANGE	ACCESS CONTROL	OTHER	NPA
DESCRIPTION: NO CON	TROLS ON SITE				
			DEGEDIORION	DECODICATON	DUDI IO I COPOG
INSTALLATION NAME	FFID	RANGE/SITE NAME	RESTRICTION TYPE	RESTRICTION	PUBLIC ACCESS
INSTALLATION NAME SENECA DEPOT ACTIVITY		RANGE/SITE NAME	RESTRICTION TYPE ACCESS CONTROL	OTHER	PUBLIC ACCESS
	(NY213820830				
SENECA DEPOT ACTIVITY	(NY213820830			OTHER	
SENECA DEPOT ACTIVITY DESCRIPTION: NO CON	(NY213820830 TROLS ON SITE FFID	SAMPSON RIFLE RANGE	ACCESS CONTROL	OTHER	NPA

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Range Demographics Table

INSTALLATION NAME	FFID	RANGE/SITE NAME	ТҮРЕ	NAME	STATE	COUNTRY
SENECA DEPOT ACTIVITY	NY213820830	40 MM GRENADE RANGE XD	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	ABANDONED DEACTIVATION FURNACE	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	ABANDONED POWDER BURN AREA	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	BAZOOKA RANGE	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	DEMOLITION RANGE	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	E.O.D RANGE I	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	E.O.D RANGE 2	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	E.O.D RANGE 3	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	EXISTING DEACTIVATION FURNACE	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	FUNCTION TEST RANGE XD	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	LTA-I XD	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	LTA-2 (111)	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	LTA-3 (II)	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	LTA-4 (I)	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	LTA-4 XD	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	LTA-5	COUNTY	SENEÇA	NY	UNITED STATES

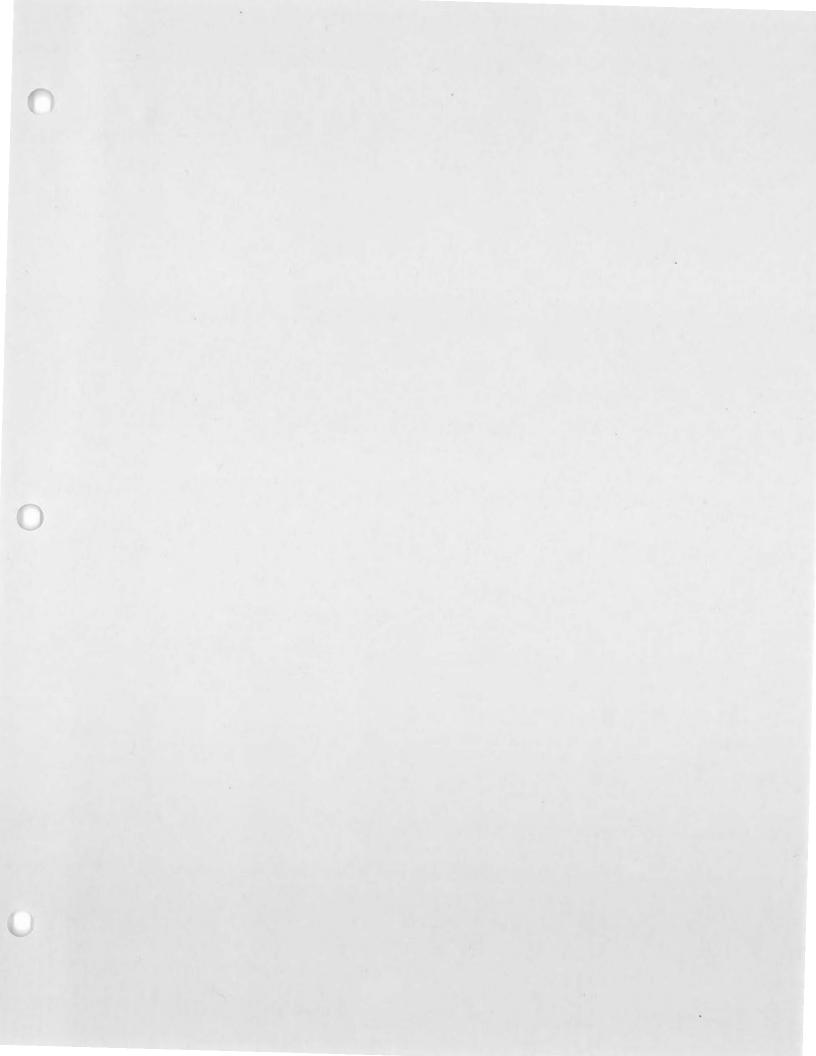
Range Demographics Table

INSTALLATION NAME	FFID	RANGE/SITE NAME	TYPE	NAME	STATE	COUNTRY
SENECA DEPOT ACTIVITY	NY213820830	LTA-6	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	LTA-7	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	LTA-IV	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	OPEN BURN/OPEN DETONATION GROUNDS	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	RIFLE GRENADE RANGE	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	SAMPSON RIFLE RANGE	COUNTY	SENECA	NY	UNITED STATES
SENECA DEPOT ACTIVITY	NY213820830	SAMPSON RIFLE RANGE XD 1	COUNTY	SENECA	NY	UNITED STATES

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INSTALLATION NAME FFID	RANGE/SITE NAME	RMIS RANGE ID	RMIS SITE ID ON RANGE FLAG
SENECA DEPOT ACTIVITY NY213820830	40 MM GRENADE RANGE XD	SEAD-001-R	SEAD-001-R-01 Y
RMIS SITE USEAGE: SMALL BUFFER ARMS AREA DISPOSAL OBOD RANGE	SKEET RANGE TESTING TRAINING	WASTE MILITARY MUNITIONS OTHER	OTHER DESCRIPTION
N N N N	N N Y	N Y	
DRINKING GROUNDWATER CON WATER DEPTH (FT)	STITUENT FLAG UXO DENSITY		
ACTUAL 10	N Low		
INSTALLATION NAME FFID	RANGE/SITE NAME	RMIS RANGE ID	RMIS SITE ID ON RANGE FLAG
SENECA DEPOT ACTIVITY NY213820830	ABANDONED DEACTIVATION FURNACE		
RMIS SITE USEAGE: SMALL BUFFER ARMS AREA DISPOSAL OBOD RANGE	SKEET RANGE TESTING TRAINING	WASTE MILITARY G MUNITIONS OTHE	R_OTHER DESCRIPTION

DRINKING GROUNDWATER CONSTITUENT WATER DEPTH (FT) FLAG UXO DENSITY

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INSTALLATION NAME FFID	RANGE/SITE NAME	RMIS RANGE ID	RMIS SITE ID	ON RANGE FLAG
SENECA DEPOT ACTIVITY NY213820830	ABANDONED POWDER BURN AREA			
RMIS SITE USEAGE:				
SMALL BUFFER ARMS AREA DISPOSAL OBOD RANGE	SKEET	WASTE MILITARY MUNITIONS OTHER	OTHER DESCRIP	TION
DRINKING GROUNDWATER CO WATER DEPTH (FT)	NSTITUENT FLAG <u>UXO DENSITY</u>			
WATER DEPTH (FT)				
		RMIS RANGE ID	RMIS SITE ID	ON RANGE FLAG
WATER DEPTH (FT)	FLAG UXO DENSITY RANGE/SITE NAME	RMIS RANGE ID	RMIS SITE ID	ON RANGE FLAG
WATER DEPTH (FT)	FLAG UXO DENSITY RANGE/SITE NAME 0 BAZOOKA RANGE	RMIS RANGE ID	RMIS SITE ID	<u>ON RANGE FLAG</u>

DRINKING
WATERGROUNDWATER
DEPTH (FT)CONSTITUENT
FLAGUXO DENSITY

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	D	RANGE	SITE NAM	E	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
SENECA DEPOT ACTIVITY NY2	213820830	DEMOL	ITION RAN	GE	SEAD-002-	R	SEAD-002-R-01	Y
RMIS SITE USEAGE: BUFFER AREA DISPOSAL OBOD	SMALL ARMS RANGE	SKEET RANGE	TESTING	TRAINING	WASTE MILITARY MUNITIONS	OTHER	OTHER DESCR	IPTION
N N Y	N	N	N	N	N	N		
DRINKING GROUNDWA WATER DEPTH (F		ISTITUEN FLAG	r UXO DEI	NSITY				
ACTUAL 10		Ν	Lov	v				
INSTALLATION NAME FFI	D	RANG	E/SITE NAM	1E	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
SENECA DEPOT ACTIVITY NY	213820830	E.O.D F	RANGE 1					
RMIS SITE USEAGE: BUFFER	SMALL ARMS	SKEET RANGE			WASTE MILITARY	OTHER	OTHER DESCR	

WATER DEPTH (FT) FLAG UXO DENSITY

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NSTALL	ATION NAME	<u> </u>)	RANGE	E/SITE NAM	1E	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
SENECA D	DEPOT ACTIV	ITY NY2	13820830	E.O.D R	ANGE 2		SEAD-003	R	SEAD-003-R-01	Y
RMIS SITI BUFFER AREA	TE USEAGE: DISPOSAL	OBOD	SMALL ARMS RANGE	SKEET RANGE	TESTING	TRAINING	WASTE MILITARY MUNITIONS	OTHER	OTHER DESCR	IPTION
N	Ν	Y	Ν	N	Ν	Ν	N	N		-
DRINK WAT		OUNDWA DEPTH (F	TER CON	STITUEN FLAG	T UXO DE	NSITY				
ACTU	UAL	10		N	Lov	¥				
-	UAL LATION NAMI		D		Lov E/SITE NAM	-	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
INSTALL		E FFI	_	RANG		-	RMIS RANG		RMIS SITE ID SEAD-004-R-01	ON RANGE FLAC
INSTALL. SENECA I	ATION NAM	E FFI /ITY NY:	_	RANG	E/SITE NAM	ME		R		Y
INSTALL SENECA I RMIS SIT BUFFER	ATION NAMI DEPOT ACTIV FE USEAGE:	E FFI /ITY NY:	213820830 SMALL ARMS	RANG E.O.D I SKEET	E/SITE NAM	ME	SEAD-004 WASTE MILITARY	R	SEAD-004-R-01	Y
INSTALL SENECA I RMIS SIT BUFFER AREA	LATION NAMI DEPOT ACTIV FE USEAGE: DISPOSAL N KING GRO	E FFI /ITY NY: OBOD Y	213820830 SMALL ARMS RANGE Y ATER COM	RANG E.O.D F SKEET RANGE N	E/SITE NAM RANGE 3 TESTING N	ME TRAINING Y	SEAD-004 WASTE MILITARY MUNITIONS	-R OTHER	SEAD-004-R-01	Y

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INSTALLATION NAME FFID	RANGE/SITE NAME	RMIS RANGE ID	RMIS SITE ID	ON RANGE FLAG
SENECA DEPOT ACTIVITY NY213820	830 EXISTING DEACTIVATION FURNACE			
RMIS SITE USEAGE: SMA BUFFER ARM AREA DISPOSAL OBOD RAM	AS SKEET	WASTE MILITARY MUNITIONS OTHER	OTHER DESCR	IPTION
DRINKING GROUNDWATER WATER DEPTH (FT)	FLAG UXO DENSITY	PMIS PANCE ID	PMIS SITE ID	ON DANCE ELAC
Giro Que di Britani	FLAG UXO DENSITY RANGE/SITE NAME	RMIS RANGE ID	RMIS SITE ID	ON RANGE FLAG

 DRINKING
 GROUNDWATER CONSTITUENT

 WATER
 DEPTH (FT)

 FLAG
 UXO DENSITY

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INSTALLA	ATION NAME	E FFI	D	RANGE	SITE NAM	IE	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
SENECA D	DEPOT ACTIV	ITY NY2	213820830	LTA-I 2	٢D		SEAD-005	R	SEAD-005-R-01	Y
RMIS SITI BUFFER AREA	E USEAGE: DISPOSAL	OBOD	SMALL ARMS RANGE	SKEET RANGE	TESTING	TRAINING	WASTE MILITARY MUNITIONS	OTHER	OTHER DESCR	IPTION
N	Ν	N	N	N	N	Y	N	Ν		
DRINK WAT	ER E	DEPTH (F	ATER CON T)	FLAG	UXO DEI					
ACTU	JAL	10		N	Hig	h				
INSTALL	ATION NAM	e ffi	ID	RANG	E/SITE NAM	1E	RMIS RANG	EID	RMIS SITE ID	ON RANGE FLAG
	ATION NAM			RANG		/IE	RMIS RANG SEAD-000		RMIS SITE ID SEAD-006-R-01	ON RANGE FLAG
SENECA D RMIS SIT BUFFER		ITY NY			(111)	<u> </u>		R		N
SENECA E	DEPOT ACTIV TE USEAGE:	ITY NY	213820830 SMALL ARMS	LTA-2	(111)	<u> </u>	SEAD-000 WASTE MILITARY	R	SEAD-006-R-01	N
SENECA E RMIS SIT BUFFER AREA	DEPOT ACTIV TE USEAGE: DISPOSAL N KING GR	VITY NY OBOD N	213820830 SMALL ARMS RANGE N ATER COM	LTA-2 SKEET RANGE N	(III) TESTING N	TRAINING Y	SEAD-000 WASTE MILITARY MUNITIONS	-R OTHER	SEAD-006-R-01	N

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INSTALL	ATION NAME	<u>e ffi</u>	D	RANGE	E/SITE NAM	1E	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
SENECA I	DEPOT ACTIV	TY NY	213820830	LTA-3 (II)		SEAD-007-	R	SEAD-007-R-01	Y
RMIS SIT BUFFER AREA	TE USEAGE: DISPOSAL	OBOD	SMALL ARMS RANGE	SKEET RANGE	TESTING	TRAINING	WASTE MILITARY MUNITIONS	OTHER	OTHER DESCR	IPTION
N	N	Ν	Ν	N	N	Y	Ν	Ν		
DRINE WAT		OUNDWA	ATER CON	STITUEN FLAG	T UXO DE	NSITY				
ACT	UAL	10		N	Lov	×				
INSTALL	ATION NAM	E FF	[D	RANG	E/SITE NAM	ME	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
	DEPOT ACTIV			RANG		ME	RMIS RANG		RMIS SITE ID SEAD-008-R-01	ON RANGE FLAG Y
SENECA	DEPOT ACTIV	VITY NY			(1)			R		Y
SENECA RMIS SIT BUFFER	DEPOT ACTIV	VITY NY	213820830 SMALL ARMS	LTA-4	(1)		SEAD-008 WASTE MILITARY	R	SEAD-008-R-01	Y
SENECA RMIS SIT BUFFER AREA N DRIN	DEPOT ACTIV TE USEAGE: DISPOSAL N KING GR	OBOD N	213820830 SMALL ARMS RANGE N ATER CON	LTA-4 SKEET RANGE N	(I) TESTING N	TRAINING Y	SEAD-008 WASTE MILITARY MUNITIONS	-R OTHER	SEAD-008-R-01	Y

INSTALLA	ATION NAME	E <u>FFI</u>	D	RANG	E/SITE NAM	/IE	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
SENECA D	DEPOT ACTIV	ITY NY	213820830	LTA-4	XD		SEAD-009	-R	SEAD-009-R-01	Y
RMIS SITI BUFFER <u>AREA</u>	E USEAGE: DISPOSAL	OBOD	SMALL ARMS RANGE	SKEET RANGE	TESTING	TRAINING	WASTE MILITARY MUNITIONS	OTHER	OTHER DESCR	IPTION
N	N	N	N	N	Ν	Y	N	N		
DRINK WAT)UNDWA)EPTH (H	ATER CON FT)	ISTITUEN FLAG	T UXO DE	NSITY				
ACTU	JAL	10		N	Lov	*				
	JAL ATION NAMI		ID		Lov E/SITE NAM		RMIS RANG	EID	RMIS SITE ID	ON RANGE FLAG
INSTALLA		E FFI					RMIS RANG		RMIS SITE ID SEAD-010-R-01	ON RANGE FLAG
INSTALLA SENECA D RMIS SITI BUFFER	ATION NAM	<u>e ffi</u> Vity Ny		RANG	E/SITE NAM	ME	SEAD-010 WASTE MILITARY	ŀ-R		Y
INSTALLA SENECA D	ATION NAMI DEPOT ACTIV 'E USEAGE:	<u>e ffi</u> Vity Ny	213820830 SMALL ARMS	RANG LTA-5 SKEET	E/SITE NAM	ME	SEAD-010 WASTE MILITARY	ŀ-R	SEAD-010-R-01	Y
INSTALLA SENECA D RMIS SITI BUFFER AREA	ATION NAMI DEPOT ACTIV TE USEAGE: DISPOSAL N KING GRO	E FFI VITY NY OBOD N	213820830 SMALL ARMS RANGE N ATER COM	RANG LTA-5 SKEET RANGE N	E/SITE NAM TESTING N	ME TRAINING Y	SEAD-010 WASTE MILITARY MUNITIONS	OTHER	SEAD-010-R-01	Y

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INSTALL	ATION NAME	<u> </u>	D	RANGE	SITE NAM	IE	RMIS RANG	EID	RMIS SITE ID	ON RANGE FLAG
SENECA I	DEPOT ACTIV	ITY NY	213820830	LTA-6			SEAD-011-	R	SEAD-011-R-01	Y
RMIS SIT BUFFER AREA	'E USEAGE: DISPOSAL	OBOD	SMALL ARMS RANGE	SKEET RANGE	TESTING	TRAINING	WASTE MILITARY MUNITIONS	OTHER	OTHER DESCR	IPTION
N	N	N	Ν	Ν	Ν	Y	Ν	Ν		
DRINK		OUNDWA	ATER CON	STITUEN FLAG	T UXO DEI	NSITY				
ACTU	UAL	10		N	Lov	v				
INSTALL	ATION NAMI	e <u>ar</u> 3	ID	RANG	E/SITE NAN	1E	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
	ATION NAMI DEPOT ACTIV			RANG	E/SITE NAM	<u>1E</u>	RMIS RANG SEAD-012		RMIS SITE ID SEAD-012-R-01	ON RANGE FLAG
SENECA I	DEPOT ACTIV	TTY NY					SEAD-012 WASTE MILITARY	-R		Y
SENECA I RMIS SIT BUFFER	DEPOT ACTIV	TTY NY	213820830 SMALL ARMS	LTA-7			SEAD-012 WASTE MILITARY	-R	SEAD-012-R-01	Y
SENECA I RMIS SIT BUFFER AREA	DEPOT ACTIV TE USEAGE: DISPOSAL N KING GRO	OBOD	213820830 SMALL ARMS RANGE N ATER COM	LTA-7 SKEET RANGE N	TESTING N	TRAINING Y	SEAD-012 WASTE MILITARY MUNITIONS	-R OTHER	SEAD-012-R-01	Y

INSTALLA	TION NAME	FFI	<u>D</u>	RANGE	SITE NAM	Έ	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
SENECA DI	EPOT ACTIV	ITY NY	213820830	LTA-IV			SEAD-013-	R	SEAD-013-R-01	Y
RMIS SITE BUFFER AREA	E USEAGE: DISPOSAL	OBOD	SMALL ARMS RANGE	SKEET RANGE	TESTING	TRAINING	WASTE MILITARY MUNITIONS	OTHER	OTHER DESCR	IPTION
N	N	N	N	N	N	Y	N	N		
			TER CON	STITUEN	Г					
DRINKI WATE ACTU	ER D	ЕРТН (I 10		FLAG N	UXO DEN Low					
WATE ACTU	ER D	EPTH (I 10	T)	FLAG N	UXO DEN	/	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
WATH ACTU, INSTALLA	E R D	EPTH (I 10 E FF)	T)	FLAG N RANGI OPEN I	UXO DEN Low	/ 1E	RMIS RANG	EID	RMIS SITE ID	ON RANGE FLAG

DRINKINGGROUNDWATER CONSTITUENTWATERDEPTH (FT)FLAGUXO DENSITY

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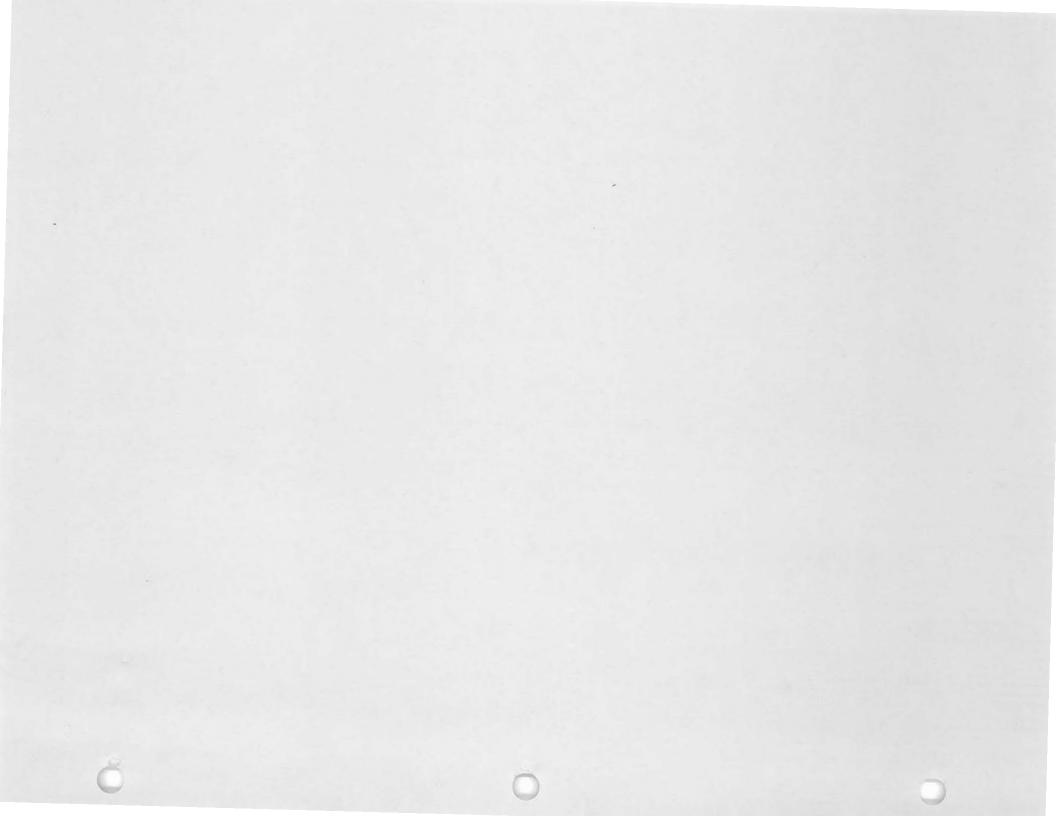
INSTALLAT	TION NAME	FFI)	RANGE	SITE NAM	Е	RMIS RANGE		RMIS SITE ID	ON RANGE FLAG
SENECA DE	EPOT AC TI VI	TY NY2	13820830		BURN/OPEN	OUNDS				
RMIS SITE BUFFER AREA	USEAGE:	OBOD	SMALL ARMS RANGE	SKEET RANGE	TESTING	TRAINING	WASTE MILITARY MUNITIONS	OTHER	OTHER DESCR	RIPTION
DRINKI WATE			TER CON		-					
		EPTH (F		FLAG	UXO DEN			E ID	PMIS SITE ID	
INSTALLA	TION NAME	<u> </u>	D	RANG	<u>UXO DEN</u> E/SITE NAM GRENADE R	IE	RMIS RANG SEAD-014		RMIS SITE ID SEAD-014-R-01	ON RANGE FLAG Y
INSTALLA	TION NAME EPOT ACTIV	E <u>ffi</u> ITY NY2	D	RANG	E/SITE NAM GRENADE R	IE RANGE	SEAD-014 WASTE MILITARY	-R		Y
INSTALLA SENECA DI RMIS SITE BUFFER	EPOT ACTIV	E <u>ffi</u> ITY NY2	D213820830 SMALL ARMS	RANG RIFLE SKEET	E/SITE NAM GRENADE R	IE RANGE	SEAD-014 WASTE MILITARY	-R	SEAD-014-R-01	Y
INSTALLA SENECA DI RMIS SITE BUFFER AREA	TION NAME EPOT ACTIV E USEAGE: DISPOSAL N ING GRO	E FFI ITY NY2 OBOD N	D 213820830 SMALL ARMS RANGE N ATER COM	RANG RIFLE SKEET RANGE N	E/SITE NAM GRENADE R TESTING N	IE RANGE TRAINING Y	SEAD-014 WASTE MILITARY MUNITIONS	OTHER	SEAD-014-R-01	Y

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NSTALLA	ATION NAME	e FFII	D	RANGE	SITE NAM	<u>IE</u>	RMIS RANG	E ID	RMIS SITE ID	ON RANGE FLAG
SENECA DEPOT ACTIVITY NY213820830			SAMPSON RIFLE RANGE			SEAD-015-R		SEAD-015-R-01	Y	
RMIS SITE BUFFER AREA	E USEAGE: DISPOSAL	OBOD	SMALL ARMS RANGE	SKEET RANGE	TESTING	TRAINING	WASTE MILITARY MUNITIONS	OTHER	OTHER DESCR	IPTION
N	N	N	Y	N	N	N	N	Ν		
DRINK WAT		OUNDWA DEPTH (F	TER CON	STITUEN FLAG	r UXO DEI	NSITY				
ACTU	JAL	10		N	Hig	h				
INSTALLATION NAMEFFID			RANGE/SITE NAME			RMIS RANGE ID		RMIS SITE ID	ON RANGE FLA	
SENECA I	DEPOT ACTIV	/ITY NY	213820830	SAMPS I	SON RIFLE I	RANGE X D	SEAD-016	-R	SEAD-016-R-01	Y
RMIS SIT	TE USEAGE:		SMALL ARMS	SKEET			WASTE MILITARY			
BUFFER AREA	DISPOSAL	OBOD	RANGE	RANGE	TESTING	TRAINING	MUNITIONS	OTHER	OTHER DESCI	RIPTION
	DISPOSAL N	OBOD N		RANGE N	TESTING N	TRAINING N		OTHER N	OTHER DESCI	RIPTION
AREA	N KING GR	N	RANGE N ATER COM	N	Ň	N	MUNITIONS		OTHER DESCI	RIPTION

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DSERTS Information Table

INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	40 MM GRENADE RANG	GE XD	SEAD-118	SEAD-001-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
Y	Y	MR	RAO	N	
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	ABANDONED DEACTI FURNACE	VATION	SEAD-16	
DSERTS CTC	DSERTS SITE ID HAS	DERP		RESPONSE	
INCLUDES UXO-DMM	BRAC UXO FLAG	ELIGIBILITY	DSERTS PHASE	COMPLETE FLAG	REASON
INCLUDES UXO-DMM Y	BRAC UXO FLAG N	ELIGIBILITY IR	DSERTS PHASE RAC	N	REASON
					REASON RMIS SITE ID
Y	N FFID	IR	RAC	N	
Y INSTALLATION NAME	N FFID	IR RANGE/SITE NAME ABANDONED POWDE	RAC	N DSERTS SITE ID SEAD-24 RESPONSE	

DSERTS Information Table

INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	BAZOOKA RANGE		SEAD-46	
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
Y	N	IR	RAC	N	
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	DEMOLITION RANGE			SEAD-002-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	E.O.D RANGE 1		SEAD-57	
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
Y	N	IR	RD	N	

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INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	E.O.D RANGE 2		SEAD-118	SEAD-003-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
Y	Y	MR	RAC	N	
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	E.O.D RANGE 3		SEAD-118	SEAD-004-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
Y	Y	MR	RAC	Ν	
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	EXISTING DEACTIVA' FURNACE	TIO N	SEAD-17	
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
Y	N	IR	RAC	N	

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INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	FUNCTION TEST RANG	GE XD	SEAD-44	
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
Y	N	IR	RAO	N	
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	LTA-I XD			SEAD-005-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	LTA-2 (III)			SEAD-006-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON

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INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	LTA-3 (II)			SEAD-007-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	LTA-4 (I)			SEAD-008-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	LTA-4 XD			SEAD-009-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON

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INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	LTA-5			SEAD-010-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	LTA-6			SEAD-011-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	LTA-7			SEAD-012-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON

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INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	LTA-IV			SEAD-013-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	OPEN BURN/OPEN DE GROUNDS	TONATION	SEAD-45	
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
Y	N	IR	RAC	N	
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	OPEN BURN/OPEN DE GROUNDS	TONATION	SEAD-23	
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
Y	N	IR	RAC	N	

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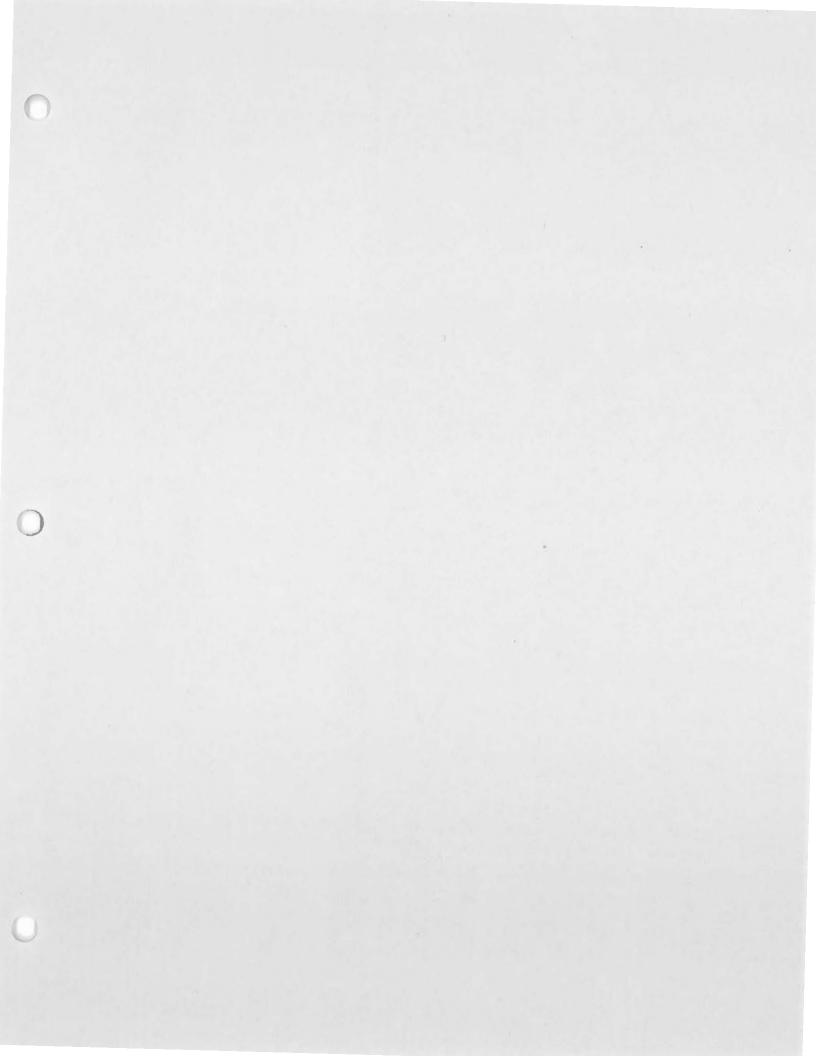
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INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	RIFLE GRENADE RANG	GE	SEAD-118	SEAD-014-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
Y	Y	MR	RAC	N	
INSTALLATION NAME	FFID	RANGE/SITE NAME		DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	SAMPSON RIFLE RANG	GE		SEAD-015-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON
INSTALLATION NAME	FFID	RANGE/SITE NAME	<u> </u>	DSERTS SITE ID	RMIS SITE ID
SENECA DEPOT ACTIVITY	NY213820830	SAMPSON RIFLE RAN	GE X D I		SEAD-016-R-01
DSERTS CTC INCLUDES UXO-DMM	DSERTS SITE ID HAS BRAC UXO FLAG	DERP ELIGIBILITY	DSERTS PHASE	RESPONSE COMPLETE FLAG	REASON

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G. RISK ASSESSMENT CODE (RAC) ANALYSIS

As part of the CTT Inventory, the data collection team performed an assessment of explosives safety risk using the RAC process. 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. The following is a description of the RAC scores.

RAC 1	High Explosives S	Safety Risk -	Highest	priority for	r further action.
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- 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.

Installation	Range or Site Name	Acres	Severity*	Probability**	RAC Score
SEAD	40mm Grenade Range XD	21.8	V	E	5
SEAD	Abandoned Deactivation Furnace	5.0		В	3
SEAD	Abandoned Powder Burn Area	1.2	NA	NA	NA
SEAD	Bazooka Range	32.5		В	2
SEAD	Demolition Range	40.1	11	В	2
SEAD	EOD Range 1	193.6	J	В	1
SEAD	EOD Range 2	5.3	П	С	3
SEAD	EOD Range 3	0.4		В	2
SEAD	Existing Deactivation Furnace	5.0		В	3
SEAD	Function Test Range XD	15.1	V	E	5
SEAD	LTA-1 XD	8.2	V	E	5
SEAD	LTA-2 (III)	319.9	111	В	3
SEAD	LTA-3 (II)	151.0	111	В	3
SEAD	LTA-4 (I)	906.7		В	3
SEAD	LTA-4 XD	172.0	111	В	3

Table G-1: Risk Assessment Code Analysis Results

Installation	Range or Site Name	Acres	Severity*	Probability**	RAC Score
SEAD	LTA-5	48.4	11	В	3
SEAD	LTA-6	380.3	111	В	3
SEAD	LTA-7	183.0	111	В	3
SEAD	LTA-IV	188.0		B	3
SEAD	Open Burn/Open Detonation Grounds	364.3	I	В	1
SEAD	Rifle Grenade Range	49.8	11	В	2
SEAD	Sampson Rifle Range	159.4	v	ε	5
SEAD	Sampson Rifle Range XD1	3.7	V	E	5

* Severity - 5 possible classifications from I (catastrophic) to V (none).

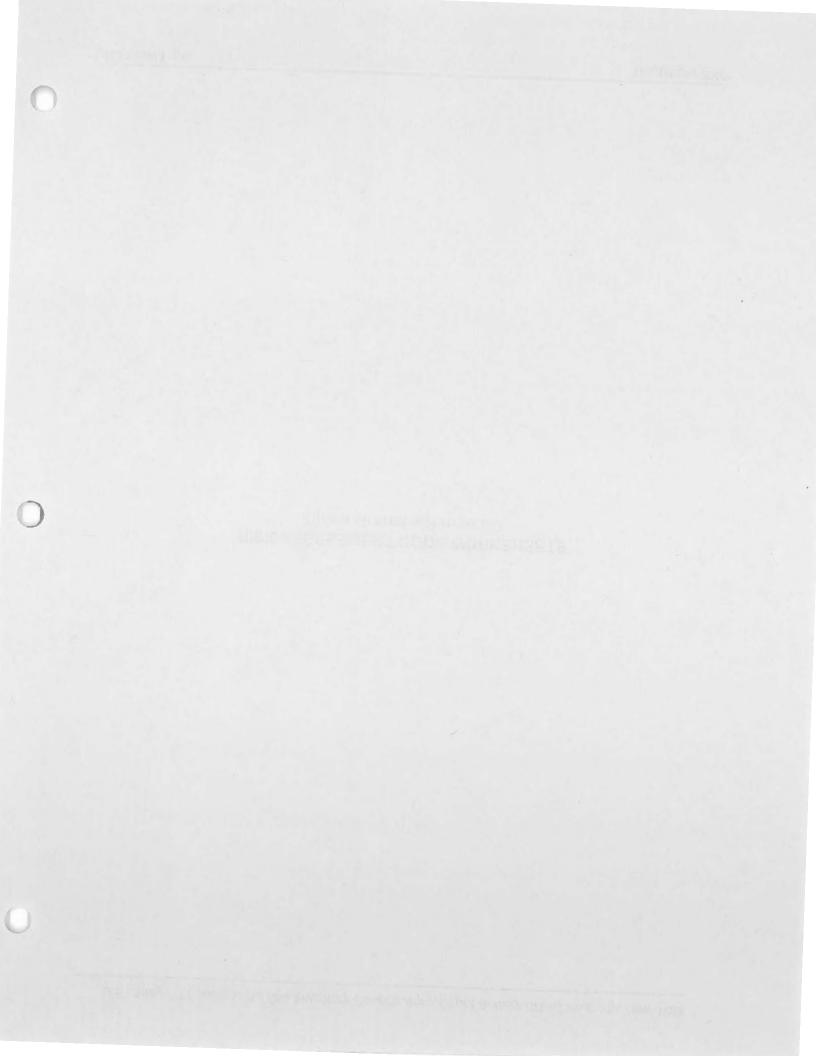
** Probability - 5 possible classifications from A (frequent) to E (improbable).

***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.

U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

RISK ASSESSMENT CODE WORKSHEETS 40mm Grenade Range XD

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	40 mm Grenade Range XD	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Transferred	Organization	URS Group, Inc.
Date Completed	July 2002	Score	5

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 cal50 cal)	
	Small arms, expended	0
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	0
	What with the density have been also as t_{i} as t_{i} and t_{i}	

What evidence do you bave regarding conventional UXO?

Site has been scraped to a depth of 1 ft. and soil sifted to remove UXO, and then all

remaining geophysical anomalies to a depth of 4 ft. were excavated and destroyed. I	No
UXO remains.	

Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value) What evidence do you have regarding pyrotechnics?	
What evidence do you have regarding pyrotechnics? No evidence.	
No evidence.	
Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized): Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	VALUE
mercury azide, mercury fulminate, tetracene, etc.) Demolition charges Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	, 10 10
HMX, HBX, Black Powder, etc.) Military dynamite Less sensitive explosives (ammonium nitrate, Explosive D, etc.)	8 6
High explosives (select the single largest value)	- 0
What evidence do you have regarding bulk explosives?	
No evidence.	
Bulk propellants (not an integral part of rockets, guided missiles, or other	
conventional ordnance; uncontainerized): Solid or liquid propellants	VALUE
Solid or liquid propellants Propellants	VALUE 6 0
Solid or liquid propellants	6
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants?	6
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? No evidence. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister)	6 VALUE 25
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? No evidence. Chemical Warfare Materiel (CWM) and Radiological Weapons:	6
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? No evidence. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets	6 0 VALUE 25 20
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? No evidence. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vorniting, tear)	6 VALUE 25 20 15 5

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

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Apply this value to Table 1 to determine Hazard Severity Category

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)

Α.	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)	0

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	he
	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)	0
	What are the nearest inhabited structures/buildings?	

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 2 6 to 10 1 to 5 1 0 0 0 Number of buildings (select the single largest value) Narrative:

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:	

E.	Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALUE 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. Security guard, but no barrier	3 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)	0
	Describe the site accessibility:	

 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

 Describe the site dynamics:
 0

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

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

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

TABLE 2HAZARD PROBABILITY

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.

TABLE 3						
RISK ASSESSMENT						
PROBABILI	T <u>Y</u>	FREQUENT	PROBABLE	OCCASIONAL	<u>REMOTE</u>	<u>IMPROBABLE</u>
LEVEL		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	Ē
SEVERITY						
CATEGORY:				_	<i>.</i>	,
CATASTROPH	IC I	1	1	2	3	-1
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.

Risk is based on excavation and removal of UXO. No munitions remain.

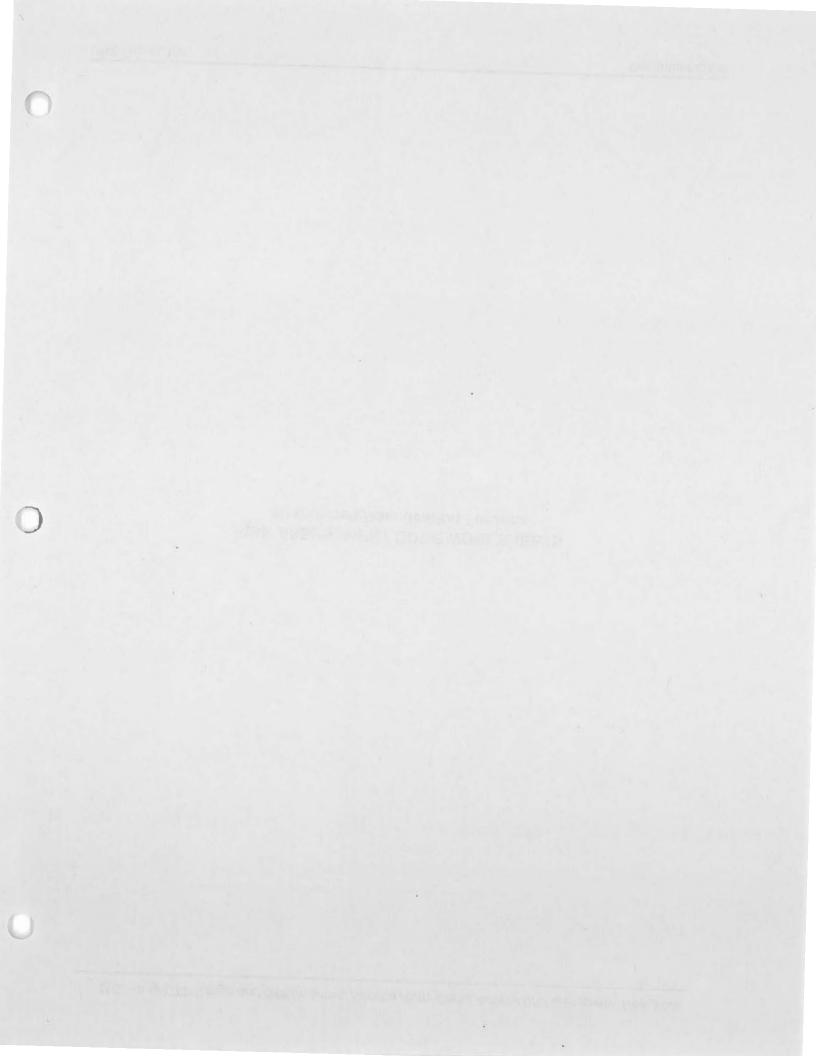
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U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

RISK ASSESSMENT CODE WORKSHEETS Abandoned Deactivation Furnace

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	Abandoned Deactivation Furnace	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	_(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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 cal50 cal)	1
Small arms, expended	$\overline{0}$
Practice ordnance (w/o spotting charges)	0
Conventional ordnance and ammunition (largest single value)	1
What evidence do you have regarding conventional UXO?	

ASR noted that ammunition and casing was abundant around SEAD-17.

	Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other than WP)	
	Pyrotechnics (select the single largest value) What evidence do you have regarding pyrotechnics?	
	Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized):	VALU
	Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin, mercury azide, mercury fulminate, tetracene, etc.) Demolition charges Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	. I
	HMX, HBX, Black Powder, etc.) Military dynamite Less sensitive explosives (ammonium nitrate, Explosive D, etc.)	
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives?	
	Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants?	VALU
	Chemical Warfare Materiel (CWM) and Radiological Weapons: Foxic chemical agents (choking, nerve, blood, blister)	VALUI 2:
1	War Gas Identification Sets Radiological	20 15
J	Riot Control Agents (vomiting, tear) Chemical and Radiological (select the single largest value)	

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Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1: HAZARD SEVERITY*

CATEGORY	HAZARD SEVERITY VALUE
I	21 and/or greater
II	10 to 20
III	5 to 9
IV	1 to 4
V	0
	I II III

**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) -

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

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

в.	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 persent in babied structures/buildings?			

What are the nearest inhabited structures/buildings?

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)	5	
	Narrative:		

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.	9	3
	Detention, correctional		2
	No buildings		0
	Types of buildings (select the single largest value)		5
	Describe the types of huildings:		

Describe the types of buildings:

Accessibility to site refers to access by humans to ordnance and explo Use the following guidance: No barrier nor security system	vsives. VALUE
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)	5
Describe the site accessibility:	

Site Dynamics. This deals with site conditions that are subject to change in the F. 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 None anticipated Site Dynamics (select the single largest value) Describe the site dynamics:

5 0

0

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

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT	А	27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	C	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	Е	less than 8

TABLE 2HAZARD PROBABILITY

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.

TABLE 3 RISK ASSESSMENT						
PROBABILITY	FREQUENT	PROBABLE	<u>OCCASIONAL</u>	<u>REMOTE</u>	<u>IMPROBABLE</u>	
LEVEL	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	
SEVERITY						
CATEGORY:						
CATASTROPHIC I	I	1	2	3	4	
CRITICAL II	l	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.

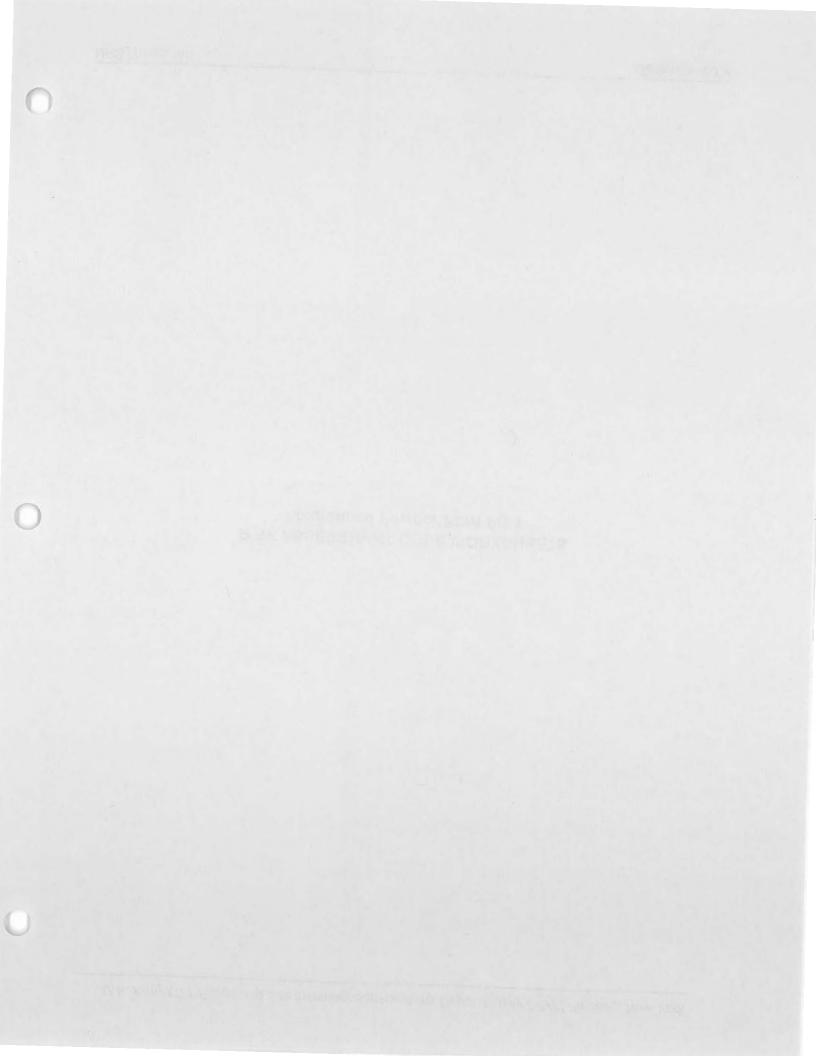
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U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

RISK ASSESSMENT CODE WORKSHEETS Abandoned Powder Burn Area

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	Abandoned Powder Burn Area	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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)

А.	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)	+
	Landmine, practice (w/spotting charges)	4
	Small arms, complete round (.22 cal50 cal)	1
	Small arms, expended	0
	Practice ordnance (w/o spotting charges)	()
	Conventional ordnance and ammunition (largest single value)	0
	What evidence do you have regarding conventional UXO?	

No UXO-DMM or OE was observed by the ASR team.

	Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm,	VALU
	Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value)	
	What evidence do you have regarding pyrotechnics?	
	No UXO-DMM or OE was observed by the ASR team.	
	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.) Military dynamite	8
]	Less sensitive explosives (ammonium nitrate, Explosive D, etc.) High explosives (select the single largest value)	3
	What evidence do you have regarding hulk explosives?	
	What evidence do you have regarding hulk explosives? Area was apparently used for OB of propellants.	
	Area was apparently used for OB of propellants.	
-	Area was apparently used for OB of propellants.	VALUE
	Area was apparently used for OB of propellants. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized):	VALUE
	Area was apparently used for OB of propellants. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants	VALUE
· · · · · · · · · · · · · · · · · · ·	Area was apparently used for OB of propellants. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants?	6
		6
	Area was apparently used for OB of propellants. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Site name indicates that it was used for OB of propellants. No other informati available.	6
	Area was apparently used for OB of propellants. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Site name indicates that it was used for OB of propellants. No other informati available. Chemical Warfare Materiel (CWM) and Radiological Weapons:	6
	Area was apparently used for OB of propellants. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Site name indicates that it was used for OB of propellants. No other informati available. Chemical Warfare Materiel (CWM) and Radiological Weapons: foxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets	6 ion is VALUE 25 20
	Area was apparently used for OB of propellants. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Site name indicates that it was used for OB of propellants. No other informati available. Chemical Warfare Materiel (CWM) and Radiological Weapons: foxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological	6
	Area was apparently used for OB of propellants. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Site name indicates that it was used for OB of propellants. No other informati available. Chemical Warfare Materiel (CWM) and Radiological Weapons: foxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)	6 ion is VALUE 25 20
	Area was apparently used for OB of propellants. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Site name indicates that it was used for OB of propellants. No other informati available. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear) Chemical and Radiological (select the single largest value)	••••••••••••••••••••••••••••••••••••••
	Area was apparently used for OB of propellants. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Site name indicates that it was used for OB of propellants. No other informati	6 6 ion is VALUE 25 20 15 5 0

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TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): ___6__ (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1: HAZARD SEVERITY*

DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE			
CATASTROPHIC	I	21 and/or greater			
CRITICAL	II	10 to 20			
MARGINAL	111	5 to 9			
NEGLIGIBLE	IV	l 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. 					

1

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)

А.	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?

в.	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?	

VALUE

5

4 3

2

1

0 5

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

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)	5
	Description of the state of the	

.....

Describe the types of buildings:

Accessibility to site refers to access by humans to ordnance and explos Use the following guidance: No barrier nor security system	sives. VALUE		
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).			
Accessibility (select the single largest value)	5		
Describe the site accessibility:			

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 VALUE distances from the site to inhabited areas or otherwise increase accessibility. Expected None anticipated Site Dynamics (select the single largest value)

5 0

0

Describe the site dynamics:

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

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

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT	A	27 or greater
PROBABLE	B	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	E	less than 8

TABLE 2HAZARD PROBABILITY

25

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.

TABLE 3								
RISK ASSESSMENT								
PROBABILI	ΤY	FREQUENT	PROBABLE	OCCASIONAL	<u>REMOTE</u>	IMPROBABLE		
<u>LEVEL</u>		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>		
SEVERITY								
CATEGORY:								
CATASTROPH	IC I	1	1	2	3	4		
CRITICAL	II	1	2	3	4	5		
MARGINAL	III	2	3	4	4	5		
NEGLIGIBLE	ĬV	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.

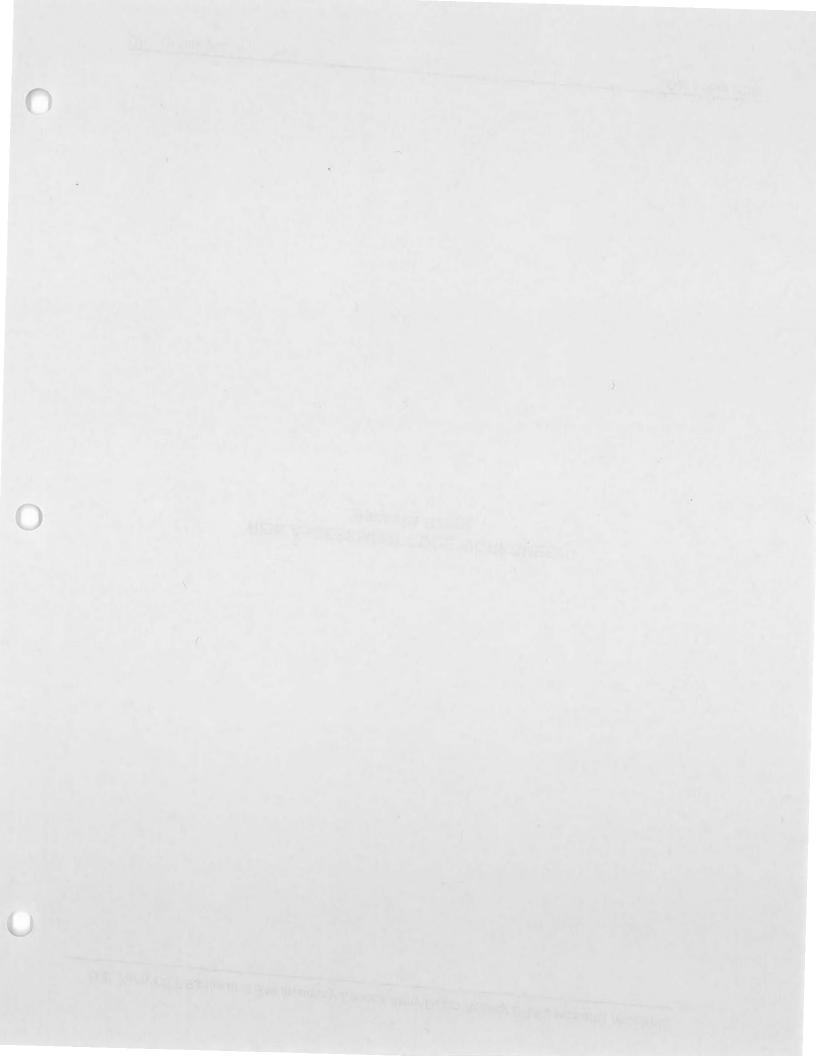
This site appears on several installation maps and can be seen on 1950–1960 air photos. No evidence of burns were visible at the time the ASR team visited the site.

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U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

RISK ASSESSMENT CODE WORKSHEETS Bazooka Range

10



THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	Bazooka Range	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	Score	2

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)

Α.	Conventional ordnance and ammunition:	VALUE
	Medium/large caliber (20mm and larger)	01
	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 cal50 cal)	1
	Small arms, expended	$\overline{0}$
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	10
	What evidence do you have regarding conventional UXO?	

3.5 in. rocket, MK-2 grenades, and expended small arms ammunition found by EE/CA.

	Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other byrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Friethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value) What evidence do you have regarding pyrotechnics?	VALU
÷	EE/CA found live flares.	
	Bulk High Explosives (not an integral part of conventional rdnance; uncontainerized):	VALU
D	rimary or initiating explosives (lead styphnate, lead azide, nitroglycerin, hercury azide, mercury fulminate, tetracene, etc.)	, 1
S E	econdary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, MX, HBX, Black Powder, etc.) Iilitary dynamite	
L	ess sensitive explosives (ammonium nitrate, Explosive D, etc.) (igh explosives (select the single largest value)	
v _	hat evidence do you have regarding bulk explosives?	
- - B	ulk propellants (not an integral part of rockets, guided missiles, or other	
co Se	onventional ordnance; uncontainerized): blid or liquid propellants	VALU.
co So Pi	nventional ordnance; uncontainerized):	VALU
CC S(P) W	onventional ordnance; uncontainerized): olid or liquid propellants copellants /hat evidence do you have regarding bulk propellants?	
Ci Si Pi W Ci Ti W Ra	onventional ordnance; uncontainerized): olid or liquid propellants copellants	VALU. VALUI 2 24 1.

4

TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): <u>14</u> (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

		SEVENTI	
DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE	
CATASTROPHIC	I	21 and/or greater	
CRITICAL	II	10 to 20	
MARGINAL	I II	5 to 9	
NEGLIGIBLE	IV	1 to 4	
**NONE	V	0	
* Anniv Hazard Severity Calegory	to Table 3		

TABLE 1: HAZARD SEVERITY*

ategory to Table 3. pply Hazard Seventy C

**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. ۰.

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?

Ten UXO items found during EE/CA, including 3.5 in. rocket, flares, rifle grenades. Items
were found on surface and shallow subsurface.

5

4 3

2

1

5

Distance to nearest inhabited location/structure likely to be at risk from the **B**. VALUE UXO or OE hazard (road, park, playground, building, etc.): Less than 1,250 feet 1,250 feet to 0.5 mile 0.5 mile to 1.0 mile 1.0 mile to 2.0 Miles

Over 2 miles Distance (select the single largest value) What are the nearest inhabited structures/buildings?

Houses and commercial buildings of town of Romulus.

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)	5
	Narrative:	

High number of buildings: town of Romulus, SEAD structures.

D.	Types of Buildings (within a 2 mile radius):	VALUE
	Educational, child care, residential, hospitals hotels, commercial,	E
	shopping centers	2
	Industrial, warehouse, etc.	4
	Agricultural, forestry, etc.	3
	Detention, correctional	2
	No buildings	0
	Types of buildings (select the single largest value)	5
	Describe the types of buildings:	
	Schools, residences, commercial.	

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Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALUE S
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)	5
Describe the site accessibility:	
No range fence. Installation is fenced, gated, guarded.	

 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

Describe the site dynamics:

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

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

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT	А	27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	C	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	E	less than 8

TABLE 2				
HAZARD PROBABILITY				

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.

TABLE 3 RISK ASSESSMENT					
PROBABILITY	FREQUENT	PROBABLE	<u>OCCASIONAL</u>	REMOTE	<u>IMPROBABLE</u>
LEVEL	A	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>
SEVERITY					
CATEGORY:					
CATASTROPHIC I	l	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.

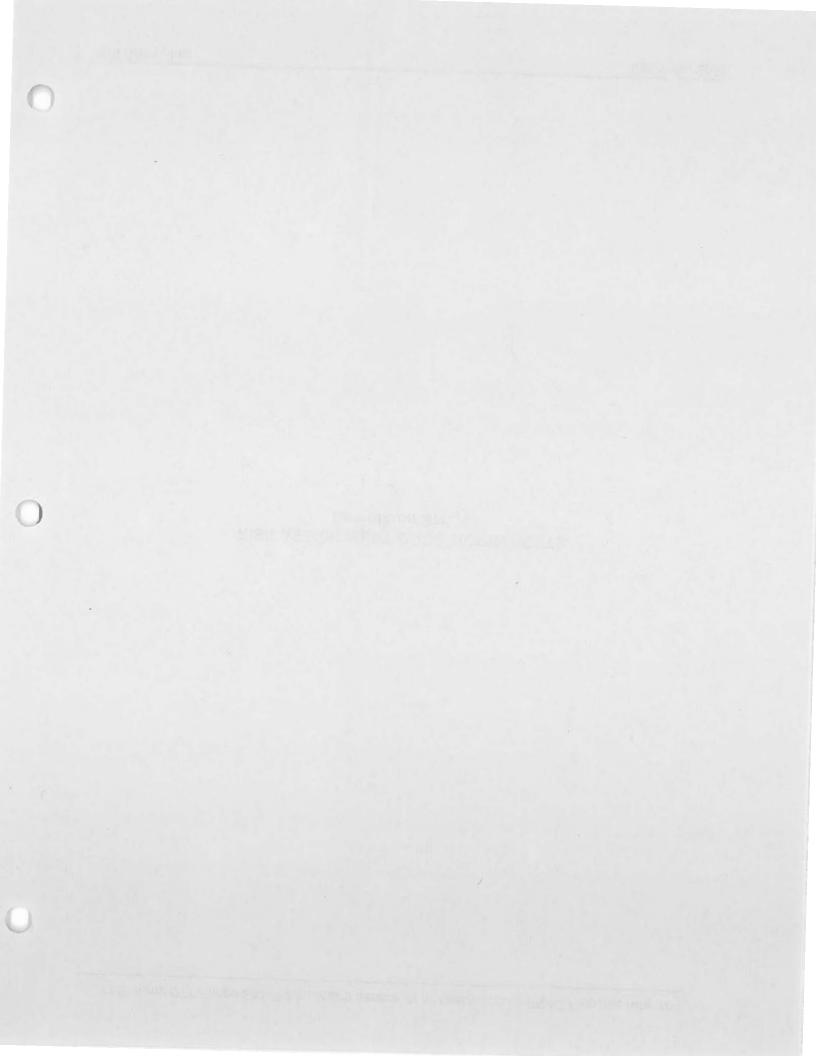
Risk is based on discovery of UXO by EE/CA.

<u>25</u>

U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

RISK ASSESSMENT CODE WORKSHEETS Demolition Range

1



THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	Demolition Range	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	Score	2

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 cal50 cal)	1
Small arms, expended	$\overline{0}$
Practice ordnance (w/o spotting charges)	0
Conventional ordnance and ammunition (largest single value)	1
What evidence do you have regarding conventional UXO?	

ASR states that small arms ammunitions was destroyed at this site.

	Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other	VAL
	pyrophoric material (i.e., spontaneously flammable)	
	Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries)	
	Flares, signals, simulators, screening smokes (other than WP)	
	Pyrotechnics (select the single largest value)	
	What evidence do you have regarding pyrotechnics?	
	ASR states that flare remnants litter area.	
		·
	Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized):	VALU
	Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	
	mercury azide, mercury fulminate, tetracene, etc.)	
	Demolition charges Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	
	HMX, HBX, Black Powder, etc.)	
]	Military dynamite	
	Less sensitive explosives (ammonium nitrate, Explosive D, etc.)	
	High explosives (select the single largest value)	
1	What evidence do you have regarding bulk explosives? Based on ASR. Demolition charges were used to detonate munitions.	
F	Sulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized): olid or liquid propellants Propellants What evidence do you have regarding bulk propellants?	VALU
_		
	hemical Warfare Materiel (CWM) and Radiological Weapons:	VALU
	oxic chemical agents (choking, nerve, blood. blister) /ar Gas Identification Sets	2
	adiological	1
	iot Control Agents (vorniting, tear)	
	hemical and Radiological (select the single largest value)	
	hat evidence do you have regarding chemical or radiological?	
W		
м 		

Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1: HAZARD SEVERITY*

<u>DESCRIPTION</u> CATASTROPHIC	<u>CATEGORY</u> I	HAZARD SEVERITY VALUE 21 and/or greater
CRITICAL	II	10 to 20
MARGINAL	III	5 to 9
NEGLIGIBLE	IV	1 to 4
**NONE	V	0
	. T. L. 1. 1	

* 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)

А.	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?

One 75 mm shell that had been blown with shaped charge found at site. Site is poorly documented.

B.	Distance to nearest inhabited location/structure likely to be at risk from th	e
	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	<u> </u>
	Distance (select the single largest value)	3
	What are the nearest inhabited structures/buildings?	

Houses and farms on west side of installation.

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
	I to 5	1
	0	0
	Number of buildings (select the single largest value)	5

Narrative:

High number of buildings: Juvenile Detonation Center, state park, private structures, SEAD structures.

	Types of Buildings (within a 2 mile radius): Educational, child care, residential, hospitals hotels, commercial, shopping centers Industrial, warehouse, etc. Agricultural, forestry, etc. Detention, correctional No buildings Types of buildings (select the single largest value)	VAI
	Describe the types of buildings:	
	State park facilities, residences, Kid's Peace.	
	Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VAL
	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.	
	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.	
,	Security guard, but no barrier	
	Isolated site	
: () () () () () () () () () () () () ()	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).	
ł	Accessibility (select the single largest value)	
l	Describe the site accessibility:	
_	Demolition Range has no separate fence. Installation is fenced, gated, guarded.	
S	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	VALI

Describe the site dynamics:

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

23

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

TABLE 2 HAZARD PROBABILITY HAZARD PROBABILITY VALUE LEVEL DESCRIPTION 27 or greater FREQUENT A 21 to 26 В PROBABLE 15 to 20 С OCCASIONAL 8 to 14 D REMOTE less than 8 **IMPROBABLE** Ε *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.

			TABL	E 3		
			RISK ASSES	SMENT		
PROBABILI	TY	FREQUENT	PROBABLE	<u>OCCASIONAL</u>	<u>REMOTE</u>	<u>IMPROBABLE</u>
LEVEL		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>
SEVERITY						
CATEGORY:				_		,
CATASTROPH	IIC I	I	1	2	3	4
CRITICAL	11	1	2	3	4	5
MARGINAL	Ш	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. Demolition Range was documented in the ASR and an EE/CA.

U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

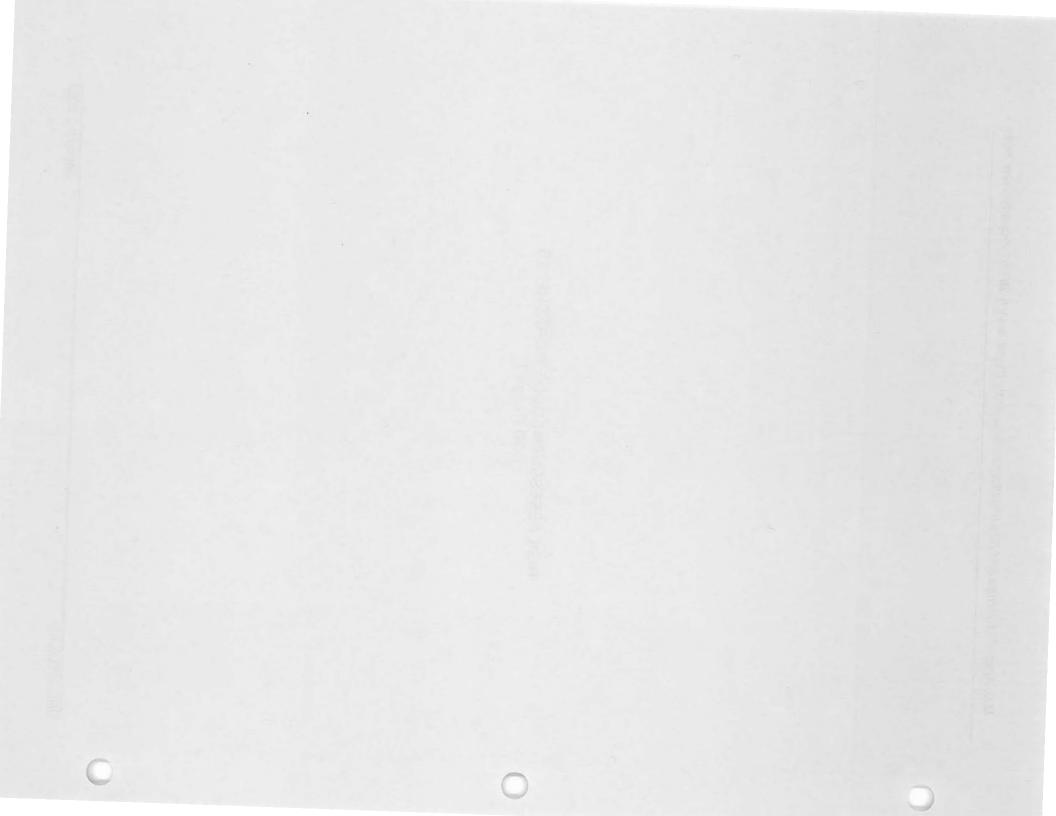
RISK ASSESSMENT CODE WORKSHEETS EOD Range 1

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	EOD Range 1	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	Score	1

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 cal50 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?	
	Findings of FF/CA investigation UVO discovered on surface	

Findings of EE/CA investigation - UXO discovered on surface.

	Pyrotechnics (for munitions not described above):	VALU
	Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable)	
	Munition containing a flame or incendiary material (i.e., Napalm,	
	Triethylaluminum metal incendiaries)	
	Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value)	
	What evidence do you have regarding pyrotechnics?	
	EE/CA and ASR noted flares/flare remnants in area.	
	Bulk High Explosives (not an integral part of conventional	
	ordnance; uncontainerized): Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	VALU
	mercury azide, mercury fulminate, tetracene, etc.)	
	Demolition charges	
:	Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	
	HMX, HBX, Black Powder, etc.)	
	Military dynamite	
	Less sensitive explosives (ammonium nitrate, Explosive D, etc.) High explosives (select the single largest value)	
	What evidence do you have regarding bulk explosives?	
1	Based on ASR. Demolition charges were used to dctonate munitions.	
-		
	Bulk propellants (not an integral part of rockets, guided missiles, or other	VALU
	onventional ordnance; uncontainerized): folid or liquid propellants	VALU
	ropellants	
	Vhat evidence do you have regarding bulk propellants?	
C	Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALU
	oxic chemical agents (choking, nerve, blood, blister)	2
-	Var Gas Identification Sets	2
	adiological iot Control Agents (vomiting, tear)	1
	hemical and Radiological (select the single largest value)	
W	hat evidence do you have regarding chemical or radiological?	
_		
_		

Apply this value to Table 1 to determine Hazard Severity Category

DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE	
CATASTROPHIC	Ι	21 and/or greater	
CRITICAL	II	10 to 20	
MARGINAL	III	5 to 9	
NEGLIGIBLE	IV	1 to 4	
**NONE	v	0	
was a transformer to descent	to Table ?		

TABLE 1: HAZARD SEVERITY*

* 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) .

Locations of UXO and OE hazards:	VALUE
On the surface	5
Within tanks, pipes, vessels, or other confined areas	
Inside walls, ceilings, or other building/structure Subsurface	3
Location (select the single largest value)	≓ 5
	2
What evidence do you have regarding the location of UXO and OE?	
Munitions remnants found on-surface.	
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	+
0.5 mile to 1.0 mile	3
1.0 mile to 2.0 Miles	2
Over 2 miles	<u> </u>
Distance (select the single largest value)	3
What are the nearest inhabited structures/buildings?	
Houses and farms on west side of installation.	
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)	5
Narrative:	
High number of buildings: Juvenile Detonation Center, state park, private stru	ctures,
SEAD structures.	

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.	5 4 3 2
	Detention, correctional	2
	No buildings	0
	Types of buildings (select the single largest value)	5
	Describe the types of buildings:	
	State park facilities, residences.	

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E.	Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALUE , S
	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. Security guard, but no barrier	3
	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)	5
	Describe the site accessibility:	

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)	Ö
	Describe the site dynamics:	

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

HAZARD PROBABILITY				
DESCRIPTION	LEVEL	HAZARD PROBABILITY VALUE		
FREQUENT	A	27 or greater		
PROBABLE	B	21 to 26		
OCCASIONAL	С	15 to 20		
REMOTE	D	8 to 14		
IMPROBABLE	Ë	less than 8		
*Apply Hazard Probability	Level to Table 3.	•		

TABLE 2

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.

			RISK ASSES			
PROBABILI	ΤY	FREQUENT	PROBABLE	OCCASIONAL	<u>REMOTE</u>	<u>IMPROBABLE</u>
LEVEL		<u>A</u>	<u>B</u>	<u>C</u>	\underline{D}	<u>E</u>
SEVERITY						
CATEGORY:			D		-	
CATASTROPH	IIC I	I	[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

TABLE 3

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.

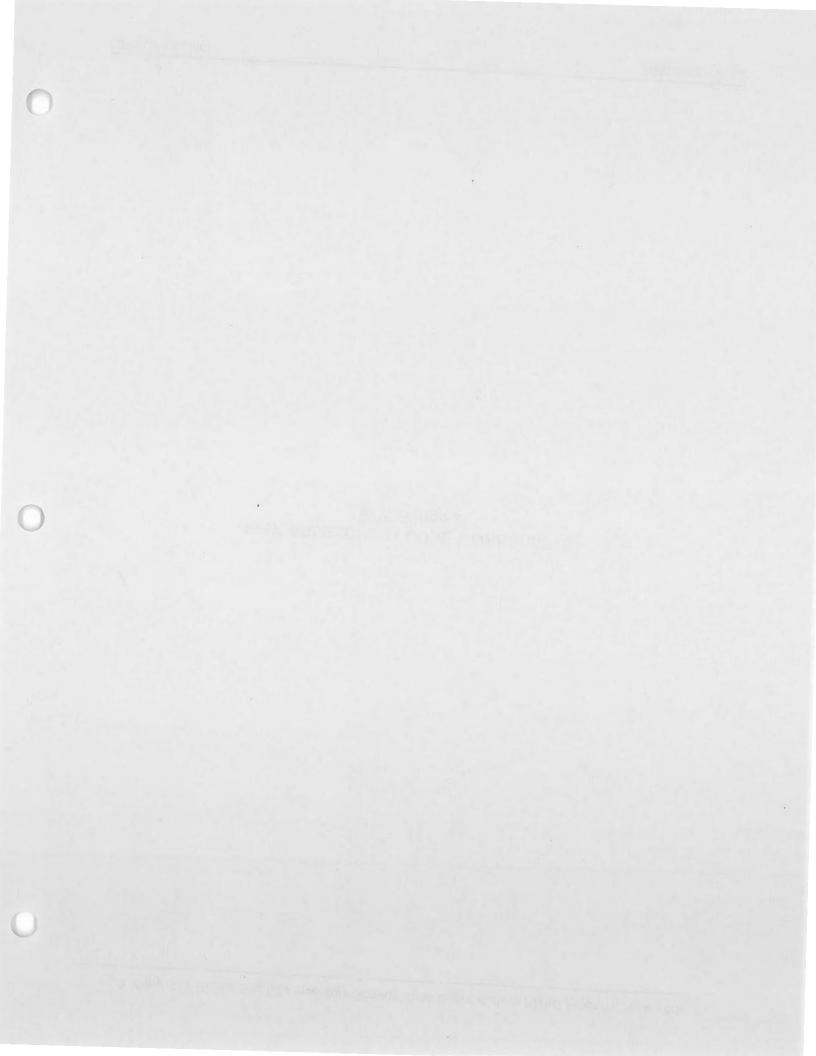
RAC 4 Low Risk - Recommend further action.

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. This demolition area was documented in the ASR.

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RISK ASSESSMENT CODE WORKSHEETS EOD Range 2



THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	EOD Range 2	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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)

survey due to heavy brush cover.

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 cal50 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?	
	_EE/CA investigation found UXO on surface. EE/CA unable to complete geophysica	al

	yrotechnics (for munitions not described above):	VALU
	funition (containers) containing white phosphorus (WP) or other yrophoric material (i.e., spontaneously flammable)	
	funition containing a flame or incendiary material (i.e., Napalm,	
	riethylaluminum metal incendiaries)	
	lares, signals, simulators, screening smokes (other than WP) yrotechnics (select the single largest value)	
W	hat evidence do you have regarding pyrotechnics?	
	EE/CA and ASR noted flares/flare remnants in area.	
-	ulk High Explosives (not an integral part of conventional	
	dnance; uncontainerized):	VALU
	imary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	
	ercury azide, mercury fulminate, tetracene, etc.)	,]
	emolition charges condary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	- 1
	MX, HBX, Black Powder, etc.)	
	ilitary dynamite	
	ess sensitive explosives (ammonium nitrate, Explosive D, etc.)	
Hi	gh explosives (select the single largest value)	
W	hat evidence do you have regarding bulk explosives?	
B	ased on ASR. Demolition charges were used to detonate munitions.	
B	ased on ASR. Demolition charges were used to detonate munitions.	
Bu	lk propellants (not an integral part of rockets, guided missiles, or other	
Bu	Ik propellants (not an integral part of rockets, guided missiles, or other oventional ordnance; uncontainerized):	VALU
Bu	Ik propellants (not an integral part of rockets, guided missiles, or other aventional ordnance; uncontainerized): lid or liquid propellants	
Bu con Sol	Ik propellants (not an integral part of rockets, guided missiles, or other oventional ordnance; uncontainerized):	VALU
Bu con Sol	Ik propellants (not an integral part of rockets, guided missiles, or other aventional ordnance; uncontainerized): lid or liquid propellants opellants	
Ba con So Pr Wi	Ik propellants (not an integral part of rockets, guided missiles, or other aventional ordnance; uncontainerized): lid or liquid propellants opellants hat evidence do you have regarding bulk propellants? emical Warfare Materiel (CWM) and Radiological Weapons:	
Bu con So Pr WI Ch	Ik propellants (not an integral part of rockets, guided missiles, or other aventional ordnance; uncontainerized): lid or liquid propellants opellants hat evidence do you have regarding bulk propellants? emical Warfare Materiel (CWM) and Radiological Weapons: kic chemical agents (choking, nerve, blood, blister)	VALUI 2
Bu con So Pr Wi Ch	Ik propellants (not an integral part of rockets, guided missiles, or other aventional ordnance; uncontainerized): lid or liquid propellants opellants hat evidence do you have regarding bulk propellants? emical Warfare Materiel (CWM) and Radiological Weapons: kic chemical agents (choking, nerve, blood, blister) r Gas Identification Sets	VALUI 2 2
Bu con So Pr W1 Ch Ch Ch Rac	Ik propellants (not an integral part of rockets, guided missiles, or other aventional ordnance; uncontainerized): lid or liquid propellants opellants hat evidence do you have regarding bulk propellants? emical Warfare Materiel (CWM) and Radiological Weapons: kic chemical agents (choking, nerve, blood, blister) r Gas Identification Sets liological	VALUI 2
Bu con So Pr W1 Ch Fo: Wa Rac Rac	Ik propellants (not an integral part of rockets, guided missiles, or other aventional ordnance; uncontainerized): lid or liquid propellants opellants hat evidence do you have regarding bulk propellants? emical Warfare Materiel (CWM) and Radiological Weapons: kic chemical agents (choking, nerve, blood, blister) r Gas Identification Sets liological t Control Agents (vomiting, tear)	VALU: 2 2 1
Ba con So Pr W1 — Ch To: Wa Rac Ric Ch	Ik propellants (not an integral part of rockets, guided missiles, or other aventional ordnance; uncontainerized): lid or liquid propellants opellants hat evidence do you have regarding bulk propellants? emical Warfare Materiel (CWM) and Radiological Weapons: kic chemical agents (choking, nerve, blood, blister) r Gas Identification Sets diological t Control Agents (vomiting, tear) emical and Radiological (select the single largest value)	VALU 2 2
Ba con So Pr Wl Ch To: Wa Rac Ric Ch	Ik propellants (not an integral part of rockets, guided missiles, or other aventional ordnance; uncontainerized): lid or liquid propellants opellants hat evidence do you have regarding bulk propellants? emical Warfare Materiel (CWM) and Radiological Weapons: kic chemical agents (choking, nerve, blood, blister) r Gas Identification Sets liological t Control Agents (vomiting, tear)	VALU. 2 2 1
Ba con So Pr Wl Ch To: Wa Rac Ric Ch	Ik propellants (not an integral part of rockets, guided missiles, or other aventional ordnance; uncontainerized): lid or liquid propellants opellants hat evidence do you have regarding bulk propellants? emical Warfare Materiel (CWM) and Radiological Weapons: kic chemical agents (choking, nerve, blood, blister) r Gas Identification Sets diological t Control Agents (vomiting, tear) emical and Radiological (select the single largest value)	VALU 2 2 1

TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): ____18 ___ (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

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		

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?

One UXO found on surface during EE/CA; numerous geophysical anomalies noted.

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?	
Houses and commercial buildings of town of Romulus.	
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)	5
Narrative:	
High number of buildings: town of Romulus, SEAD structures.	

Educational, child care, residential, hospitals hotels, commercial,	E
shopping centers	2
Industrial, warehouse, etc.	4
Agricultural, forestry, etc.	5432
Detention, correctional	2
No buildings	0
Types of buildings (select the single largest value)	5
Describe the types of buildings:	
Schools, residences, commercial.	

Use the foll	y to site refers to access by humans to ordnance and explosives. owing guidance: or security system	VALUE 5
	complete (e.g., in disrepair or does not completely surround rrier is intended to deny egress from the site, as for a barbed or grazing.	4
control entry	ny kind of fence in good repair) but no separate means to . Barrier is intended to deny access to the site. rd, but no barrier	3 2
Isolated site		1
surveillance controls entr with a cliff) entry at all ti	arveillance system (e.g., television monitoring or by guards or facility personnel continuously monitors and y; or, an artificial or natural barrier (e.g., fence combined that completely surrounds the area; and, a means to control mes through the gates or other entrances (e.g., an attendant, onitors, locked entrances, or controlled roadway access to	0
Accessibility	(select the single largest value)	5
Describe the	e site accessibility:	
No range f	ence. Installation is fenced, gated, guarded.	

 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

Describe the site dynamics:

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

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

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT	Α	27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	C	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	Е	less than 8

TABLE 2 HAZARD PROBABILITY

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.

			TABL	Ξ3		
			RISK ASSES	SMENT		
PROBABILI	TY	FREQUENT	PROBABLE	OCCASIONAL	REMOTE	IMPROBABLE
LEVEL		<u>A</u>	<u>B</u>	<u>C</u>	D	E
SEVERITY						
CATEGORY:						
CATASTROPH	IC I	1	I	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.

Risk is based on discovery of UXO by EE/CA and statements in ASR that ordnance may have been disposed of in Duck Pond.

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RISK ASSESSMENT CODE WORKSHEETS EOD Range 3

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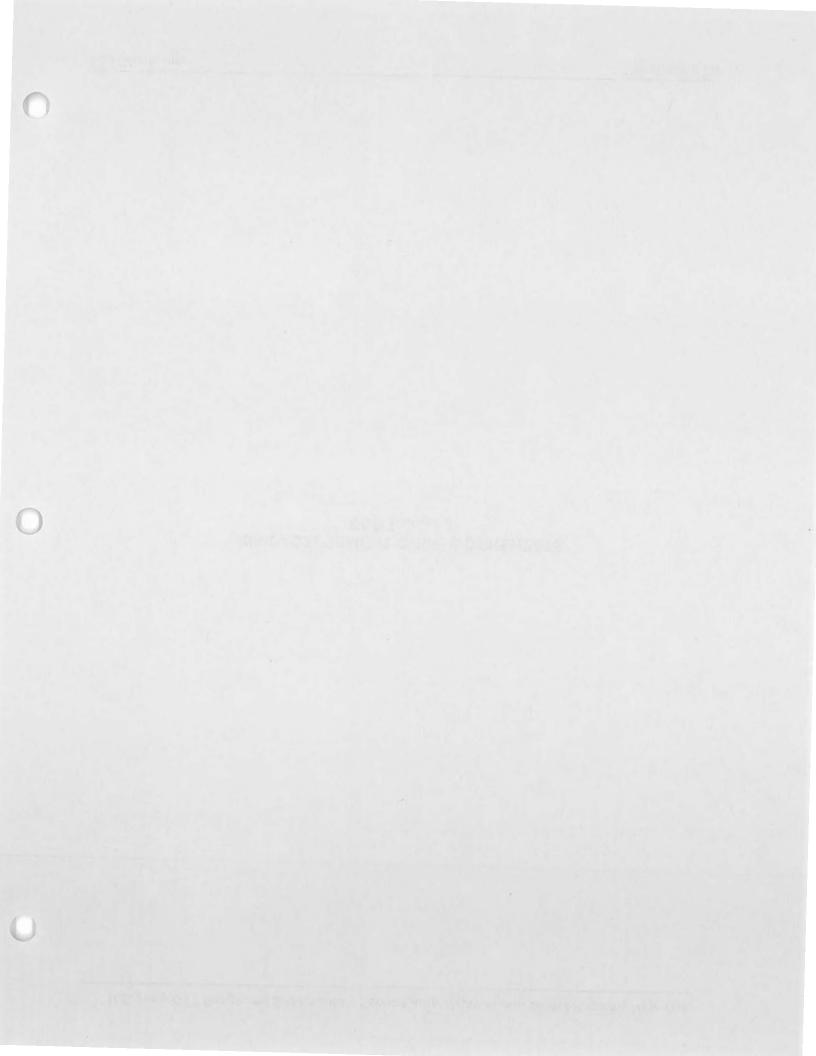
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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	EOD Range 3	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	Score	2

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 cal50 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?	
	Findings of EE/CA investigation – no UXO discovered.	<u> </u>

Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable)	VAL
Munition containing a flame or incendiary material (i.e., Napalm,	
Triethylaluminum metal incendiaries)	
•	
What evidence do you have regarding pyrotechnics?	
EE/CA and ASR noted flare remnants in area, but found no UXO	
	VAL
	VAL
Less sensitive explosives (ammonium nitrate, Explosive D, etc.)	
High explosives (select the single largest value)	
What evidence do you have regarding bulk explosives?	
Based on ASR. Demolition charges were used to detonate munitions.	
conventional ordnance; uncontainerized): Solid or liquid propellants	VALU
	VALU
	-
Liot Control Agents (vomiting, tear)	
Chemical and Radiological (select the single largest value)	
	Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value) What evidence do you have regarding pyrotechnics? EE/CA and ASR noted flare remnants in area, but found no UXO Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized): Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin, mercury azide, mercury fulminate, tetracene, etc.) Demolition charges Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.) Military dynamite Less sensitive explosives (ammonium nitrate, Explosive D, etc.) High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Based on ASR. Demolition charges were used to detonate munitions. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: Foxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological

Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1: HAZARD SEVERITY*

DESCRIPTION	CATECODV	HAZARD SEVERITY VALUE	
DESCRIPTION	<u>CATEGORY</u>		
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 Seventy Category	to Table 3		

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: On the surface	VALUE 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?

Munitions remnants found on-surface

Distance to nearest inhabited location/structure likely to be at risk from the **B**. VALUE UXO or OE hazard (road, park, playground, building, etc.): 5 Less than 1,250 feet 4 1.250 feet to 0.5 mile 3 0.5 mile to 1.0 mile 2 1.0 mile to 2.0 Miles Į Over 2 miles Distance (select the single largest value) 4 What are the nearest inhabited structures/buildings? Houses commercial buildings of town of Romulus.

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

Narrative:

High number of buildings: town of Romulus, SEAD structures.

Types of Buildings (within a 2 mile radius): Educational, child care, residential, hospitals hotels, commercial, shopping centers	VALU
Industrial, warehouse, etc.	
Agricultural, forestry, etc.	
Detention, correctional	
No buildings	(
Types of buildings (select the single largest value)	!
Describe the types of buildings:	
Schools, residences, commercial.	,
Accessibility to site refers to access by humans to ordnance and explosives.	
Use the following guidance: No barrier nor security system	VALUE 5
Barrier is incomplete (e.g., in disrepair or does not completely surround he 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
solated site	I
A 24-hour surveillance system (e.g., television monitoring or urveillance by guards or facility personnel continuously monitors and ontrols entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) that completely surrounds the area; and, a means to control ntry at all times through the gates or other entrances (e.g., an attendant, elevision monitors, locked entrances, or controlled roadway access to	0
he area).	
accessibility (select the single largest value)	5
Describe the site accessibility:	

 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

Describe the site dynamics:

TOTAL HAZARD PROBABILITY VALUE (sum of largest values for A through F): <u>24</u> (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	Ā	27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	Е	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.

TABLE 3 RISK ASSESSMENT						
PROBABILIT	Y	FREQUENT	PROBABLE	OCCASIONAL	<u>REMOTE</u>	IMPROBABLE
LEVEL		<u>A</u>	<u>B</u>	<u>C</u>	D	E
SEVERITY						
CATEGORY:					-	,
CATASTROPHIC	CI	1	1	2	3	4
CRITICAL	Π	1	þ	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.

This demolition area was documented in the ASR. Flare, practice grenade, and fuze remnants were found in the area, but the EE/CA investigation found no UXO, but recommended munitions clearance. .

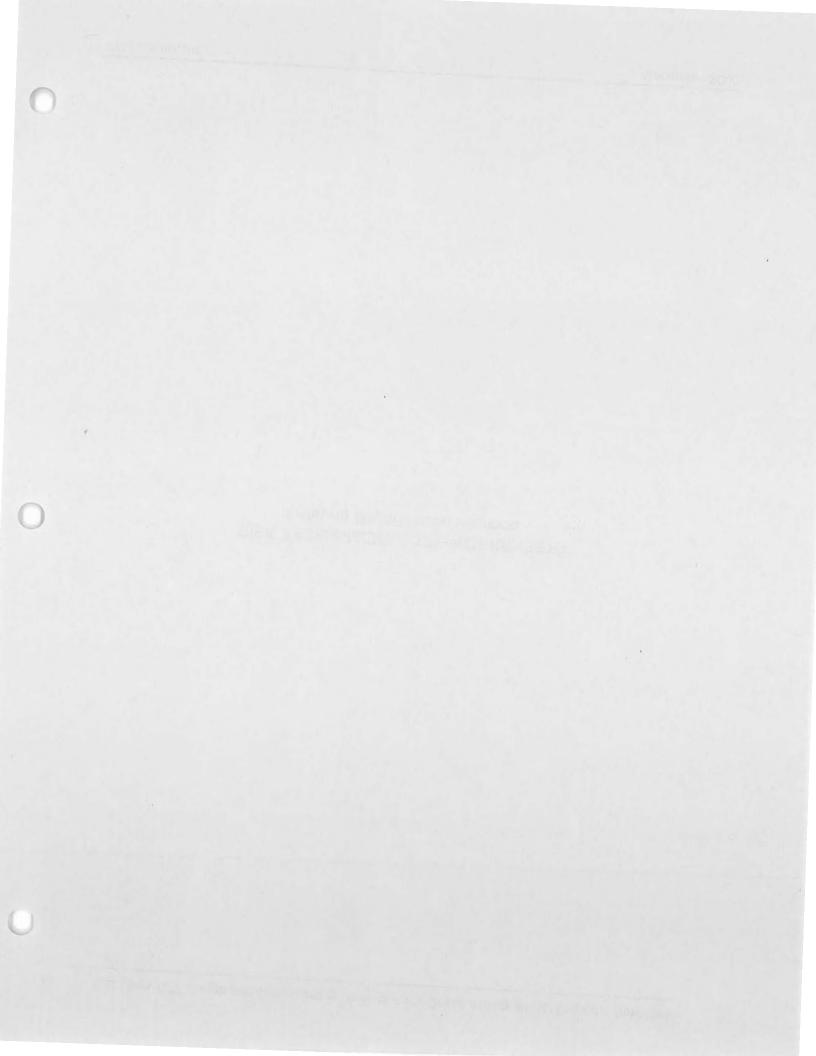
U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

RISK ASSESSMENT CODE WORKSHEETS Existing Deactivation Furnace

10

10

6



THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	Existing Deactivation Furnace	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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 cal50 cal)	1
	Small arms, expended	$\overline{0}$
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	1
	What evidence do you have regarding conventional UXO?	

ASR noted that ammunition and casing was abundant around SEAD-17.

	Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value)	
	What evidence do you have regarding pyrotechnics?	
	Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized): Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	VALU
	mercury azide, mercury fulminate, tetracene, etc.) Demolition charges Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	, 1 , 1
	Military dynamite Less sensitive explosives (ammonium nitrate, Explosive D, etc.) High explosives (select the single largest value)	
	What evidence do you have regarding bulk explosives?	
	Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants	VALU
	Propellants What evidence do you have regarding bulk propellants?	
	Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALU
ł	Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)	2 24 1
(Chemical and Radiological (select the single largest value) What evidence do you have regarding chemical or radiological?	

ł

Apply this value to Table 1 to determine Hazard Severity Category

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

TABLE 1:

* 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 our the properties believed at methods (build a set)	

What are the nearest inhabited structures/buildings?

С.	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
	I to 5	1
	0	0
	Number of buildings (select the single largest value)	5
	Narrative:	

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)	5
	Becaribe the types of buildings:	

Describe the types of buildings:

.

Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALUE
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)	5
Describe the site accessibility:	

 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

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

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

DESCRIPTION	LEVEL	HAZARD PROBABILITY VALUE
FREQUENT	Α	27 or greater
PROBABLE	B	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	E	less than 8
*Apply Hazard Probability		1000 (164) 0

TABLE 2HAZARD PROBABILITY

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.

TABLE 3 RISK ASSESSMENT					
PROBABILITY	FREQUENT	PROBABLE	OCCASIONAL	REMOTE	IMPROBABLE
LEVEL	<u>A</u>	B	C	D	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.

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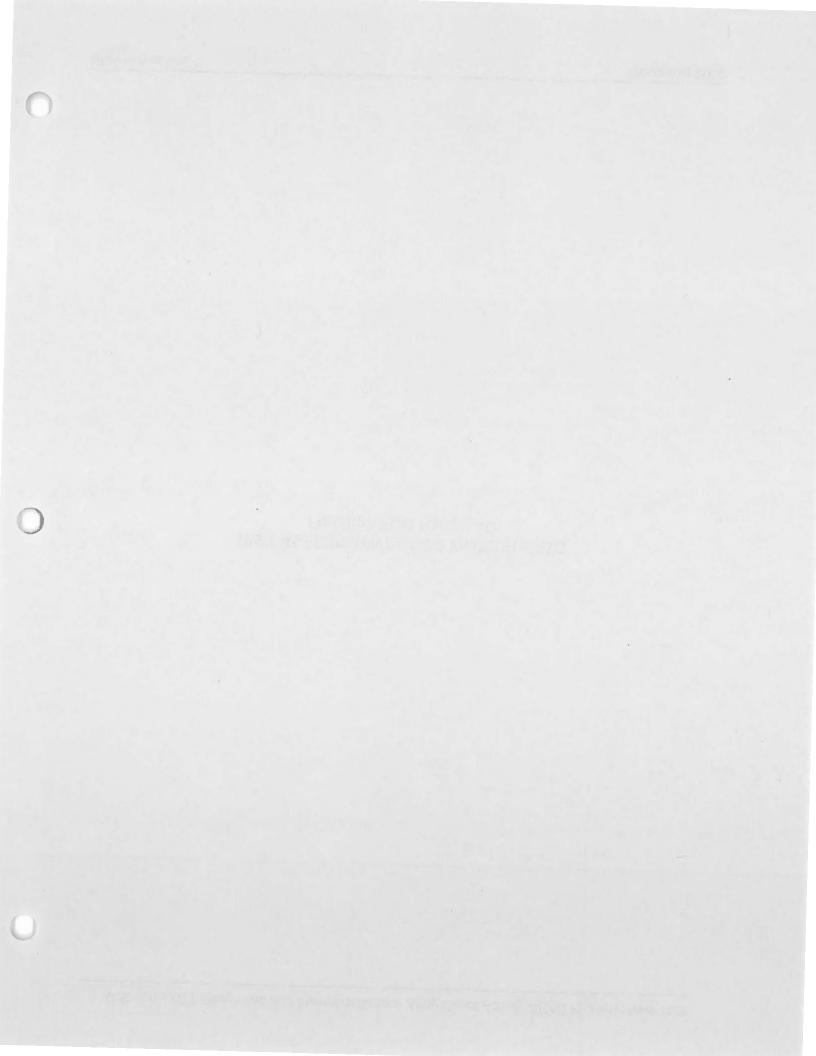
U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

RISK ASSESSMENT CODE WORKSHEETS Function Test Range XD

1

1

1



THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	Function Test Range XD	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Transferred	Organization	URS Group, Inc.
Date Completed	July 2002	Score	5

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 cal50 cal)		
	Small arms, expended		0
	Practice ordnance (w/o spotting charges)	ł	0
	Conventional ordnance and ammunition (largest single value)		0
	What evidence do you have regarding conventional UXO?		

Site has been scraped to a depth of 1 ft. and soil sifted to remove UXO, and then all

remaining geophysical anomalies to a depth of 4 ft. were excavated and destroyed. No	
UXO remains.	

Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares. signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value) What evidence do you have regarding pyrotechnics?	VALUE 10 6 <u>4</u> 0
Bulk High Explosives (not an integral part of conventional ordnance; nncontainerized):	VALUE
Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin, mercury azide, mercury fulminate, tetracene, etc.) Demolition charges Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	- 10 - 10 - 8
Military dynamite Less sensitive explosives (ammonium nitrate, Explosive D, etc.) High explosives (select the single largest value)	6 3 0
What evidence do you have regarding bulk explosives?	······
Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants	VALUE 6
Propellants What evidence do you have regarding bulk propellants?	
Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)	VALUE 25 20 15 5

TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): ___0 (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

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

TABLE 1: HAZARD SEVERITY*

* 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)

А.	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)	0

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

Distance to nearest inhabited location/structure likely to be at risk from the **B**. VALUE UXO or OE hazard (road, park, playground, building, etc.): 5 Less than 1.250 feet 4 1.250 feet to 0.5 mile 3 0.5 mile to 1.0 mile 2 1.0 mile to 2.0 Miles I Over 2 miles 0 Distance (select the single largest value) What are the nearest inhabited structures/buildings?

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

D.	Types of Buildings (within a 2 mile radius): Educational, child care, residential, hospitals hotels, commercial,	VALUE
	shopping centers	5
	Industrial, warehouse, etc.	4
	Agricultural, forestry, etc.	3
	Detention, correctional	2
	No buildings	0
	Types of huildings (select the single largest value)	0
	Describe the types of buildings:	

Use	essibility to site refers to access by humans to ordnance and explosives. the following guidance: barrier nor security system	VALUE 5
the	rier is incomplete (e.g., in disrepair or does not completely surround site). Barrier is intended to deny egress from the site, as for a barbed e fence for grazing.	4
con	arrier (any kind of fence in good repair) but no separate means to trol entry. Barrier is intended to deny access to the site. urity guard, but no barrier	3
Isol	ated site	1
surv cont with entry telev	4-hour surveillance system (e.g., television monitoring or reillance by guards or facility personnel continuously monitors and trols entry; or, an artificial or natural barrier (e.g., fence combined a cliff) that completely surrounds the area; and, a means to control y at all times through the gates or other entrances (e.g., an attendant, vision monitors, locked entrances, or controlled roadway access to area).	0
Acc	essibility (select the single largest value)	0
Dese	cribe the site accessibility:	

 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

 Describe the site dynamics:
 0

TOTAL HAZARD PROBABILITY VALUE (sum of largest values for A through F): <u>0</u> (maximum of 30)

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

DESCRIPTION	LEVEL	HAZARD PROBABILITY VALUE
FREQUENT	Α	27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	Е	less than 8

TABLE 2IAZARD PROBABILITY

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.

TABLE 3						
RISK ASSESSMENT						
PROBABILI	TY	FREQUENT	PROBABLE	<u>OCCASIONAL</u>	<u>REMOTE</u>	IMPROBABLE
<u>LEVEL</u>		A	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>
SEVERITY						
CATEGORY:						
CATASTROPH	IC I	1	l	2	3	4
CRITICAL	II	l	2	3	4	5
MARGINAL	111	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.

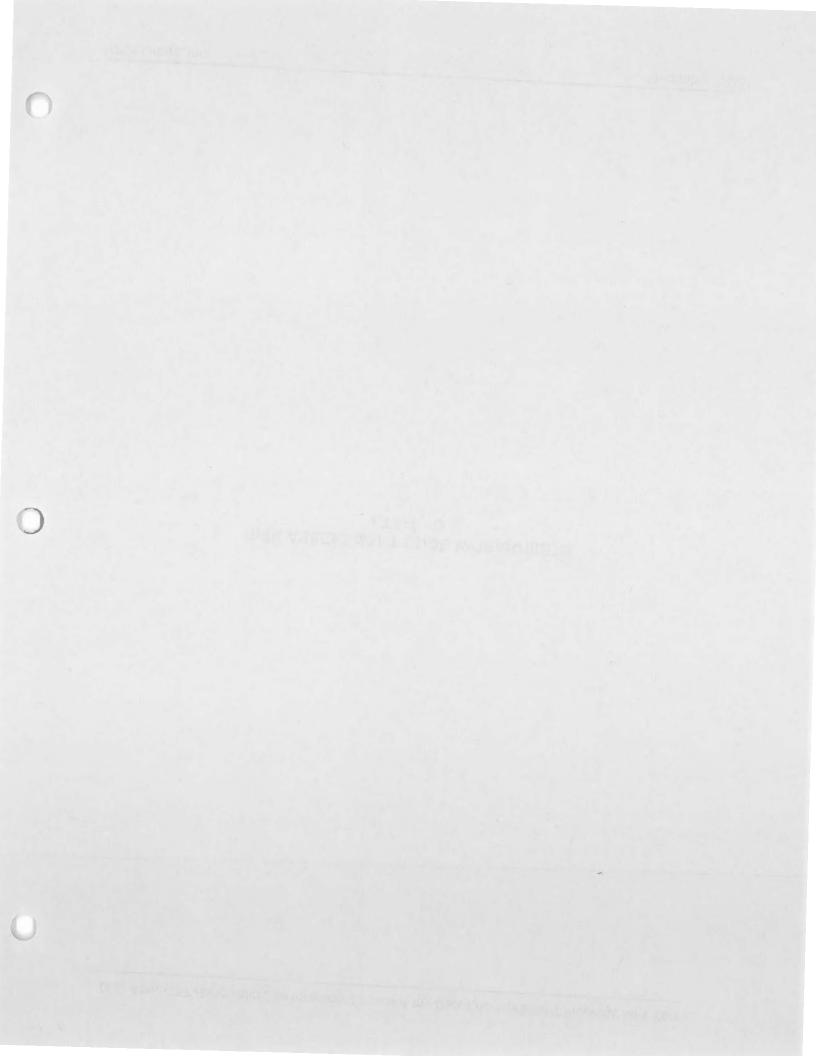
Risk is based on excavation and removal of UXO. No munitions remain.

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U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

RISK ASSESSMENT CODE WORKSHEETS LTA-1 XD

1



THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	LTA-1 XD	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Transferred	Organization	URS Group, Inc.
Date Completed	July 2002	Score	5

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.

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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)

А.	Conventional ordnance and ammunition:	VALUE
	Medium/large caliber (20mm and larger)	10
	Bombs, explosive	10
	Grenades, hand or rifle, explosive	01
	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 cal50 cal)	1
	Small arms, expended	Q
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	0
	What evidence do you have regarding conventional UXO?	

Because of proximity to northern cantonment, LTA-1 was probably not used for firing. exercises.

	Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value)	VALU
	What evidence do you have regarding pyrotechnics?	
	Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized): Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	VALU
	mercury azide, mercury fulminate, tetracene, etc.) Demolition charges Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	
	HMX, HBX, Black Powder, etc.) Military dynamite	
	Less sensitive explosives (ammonium nitrate, Explosive D, etc.) High explosives (select the single largest value) What evidence do you have regarding bulk explosives?	
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives?	
]	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants	VALU
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? 	VALU
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALU VALU VALU
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? ————————————————————————————————————	VALU

Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1: HAZARD SEVERITY*

<u>DESCRIPTION</u> CATASTROPHIC	<u>CATEGORY</u> I	HAZARD SEVERITY VALUE 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)

А.	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)	0

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

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)	0		

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 ł 0 0 Number of buildings (select the single largest value) 0 Narrative:

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:	

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 2 Security guard, but no barrier 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 0 the area). 0 Accessibility (select the single largest value) Describe the site accessibility:

 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 heaches 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

 Describe the site dynamics:
 0

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

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

DESCRIPTION	<u>LEVEL</u>	<u>HAZARD PROBABILITY VALUE</u>
FREQUENT	A	27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	E	less than 8

TABLE 2 HAZARD PROBABILITY

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.

TABLE 3							
RISK ASSESSMENT							
PROBABILI	<u>TY</u>	FREQUENT	<u>PROBABLE</u>	OCCASIONAL	<u>REMOTE</u>	<u>IMPROBABLE</u>	
LEVEL		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	
SEVERITY							
CATEGORY:							
CATASTROPH	IC I	1	1	2	3	4	
CRITICAL	II	1	2	3	4	5	
MARGINAL	111	2	3	4	4	5	
NEGLIGIBLE	IV	3	4	4	5	5	

RISK ASSESSMENT CODE (RAC):

RAC I 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.

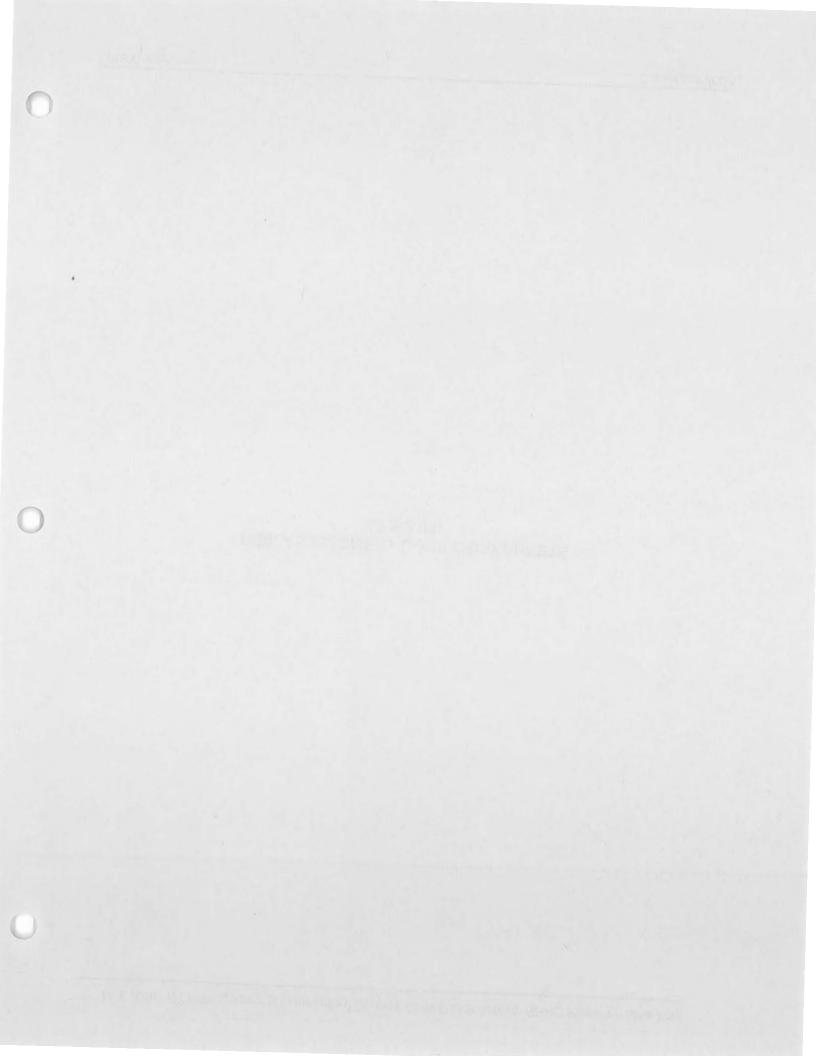
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U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

RISK ASSESSMENT CODE WORKSHEETS LTA-2 (III)

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	LTA-2 (III)	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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	01
	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 cal50 cal)	1
	Small arms, expended	$\overline{0}$
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	1
	What evidence do you have regarding conventional UXO?	
	Blank ammunition noted in several LTAs at SEAD.	

	Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries)	VALU.
	Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value)	
	What evidence do you have regarding pyrotechnics?	
	Flares, smokes commonly used during mock combat training exercises.	
	Bulk High Explosives (not an integral part of conventional	
	ordnance; uncontainerized): Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	VALU
	mercury azide, mercury fulminate, tetracene, etc.)	1
	Demolition charges	· 1
	Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	
	Military dynamite	
	Less sensitive explosives (ammonium nitrate, Explosive D, etc.) High explosives (select the single largest value)	
	What evidence do you have regarding bulk explosives?	
,		
	Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants	VALUI
	conventional ordnance; uncontainerized): Solid or liquid propellants Propellants	(
	conventional ordnance; uncontainerized): Solid or liquid propellants	(
	conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALUE
	conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants?	VALUE 25
	conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological	(
	conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding buik propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)	VALUE 25 20
]	conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological	VALUE 22 20 15

TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): ____5 (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1: **HAZARD SEVERITY***

DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE
	CATLOOKE	
CATASTROPHIC	l	21 and/or greater
CRITICAL	1I	10 to 20
MARGINAL	III	5 to 9
NEGLIGIBLE	IV	1 to 4
**NONE	V	0
	- 7-11-1	

* 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?	

Blank ammunition and flare carcasses found on surface in some LTAs

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

LTA	is	along	SEAD's	boundary.
		****B	00110 0	Souther 1.

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)	5
	Narrative:	

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)	5
	Describe the types of buildings:	
	State facilities, residences, farms, and commercial properties.	

\mathbf{U}_{i}	ccessibility to site refers to access by humans to ordnance and explosives. se the following guidance: o barrier nor security system	VALUE
th	arrier is incomplete (e.g., in disrepair or does not completely surround e site). Barrier is intended to deny egress from the site, as for a barbed ire fence for grazing.	4
	barrier (any kind of fence in good repair) but no separate means to ontrol entry. Barrier is intended to deny access to the site.	3
Se	curity guard, but no barrier	2
Isc	olated site	1
su: co wi en: tel	24-hour surveillance system (e.g., television monitoring or rveillance by guards or facility personnel continuously monitors and ntrols entry; or, an artificial or natural barrier (e.g., fence combined th a cliff) that completely surrounds the area; and, a means to control try at all times through the gates or other entrances (e.g., an attendant, evision monitors, locked entrances, or controlled roadway access to e area).	0
Ac	cessibility (select the single largest value)	5
De	escribe the site accessibility:	
_ <u>L</u>	TA is not separately fenced. SEAD has fence, locked gates, and guards.	

 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

 Describe the site dynamics:
 0

TOTAL HAZARD PROBABILITY VALUE (sum of largest values for A through F): <u>25</u> (maximum of 30)

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

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

TABLE 2HAZARD PROBABILITY

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.

TABLE 3						
RISK ASSESSMENT						
PROBABILI	<u>ry</u>	FREQUENT	PROBABLE	<u>OCCASIONAL</u>	<u>REMOTE</u>	<u>IMPROBABLE</u>
<u>LEVEL</u>		A	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>
SEVERITY						
CATEGORY:						
CATASTROPH	IC I	1	1	2	3	4
CRITICAL	H	1	2	3	4	5
MARGINAL	Ш	2	3	4	4	5
NEGLIGIBLE	IV	3	4	4	5	5

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RISK ASSESSMENT CODE (RAC):

RAC I 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.

LTAs have not been closely inspected, but ASR notes presence of blank ammunition and flare

carcasses on ground in some LTAs. This fits with common Army practice.

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RISK ASSESSMENT CODE WORKSHEETS LTA-3 (II)

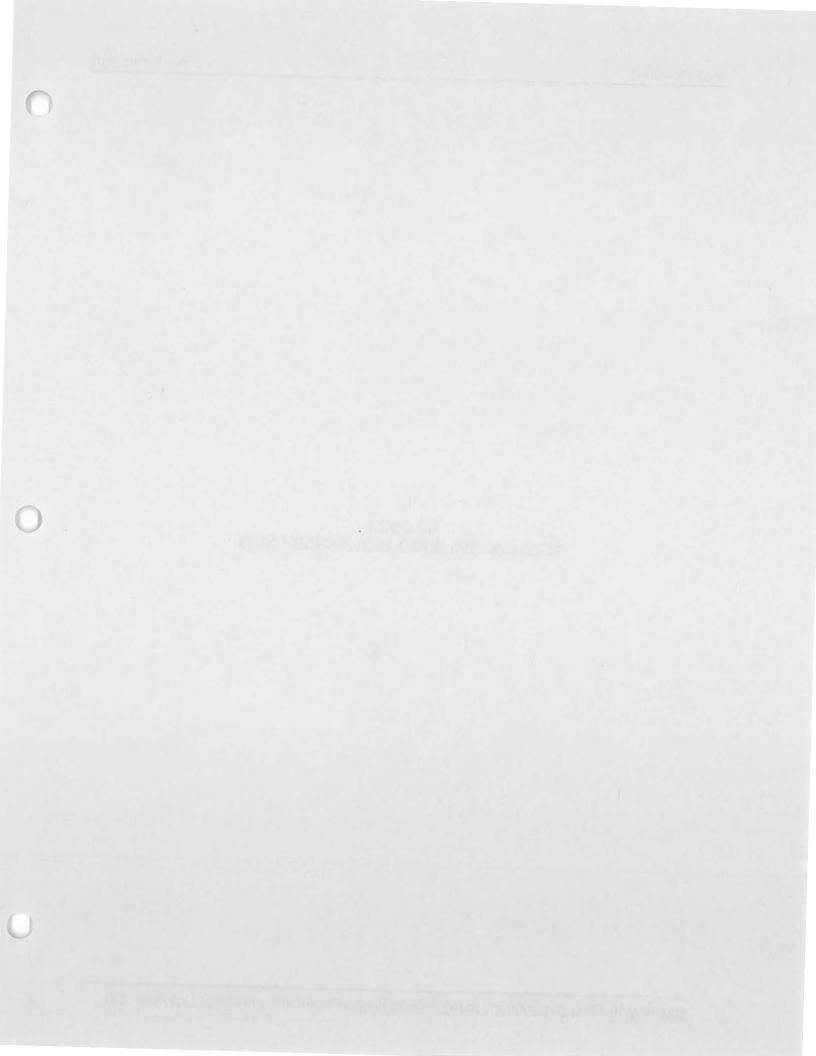
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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	LTA-3 (II)	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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 cal50 cal)	[1]
	Small arms, expended	$\overline{0}$
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	1
	What evidence do you have regarding conventional UXO?	
	Blank ammunition noted in several LTAs at SEAD.	

Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) of	VAL or other
pyrophoric material (i.e., spontaneously flammable)	analm
Munition containing a flame or incendiary material (i.e., N Triethylaluminum metal incendiaries)	apann,
Flares, signals, simulators, screening smokes (other than W	(P)
Pyrotechnics (select the single largest value)	
What evidence do you have regarding pyrotechnics?	
Flares, smokes commonly used during mock combat t	aining exercises.
Bulk High Explosives (not an integral part of conventio	nal VAL
ordnance; uncontainerized): Primary or initiating explosives (lead styphnate, lead azide	
mercury azide, mercury fulminate, tetracene, etc.)	
Demolition charges	ι ጥእጥ በጉኑን
Secondary explosives (PETN, Compositions A, B, C, Tetry HMX, HBX, Black Powder, etc.)	I, INI, RDX,
Military dynamite	
Less sensitive explosives (ammonium nitrate, Explosive D,	etc.)
High explosives (select the single largest value) What evidence do you have regarding bulk explosives?	
Bulk propellants (not an integral part of rockets, guided conventional ordnance; uncontainerized):	missiles, or other VAL
Solid or liquid propellants	
Propellants	
What evidence do you have regarding bulk propellants?	<u> </u>
Chemical Warfare Materiel (CWM) and Radiological W	VAL
Toxic chemical agents (choking, nerve, blood, blister)	capons.
War Gas Identification Sets	
Radiological	
Riot Control Agents (vomiting, tear) Chemical and Radiological (select the single largest value)	e)
What evidence do you have regarding chemical or radio	logical?
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TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): <u>5</u> (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1: HAZARD SEVERITY*

CATEGORY	HAZARD SEVERITY VALUE
I	21 and/or greater
1I	10 to 20
III	5 to 9
IV	1 to 4
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)

А.	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?	

Blank ammunition and flare carcasses found on surface in some LTAs

В.	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?	

LTA	is	along	SEAD's	boundary.
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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	
	Number of buildings (select the single largest value)	5
	Narrative:	

D.	Types of Buildings (within a 2 mile radius):	VALUE
	Educational, child care, residential, hospitals hotels, commercial, shopping centers	ন
	Industrial, warehouse, etc.	4
	Agricultural, forestry, etc.	3
	Detention, correctional	2
	No buildings	0
	Types of buildings (select the single largest value)	5
	Describe the types of buildings:	
	State facilities, residences, farms, and commercial properties.	
	N	

Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALUE
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. Security guard, but no barrier	3
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)	5
Describe the site accessibility:	
LTA is not separately fenced. SEAD has fence, locked gates, and guards.	

 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

 Describe the site dynamics:
 1

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

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

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT	Α	27 or greater
PROBABLE	B	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	Е	less than 8

TABLE 2HAZARD PROBABILITY

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.

TABLE 3						
RISK ASSESSMENT						
PROBABILIT	Y	FREQUENT	<u>PROBABLE</u>	OCCASIONAL	REMOTE	<u>IMPROBABLE</u>
<u>LEVEL</u>		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	E
SEVERITY						
CATEGORY:					-	
CATASTROPHI	CI	1	I	2	3	4
CRITICAL	П	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.

LTAs have not been closely inspected, hut ASR notes presence of blank ammunition and flare

carcasses on ground in some LTAs. This fits with common Army practice.

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RISK ASSESSMENT CODE WORKSHEETS LTA-4 (I)

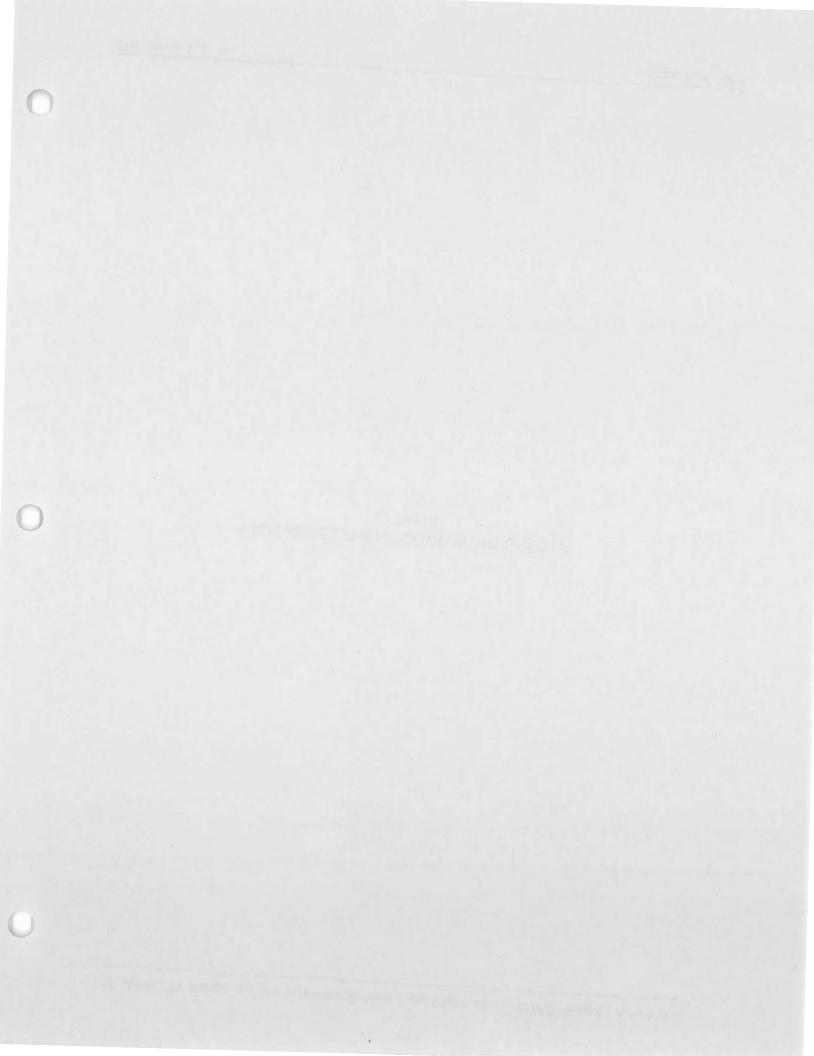
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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	LTA-4 (I)	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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)

А.	Conventional ordnance and ammunition:	VALUE
	Medium/large caliber (20mm and larger)	10
	Bombs, explosive	01
	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 cal50 cal)	П
	Small arms, expended	<u>日</u> ①
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	
	What evidence do you have regarding conventional UXO?	
	Blank ammunition noted in several LTAs at SEAD.	

:	Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value)	
,	What evidence do you have regarding pyrotechnics? Flares, smokes commonly used during mock combat training exercises.	
-		
O H T	Bulk High Explosives (not an integral part of conventional ordnance; uncontainerized): Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin, nercury azide, mercury fulminate, tetracene, etc.) Demolition charges	
S H N	Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, IMX, HBX, Black Powder, etc.) Itilitary dynamite	
	ess sensitive explosives (ammonium nitrate, Explosive D, etc.) ligh explosives (select the single largest value)	
V 	Vhat evidence do you have regarding bulk explosives?	
c S	Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): olid or liquid propellants ropellants	VALUI
	What evidence do you have regarding bulk propellants?	
_		
T W R	hemical Warfare Materiel (CWM) and Radiological Weapons: oxic chemical agents (choking, nerve, blood, blister) /ar Gas Identification Sets adiological	VALUI 25 20 15
	iot Control Agents (vomiting, tear) hemical and Radiological (select the single largest value)	(
C	hat evidence do you have regarding chemical or radiological?	

TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): ____5___ (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

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.

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

A.	Locations of UXO and OE bazards:	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 bave regarding the location of UXO and OE?	

Blank ammunition and flare carcasses found on surface in some LTAs

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

LTA is along SEAD's boundary.	
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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)	5		
	Narrative:			

D.	Types of Buildings (within a 2 mile radius):	VALUE
	Educational, child care, residential, hospitals hotels, commercial, shopping centers Industrial, warehouse, etc. Agricultural, forestry, etc. Detention, correctional No buildings Types of buildings (select the single largest value)	5 4 3 2 0 5
	Describe the types of buildings:	

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5

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State facilities, residences, farms, and commercial properties.

Accessihility to site refers to access by humans to ordnance and explosi Use the following guidance: No barrier nor security system	ves. VALUE
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)	5
Describe the site accessibility:	
LTA is not separately fenced. SEAD has fence, locked gates, and guar	ds

Site Dynamics. This deals with site conditions that are subject to change in the F. 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 None anticipated Site Dynamics (select the single largest value)

Describe the site dynamics:

TOTAL HAZARD PROBABILITY VALUE (sum of largest values for A through F): ____25 (maximum of 30)

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

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT	А	27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	E	less than 8

TABLE 2 HAZARD PROBABILITY

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.

TABLE 3							
RISK ASSESSMENT							
PROBABILI	PROBABILITY FREQUENT PROBABLE OCCASIONAL REMOTE IMPROBABLE						
<u>LEVEL</u>		<u>A</u>	<u>B</u>	<u>C</u>	\underline{D}	<u>E</u>	
SEVERITY							
CATEGORY:							
CATASTROPH	IC 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.

LTAs have not been closely inspected, but ASR notes presence of blank ammunition and flare

carcasses on ground in some LTAs. This fits with common Army practice.

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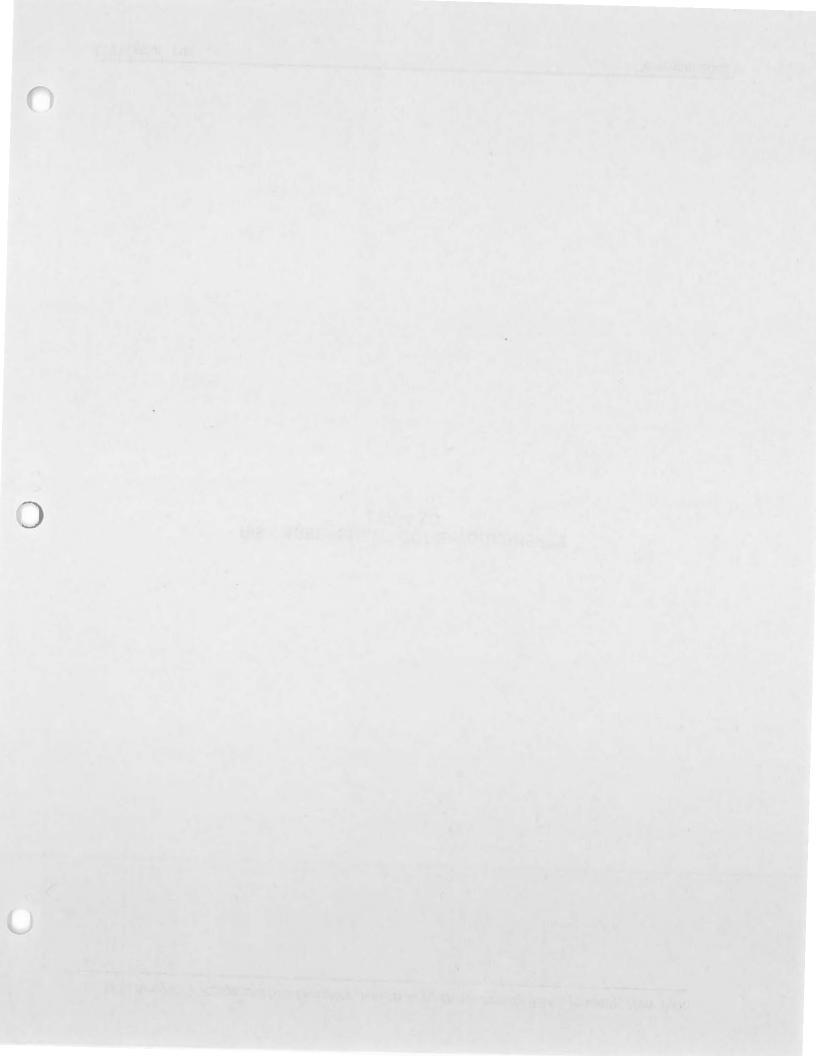
U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

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RISK ASSESSMENT CODE WORKSHEETS LTA-4 XD

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	LTA-4 XD	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Transferred	Organization	URS Group, Inc.
Date Completed	July 2002	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. Co	nventional ordnance and ammunition:	VALUE
Me	edium/large caliber (20mm and larger)	10
Во	mbs, explosive	10
Gre	enades, hand or rifle, explosive	10
La	ndmine, explosive	10
Ro	ckets, guided missile, explosive	10
De	tonators, blasting caps, fuzes, boosters, bursters	6
Bo	mbs, practice (w/spotting charges)	6
Gre	enades, practice (w/spotting charges)	4
Lar	idmine, practice (w/spotting charges)	4
Sm	all arms, complete round (.22 cal50 cal)	1
Sm	all arms, expended	0
Pra	ctice ordnance (w/o spotting charges)	0
	nventional ordnance and ammunition (largest single value)	1
Wh	at evidence do you have regarding conventional UXO?	
Bl	ank ammunition noted in several LTAs at SEAD.	

Munit	echnics (for munitions not described above): on (containers) containing white phosphorus (WP) or other noric material (i.e., spontaneously flammable)	VAL
	on containing a flame or incendiary material (i.e., Napalm,	
Trieth	(laluminum metal incendiaries)	
	signals, simulators, screening smokes (other than WP) chnics (select the single largest value)	
•		
	evidence do you have regarding pyrotechnics?	
Flare	s, smokes commonly used during mock combat training exercises.	
	ligh Explosives (not an integral part of conventional	- 7.4 - -
	ice; uncontainerized): y or initiating explosives (lead styphnate, lead azide, nitroglycerin,	VALU
	y azide, mercury fulminate, tetracene, etc.)	
	tion charges	•
	ary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	
	HBX, Black Powder, etc.)	
	y dynamite	
	nsitive explosives (ammonium nitrate, Explosive D, etc.) (plosives (select the single largest value)	
2	vidence do you have regarding bulk explosives?	
conven Solid or	ropellants (not an integral part of rockets, guided missiles, or other tional ordnance; uncontainerized): liquid propellants	VALU
conven Solid or Propell	tional ordnance; uncontainerized): liquid propellants	VALI
conven Solid or Propell	tional ordnance; uncontainerized): liquid propellants ants	VALU
conven Solid or Propell What e	tional ordnance; uncontainerized): liquid propellants ants	
conven Solid on Propell What e Chemic Foxic cl	tional ordnance; uncontainerized): liquid propellants ants widence do you have regarding bulk propellants? al Warfare Materiel (CWM) and Radiological Weapons: hemical agents (choking, nerve, blood, blister)	VALU
conven Solid on Propell What e Chemic Foxic cl War Ga	tional ordnance; uncontainerized): liquid propellants ants widence do you have regarding bulk propellants? al Warfare Materiel (CWM) and Radiological Weapons: memical agents (choking, nerve, blood, blister) is Identification Sets	VALU VALU
conven Solid on Propell What e Chemic Toxic cl War Ga Radiolo	tional ordnance; uncontainerized): liquid propellants ants vidence do you have regarding bulk propellants? al Warfare Materiel (CWM) and Radiological Weapons: hemical agents (choking, nerve, blood, blister) is Identification Sets gical	VALU
conven Solid on Propell What e Chemic Toxic cl War Ga Radiolo Riot Co	tional ordnance; uncontainerized): liquid propellants ants vidence do you have regarding bulk propellants? al Warfare Materiel (CWM) and Radiological Weapons: memical agents (choking, nerve, blood, blister) is Identification Sets gical htrol Agents (vomiting, tear)	VALU
conven Solid of Propell What e Chemic Toxic cl War Ga Radiolo Riot Co Chemic	tional ordnance; uncontainerized): liquid propellants ants vidence do you have regarding bulk propellants? al Warfare Materiel (CWM) and Radiological Weapons: termical agents (choking, nerve, blood, blister) is Identification Sets gical htrol Agents (vomiting, tear) al and Radiological (select the single largest value)	VALU
conven Solid of Propell What e Chemic Toxic cl War Ga Radiolo Riot Co Chemic	tional ordnance; uncontainerized): liquid propellants ants vidence do you have regarding bulk propellants? al Warfare Materiel (CWM) and Radiological Weapons: memical agents (choking, nerve, blood, blister) is Identification Sets gical htrol Agents (vomiting, tear)	VALU
conven Solid of Propell What e Chemic Toxic cl War Ga Radiolo Riot Co Chemic	tional ordnance; uncontainerized): liquid propellants ants vidence do you have regarding bulk propellants? al Warfare Materiel (CWM) and Radiological Weapons: termical agents (choking, nerve, blood, blister) is Identification Sets gical htrol Agents (vomiting, tear) al and Radiological (select the single largest value)	VALU

Apply this value to Table 1 to determine Hazard Severity Category

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TABLE 1: **HAZARD SEVERITY***

DECONTION	CATEGORY	HAZARD SEVERITY VALUE
DESCRIPTION	CATEOUNT	
CATASTROPHIC	I	21 and/or greater
CRITICAL	II	10 to 20
MARGINAL	III	5 to 9
NEGLIGIBLE	IV	1 to 4
**NONE	V	0
and the state of the Community	to Table 7	

* 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. ς.

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)

А.	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?	

Blank ammunition and flare carcasses found on surface in some LTAs

В.	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?	

T	TA.	is	along	SEAD's	boundary
. Ц.	- I A	13	aiving	OLAD 3	Douman y

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
	I to 5	1
	0	0
	Number of buildings (select the single largest value)	5
	Narrative:	

D.	Types of Buildings (within a 2 mile radius):	VALUE
	Educational, child care, residential, hospitals hotels, commercial,	F
	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)	5
	Describe the types of buildings:	

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State facilities, residences, farms, and commercial properties.

Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALUE , S
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	ł
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)	5
Describe the site accessibility:	
LTA is not separately fenced. SEAD has fence, locked gates, and guards.	

 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

Describe the site dynamics:

TOTAL HAZARD PROBABILITY VALUE (sum of largest values for A through F): <u>25</u> (maximum of 30)

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

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT	Α	27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	C	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	Е	less than 8

TABLE 2HAZARD PROBABILITY

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.

TABLE 3 RISK ASSESSMENT					
PROBABILITY	FREQUENT	PROBABLE	OCCASIONAL	REMOTE	<u>IMPROBABLE</u>
LEVEL	A	<u>B</u>	<u>C</u>	D	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.

LTAs have not been closely inspected, but ASR notes presence of blank ammunition and flare carcasses on ground in some LTAs. This fits with common Army practice.

U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

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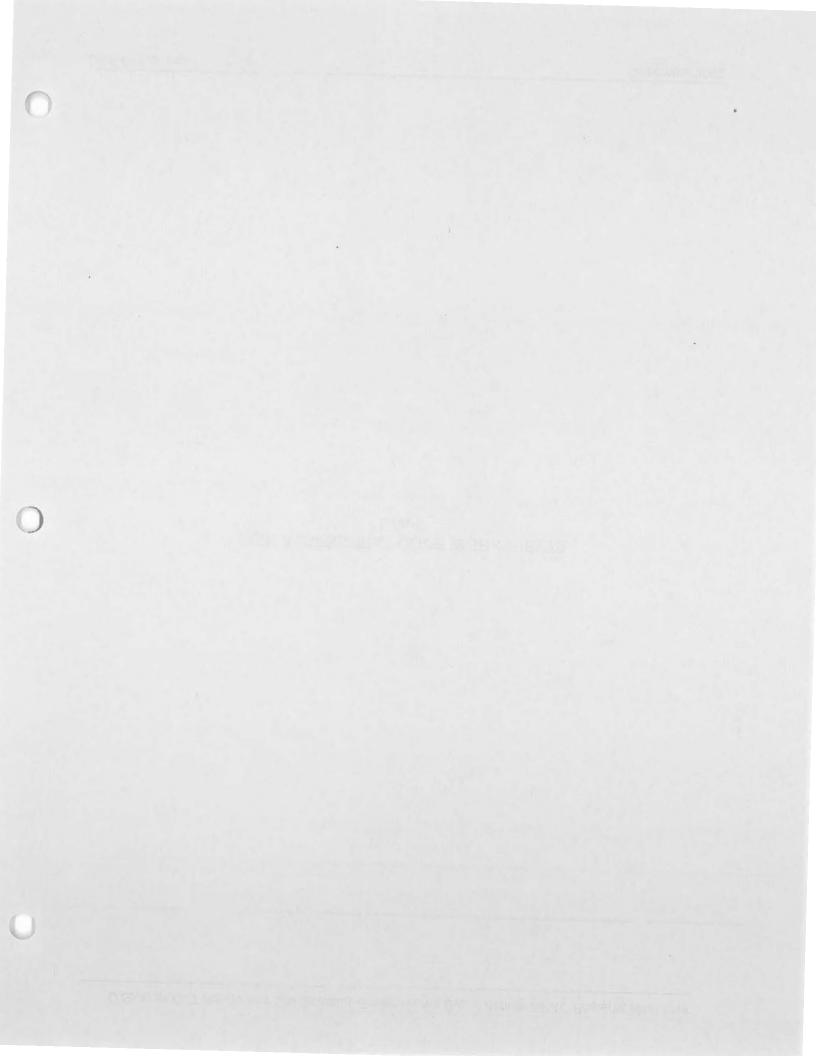
RISK ASSESSMENT CODE WORKSHEETS LTA-5

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	LTA-5	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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)

Α.	Conventional ordnance and ammunition:	VALUE
	Medium/large caliber (20mm and larger)	10
	Bombs, explosive	10
	Grenades, hand or rifle, explosive	01
	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 cal50 cal)	П
	Small arms, expended	0
	Practice ordnance (w/o spotting charges)	Ő
	Conventional ordnance and ammunition (largest single value)	1
	What evidence do you have regarding conventional UXO?	

Blank ammunition noted in several LTAs at SEAD.

1	Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other	VALU
Ì	byrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Friethylaluminum metal incendiaries)]
F	Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value)	
١	What evidence do you have regarding pyrotechnics?	
÷	Flares, smokes known to be used at LTA-5 (Reaction Course).	
-		
	Sulk High Explosives (not an integral part of conventional rdnance; uncontainerized):	VALU
	rimary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	
	nercury azide, mercury fulminate, tetracene, etc.)	,
	Pemolition charges econdary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	1
	MX, HBX, Black Powder, etc.)	
	filitary dynamite	
	ess sensitive explosives (ammonium nitrate, Explosive D, etc.)	
	ligh explosives (select the single largest value)	
n	What evidence do you have regarding bulk explosives?	
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co	ulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized):	VALU
co Sc	onventional ordnance; uncontainerized): olid or liquid propellants	
co Sc Pi	onventional ordnance; uncontainerized):	VALU
co Sc Pi	onventional ordnance; uncontainerized): olid or liquid propellants copellants	VALU
co Sc Pi W	benventional ordnance; uncontainerized): blid or liquid propellants ropellants That evidence do you have regarding bulk propellants? hemical Warfare Materiel (CWM) and Radiological Weapons:	VALU
CI	benical Warfare Materiel (CWM) and Radiological Weapons: benical agents (choking, nerve, blood, blister)	VALUI 2
Cl	benventional ordnance; uncontainerized): bild or liquid propellants ropellants That evidence do you have regarding bulk propellants? hemical Warfare Materiel (CWM) and Radiological Weapons: bild or liquid propellants bild or liquid propellants hemical agents (choking, nerve, blood, blister) ar Gas Identification Sets	VALUI 2 2
CI CI CI CI CI CI CI CI CI CI CI CI CI	benical Warfare Materiel (CWM) and Radiological Weapons: benical agents (choking, nerve, blood, blister)	VALU
Cl Cl Cl Cl Cl Cl Cl Cl Cl Cl Cl Cl Cl C	hemical Warfare Materiel (CWM) and Radiological Weapons: oxic chemical agents (choking, nerve, blood, blister) ar Gas Identification Sets diological	VALU 2 2

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

Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1: HAZARD SEVERITY*

<u>DESCRIPTION</u> CATASTROPHIC	<u>CATEGORY</u> I	HAZARD SEVERITY VALUE 21 and/or greater	
CRITICAL	11	10 to 20	·
MARGINAL	III	5 to 9	
NEGLIGIBLE	IV	1 to 4	
**NONE	V	0	
A sector Densed Sourceity Category	to Table 3		

* 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. ۰,

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)

А.	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 with the next have been recording the location of UXO and OF^2	

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

Blank ammunition and flare carcasses found on surface in some LTAs

в.	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?	

LTA is	along	SEAD's	boundary.
APA AN ID	MION 5		ooundarj.

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)	5
	Narrative:	

Types of Buildings (within a 2 mile radius): Educational, child care, residential, hospitals hotels, commercial,	VAL
shopping centers	
Industrial, warehouse, etc. Agricultural, forestry, etc.	
Detention, correctional	
No buildings	
Types of buildings (select the single largest value)	
Describe the types of buildings:	
State facilities, residences, farms, and commercial properties.	
Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VAL
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.	
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.	
Security guard, but no barrier	
Isolated site	
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).	-
Accessibility (select the single largest value)	
Describe the site accessibility:	
LTA is not separately fenced. SEAD has fence, locked gates, and guards.	

 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

 Describe the site dynamics:
 0

TOTAL HAZARD PROBABILITY VALUE (sum of largest values for A through F): <u>25</u> (maximum of 30)

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

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

TABLE 2HAZARD PROBABILITY

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.

TABLE 3						
RISK ASSESSMENT						
PROBABILI	TY	FREQUENT	PROBABLE	<u>OCCASIONAL</u>	<u>REMOTE</u>	<u>IMPROBABLE</u>
LEVEL		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>
SEVERITY						
CATEGORY:				_		
CATASTROPH	IIC 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.

LTAs have not been closely inspected, but ASR notes presence of blank ammunition and flare carcasses on ground in some LTAs. This fits with common Army practice.

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RISK ASSESSMENT CODE WORKSHEETS LTA-6

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	LTA-6	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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)

А.	Conventional ordnance and ammunition:	VALUE
	Medium/large caliber (20mm and larger)	10
	Bombs, explosive	10
	Grenades, hand or rifle, explosive	10
	Landmine, explosive	01
	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 cal50 cal)	1
	Small arms, expended	$\overline{0}$
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	1
	What evidence do you have regarding conventional UXO?	
	Blank ammunition noted in several LTAs at SEAD.	

	Pyrotechnics (for munitions not described above):	VAL
	Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable)	
	Munition containing a flame or incendiary material (i.e., Napalm,	
	Triethylaluminum metal incendiaries)	
	Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value)	
	What evidence do you have regarding pyrotechnics?	
	Flares, smokes commonly used during mock combat training exercises.	
	· · · · · · · · · · · · · · · · · · ·	
	Bulk High Explosives (not an integral part of conventional	374 8
	ordnance; uncontainerized): Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	VAL
1	mercury azide, mercury fulminate, tetracene, etc.)	
	Demolition charges	-
	Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	
	Military dynamite	
•	Less sensitive explosives (ammonium nitrate, Explosive D, etc.)	
l	High explosives (select the single largest value) What evidence do you have regarding bulk explosives?	
l	High explosives (select the single largest value)	
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Bulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized): Folid or liquid propellants	VALI
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Bulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized):	 VAL
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Bulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized): Folid or liquid propellants Propellants	VALI
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Sulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized): bolid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALU
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Bulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized): folid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: oxic chemical agents (choking, nerve, blood, blister)	VALU
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Sulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized): bolid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALU
	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Bulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: oxic chemical agents (choking, nerve, blood, blister) Var Gas Identification Sets adiological iot Control Agents (vomiting, tear)	VALU
IIV	High explosives (select the single largest value) What evidence do you have regarding bulk explosives? Bulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized): Colid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: oxic chemical agents (choking, nerve, blood, blister) Var Gas Identification Sets adiological	VALU

Apply this value to Table 1 to determine Hazard Severity Category

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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)

А.	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?	

Blank ammunition and flare carcasses found on surface in some LTAs

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

LTA is along SEAD's boundary.

С.	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)	5
	Narrative:	

D.	Types of Buildings (within a 2 mile radius):	VALUE
	Educational, child care, residential, hospitals hotels, commercial, shopping centers	5
	Industrial, warehouse, etc.	2 4
	Agricultural, forestry, etc.	3
	Detention, correctional	2
	No buildings	0
	Types of buildings (select the single largest value)	5
	Describe the types of buildings:	

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State facilities, residences, farms, and commercial properties.

E. Accessibility to site refers to access by humans to ordnance Use the following guidance: No barrier nor security system	and explosives. VALUE , S
Barrier is incomplete (e.g., in disrepair or does not completely the site). Barrier is intended to deny egress from the site, as for wire fence for grazing.	
A barrier (any kind of fence in good repair) but no separate me control entry. Barrier is intended to deny access to the site.	ans to 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 monit controls entry; or, an artificial or natural barrier (e.g., fence con with a cliff) that completely surrounds the area; and, a means to entry at all times through the gates or other entrances (e.g., an a television monitors, locked entrances, or controlled roadway ac the area).	nbined control attendant,
Accessibility (select the single largest value)	5
Describe the site accessibility:	
LTA is not separately fenced. SEAD has fence, locked gate	s, and guards

 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

TOTAL HAZARD PROBABILITY VALUE (sum of largest values for A through F): <u>25</u> (maximum of 30)

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

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT	А	27 or greater
PROBABLE	B	21 to 26
OCCASIONAL	C	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	Е	less than 8

TABLE 2HAZARD PROBABILITY

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.

TABLE 3 RISK ASSESSMENT						
PROBABILITY	<u>Y</u>	FREQUENT	PROBABLE	<u>OCCASIONAL</u>	REMOTE	<u>IMPROBABLE</u>
LEVEL		A	<u>B</u>	<u>C</u>	D	<u>E</u>
SEVERITY						
CATEGORY:						
CATASTROPHIC	I I	ł	1	2	3	4
CRITICAL	II	1	2	3	4	5
MARGINAL	III	2	В	4	4	5
NEGLIGIBLE I	V	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.

LTAs have not been closely inspected, but ASR notes presence of blank ammunition and flare carcasses on ground in some LTAs. This fits with common Army practice.

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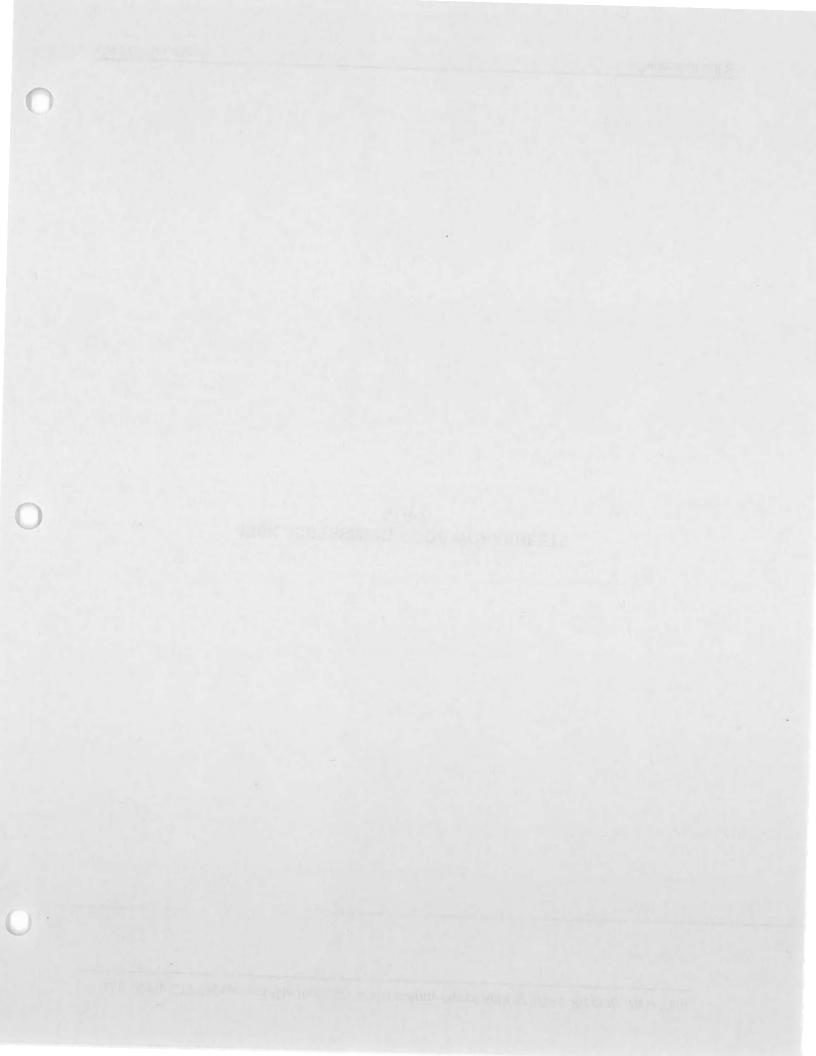
RISK ASSESSMENT CODE WORKSHEETS LTA-7

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	LTA-7	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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 cal50 cal)	1
	Small arms, expended	$\overline{0}$
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	1

What evidence do you have regarding conventional UXO?

Blank ammunition noted in several LTAs at SEAD. LTA-7 may contain kick-outs from EOD Range 1 and Demolition Range, since safety (QD) zone covers much of the area

Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other	VA
pyrophoric material (i.e., spontaneously flammable)	
Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries)	
Flares, signals, simulators, screening smokes (other than WP)	
Pyrotechnics (select the single largest value)	_
What evidence do you have regarding pyrotechnics?	
Flares, smokes commonly used during mock combat training exercises.	
Bulk High Explosives (not an integral part of conventional	
ordnance; uncontainerized): Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	VAI
mercury azide, mercury fulminate, tetracene, etc.)	
Demolition charges	
Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	
HMX, HBX, Black Powder, etc.) Military dynamite	
Less sensitive explosives (ammonium nitrate, Explosive D, etc.)	
High explosives (select the single largest value)	
Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants	VAL
conventional ordnance; uncontainerized):	VAL
conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons:	VAL
conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: Foxic chemical agents (choking, nerve, blood, blister)	
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conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: Foxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)	
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Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1: HAZARD SEVERITY*

DESCRIPTION CATASTROPHIC CRITICAL MARGINAL NEGLIGIBLE **NONE * Apply Hazard Severity Category	HAZARD SEVERITY VALUE 21 and/or greater 10 to 20 5 to 9 1 to 4 0 bis form. Proceed to Part III and use a RAC score of 5 to determine your
	is form. Proceed to Part III and use a RAC score of 5 to determine your

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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)

		,
Α.	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 without to not have seen the tast the last the other of the other set of the sector of the sect	

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

Blank ammunition and flare carcasses found on surface in some LTAs

в.	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?	

LTA is along SEAD's boundary.

С.	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)	5
	Narrative:	

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)	5
	Describe the types of buildings:	
	State facilities, residences, farms, and commercial properties.	

Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	value
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	I
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)	5
Describe the site accessibility:	
LTA is not separately fenced. SEAD has fence, locked gates, and guards.	

Site Dynamics. This deals with site conditions that are subject to change in the F. 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 None anticipated Site Dynamics (select the single largest value) **Describe the site dynamics:**

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

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

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT	А	27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	E	less than 8

TABLE 2 HAZARD PROBABILITY

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.

TABLE 3					
RISK ASSESSMENT					
FREQUENT	<u>PROBABLE</u>	<u>OCCASIONAL</u>	<u>REMOTE</u>	IMPROBABLE	
A	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	
l	1	2	3	4	
1	2	3	4	5	
2	3	4	4	5	
3	4	4	5	5	
	FREQUENT A l l 2 3	RISK ASSES	RISK ASSESSMENT	RISK ASSESSMENT	

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.

LTAs have not been closely inspected, but ASR notes presence of blank ammunition and flare

carcasses on ground in some LTAs. This fits with common Army practice.

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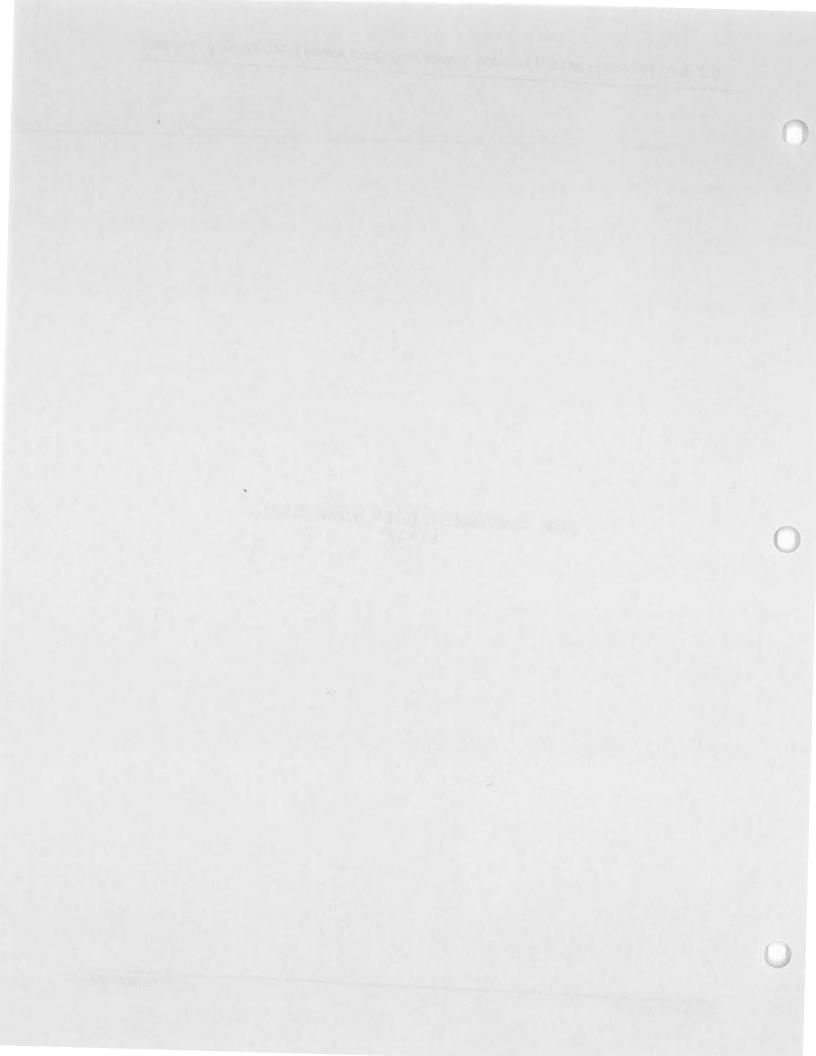
U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

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RISK ASSESSMENT CODE WORKSHEETS LTA-IV

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	LTA-IV	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	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)

Α.	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 cal50 cal)	ที่
	Small arms, expended	
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	0
	What evidence do you have regarding conventional UXO ?	

What evidence do you have regarding conventional UXO?

Blank ammunition noted in several LTAs at SEAD. No information was available on LTA-IV, so use analogy to other LTAs

N P N T F P V	yrotechnics (for munitions not described above): Aunition (containers) containing white phosphorus (WP) or other yrophoric material (i.e., spontaneously flammable) Aunition containing a flame or incendiary material (i.e., Napalm, 'riethylaluminum metal incendiaries) lares, signals, simulators, screening smokes (other than WP) yrotechnics (select the single largest value) What evidence do you have regarding pyrotechnics? Flares, smokes commonly used during mock combat training exercises.	VALU
_		
0	ulk High Explosives (not an integral part of conventional rdnance; uncontainerized): rimary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	VALU
m D	ercury azide, mercury fulminate, tetracene, etc.) emolition charges	
Η	condary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, MX, HBX, Black Powder, etc.) ilitary dynamite	
Le	ess sensitive explosives (ammonium nitrate, Explosive D, etc.) igh explosives (select the single largest value)	
W 	hat evidence do you have regarding bulk explosives?	
co	alk propellants (not an integral part of rockets, guided missiles, or other nventional ordnance; uncontainerized): lid or liquid propellants	VALU
	opellants hat evidence do you have regarding bulk propellants?	
**		
Ch	emical Warfare Materiel (CWM) and Radiological Weapons: xic chemical agents (choking, nerve, blood, blister)	VALUI 2
Ch To Wa Ra Ric		

TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): <u>5</u> (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1:HAZARD SEVERITY*

DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE	
CATASTROPHIC	Ι	21 and/or greater	
CRITICAL	11	10 to 20	
MARGINAL	111	5 to 9	
NEGLIGIBLE	IV	1 to 4	
**NONE	V	0	
* 1 11 10 10 000000	1. T.L.		

* 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	
	Location (select the single largest value)	5
	What evidence do you have regarding the location of UXO and OE?	

Blank ammunition and flare carcasses found on surface in some LTAs

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	<u> </u>
	Distance (select the single largest value)	5
	What are the nearest inhabited structures/buildings?	

LTA is along SEAD's boundary.

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) <u>Narrative:</u>	5

 No barrier nor security system 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. 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. Security guard, but no barrier Isolated site 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 	
Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: V No barrier nor security system V 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. V 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. Security guard, but no barrier Isolated site 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	
Use the following guidance:VNo barrier nor security system,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.,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.,Security guard, but no barrierIsolated siteA 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	
 the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. 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. Security guard, but no barrier Isolated site 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 	ALUE 5
 control entry. Barrier is intended to deny access to the site. Security guard, but no barrier Isolated site 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 	4
Isolated site 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	3
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	2
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)	
Describe the site accessibility:	5

Site Dynamics. This deals with site conditions that are subject to change in the F. 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 VALUE distances from the site to inhabited areas or otherwise increase accessibility. Expected None anticipated Site Dynamics (select the single largest value) Describe the site dynamics:

5 0

0

TOTAL HAZARD PROBABILITY VALUE (sum of largest values for A through F): <u>25</u> (maximum of 30)

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

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

TABLE 2HAZARD PROBABILITY

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.

TABLE 3						
RISK ASSESSMENT						
PROBABILI	TY	FREQUENT	<u>PROBABLE</u>	<u>OCCASIONAL</u>	<u>REMOTE</u>	IMPROBABLE
LEVEL		A	<u>B</u>	<u>C</u>	D	E
SEVERITY						
CATEGORY:						
CATASTROPH	IIC I	I	I	2	3	4
CRITICAL	II	1	2	3	4	5
MARGINAL	ш	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.

LTAs have not been closely inspected, but ASR notes presence of blank ammunition and flare carcasses on ground in some LTAs. This fits with common Army practice.

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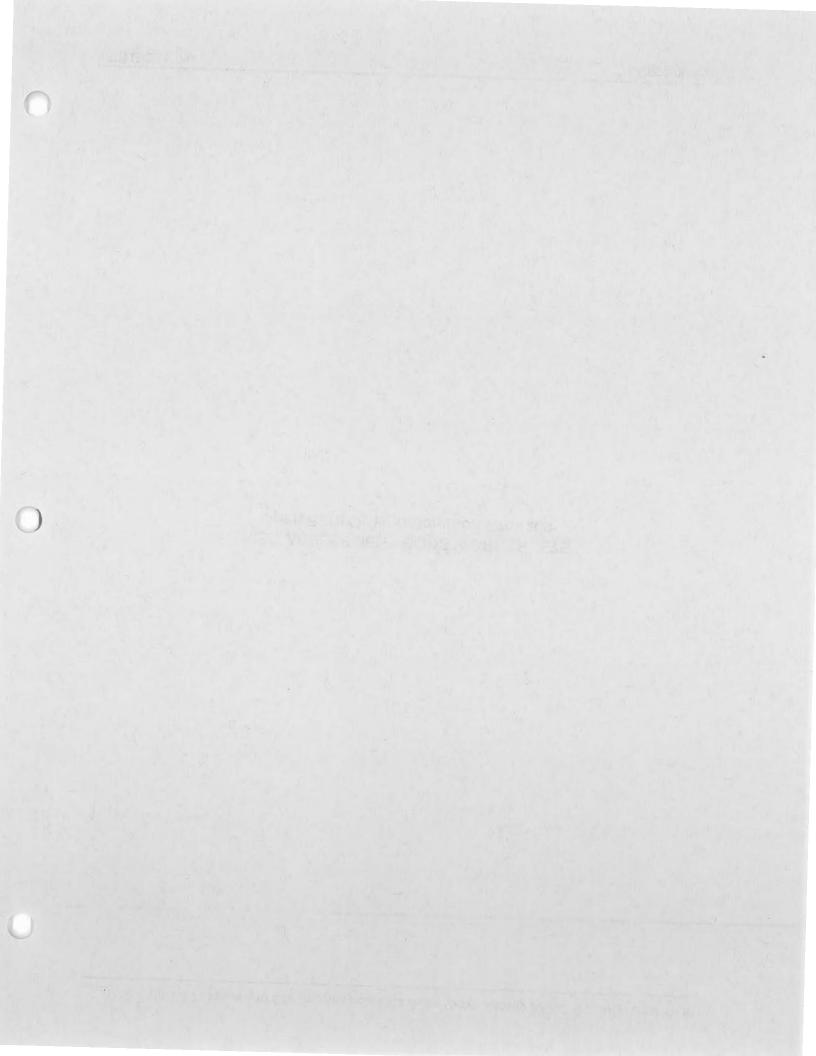
RISK ASSESSMENT CODE WORKSHEETS Open Burn/Open Detonation Grounds

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	OB/OD Grounds	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	Score	1

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)

А.	Conventional ordnance and ammunition:	VALUE
	Medium/large caliber (20mm and larger)	10
	Bombs, explosive	. 10
	Grenades, hand or rifle, explosive	01
	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 cal50 cal)	1
	Small arms, expended	$\overline{0}$
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	10
	What evidence do you have regarding conventional UXO?	

Detonation of munitions (i.e., bombs) was conducted on this range. Remnants and UXO of small to large caliber munitions and grenades have been found at the site.

		1 7 A T
Pyrotechnics (for munitions not e Munition (containers) containing w		VAL
pyrophoric material (i.e., spontane	· ·	
Munition containing a flame or inc	•	
Triethylaluminum metal incendiari		
Flares, signals, simulators, screening	-	
Pyrotechnics (select the single lar	gest value)	
What evidence do you have regain		
Items found on-site, including fl	ares and live 105mm shell containing WP.	
	· · · · · · ·	
Bulk High Explosives (not an inte ordnance; uncontainerized):	egral part of conventional	VAL
· · · · ·	ad styphnate, lead azide, nitroglycerin,	YAD
mercury azide, mercury fulminate,		
Demolition charges		
5	positions A, B, C, Tetryl, TNT, RDX,	I
HMX, HBX, Black Powder, etc.)		
Military dynamite		
Less sensitive explosives (ammoniu	m nitrate, Explosive D, etc.)	
High explosives (select the single l		
What evidence do you have regard	ding bulk explosives?	
Interview information in ASR.		
	part of rockets, guided missiles, or other	VALL
conventional ordnance; uncontain		VALU
conventional ordnance; uncontain Solid or liquid propellants		VALU
Buik propellants (not an integral j conventional ordnance; uncontain Solid or liquid propellants Propellants What evidence do you have regard	erized):	VALU
conventional ordnance; uncontain Solid or liquid propellants Propellants	erized):	VALU
conventional ordnance; uncontain Solid or liquid propellants Propellants What evidence do you have regard Chemical Warfare Materiel (CWN	erized): ding bulk propellants? 	VALU
conventional ordnance; uncontain Solid or liquid propellants Propellants What evidence do you have regard Chemical Warfare Materiel (CWN Foxic chemical agents (choking, ner	erized): ding bulk propellants? 	VALU
Chemical Warfare Materiel (CWN Foxic chemical agents (choking, ner War Gas Identification Sets	erized): ding bulk propellants? 	VALU
Chemical Warfare Materiel (CWN Foxic chemical agents (choking, ner War Gas Identification Sets Radiological	Al and Radiological Weapons: ve, blood, blister)	VALU
conventional ordnance; uncontain Solid or liquid propellants Propellants What evidence do you have regard Chemical Warfare Materiel (CWN Foxic chemical agents (choking, ner War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)	Aling bulk propellants?	VALU
conventional ordnance; uncontain Solid or liquid propellants Propellants What evidence do you have regard Chemical Warfare Materiel (CWN Foxic chemical agents (choking, ner War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear) Chemical and Radiological (select	erized): ding bulk propellants?	VALU
conventional ordnance; uncontain Solid or liquid propellants Propellants What evidence do you have regard Chemical Warfare Materiel (CWN Foxic chemical agents (choking, ner War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)	erized): ding bulk propellants?	VALU
conventional ordnance; uncontain Solid or liquid propellants Propellants What evidence do you have regard Chemical Warfare Materiel (CWN Foxic chemical agents (choking, ner War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear) Chemical and Radiological (select	erized): ding bulk propellants?	VALU

TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): <u>20</u> (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE
CATASTROPHIC	I	21 and/or greater
CRITICAL	II	10 to 20
MARGINAL	III	5 to 9
NEGLIGIBLE	IV	I to 4
**NONE	V	0
 Apply Hazard Severity Category **If hazard severity value is 0, you appropriate action. 	to Table 3 do not need to complete Part II of th	nis form. Proceed to Part III and use a RAC score of 5 to determine your
		*

TABLE 1: HAZARD SEVERITY*

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)

А.	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?

UXO found on surface and geophysical anomalies detected at depth.

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	
	Distance (select the single largest value)	5
	What are the nearest inhabited structures/buildings?	
	Located 0.5 mile away from the highway.	

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
	- II to 15	3
	6 to 10	2
	1 to 5	1
	0	0
	Number of buildings (select the single largest value)	5

Narrative:

There are numerous houses/farmhouses within this 2-mile radius. There is also a	
juvenile corrections facility to the northeast of this range.	

Types of Buildings (within a 2 mile radius): Educational, child care, residential, hospitals hotels, commercial, shopping centers	VALU
Industrial, warehouse, etc.	4
Agricultural, forestry, etc. Detention, correctional	2
No buildings	Ľ
Types of buildings (select the single largest value)	5
Describe the types of buildings:	
Farmhouses	
Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALUE 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
solated 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, elevision monitors, locked entrances, or controlled roadway access to he area).	0
Accessibility (select the single largest value)	3
Describe the site accessibility:	
The OB/OD Grounds is fenced and gated. Installation is fenced, gated, guarded.	
Site Dynamics. This deals with site conditions that are subject to change in the uture, but may be stable at the present. Examples would be excessive soil erosion in beaches or streams and increasing land development that could reduce listances from the site to inhabited areas or otherwise increase accessibility. Expected None anticipated	VALUE
ite Dynamics (select the single largest value)	

Describe the site dynamics:

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

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

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.			

TABLE 2

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.

TABLE 3						
			RISK ASSES	SMENT		
PROBABILI	TY	FREQUENT	PROBABLE	<u>OCCASIONAL</u>	REMOTE	IMPROBABLE
<u>LEVEL</u>		A	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>
SÉVÉRITY						
CATEGORY:			_		_	
CATASTROPH	IIC I	1	1	2	3	4
CRITICAL	11	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.

Numerous UXO HE items found during EE/CA investigation.

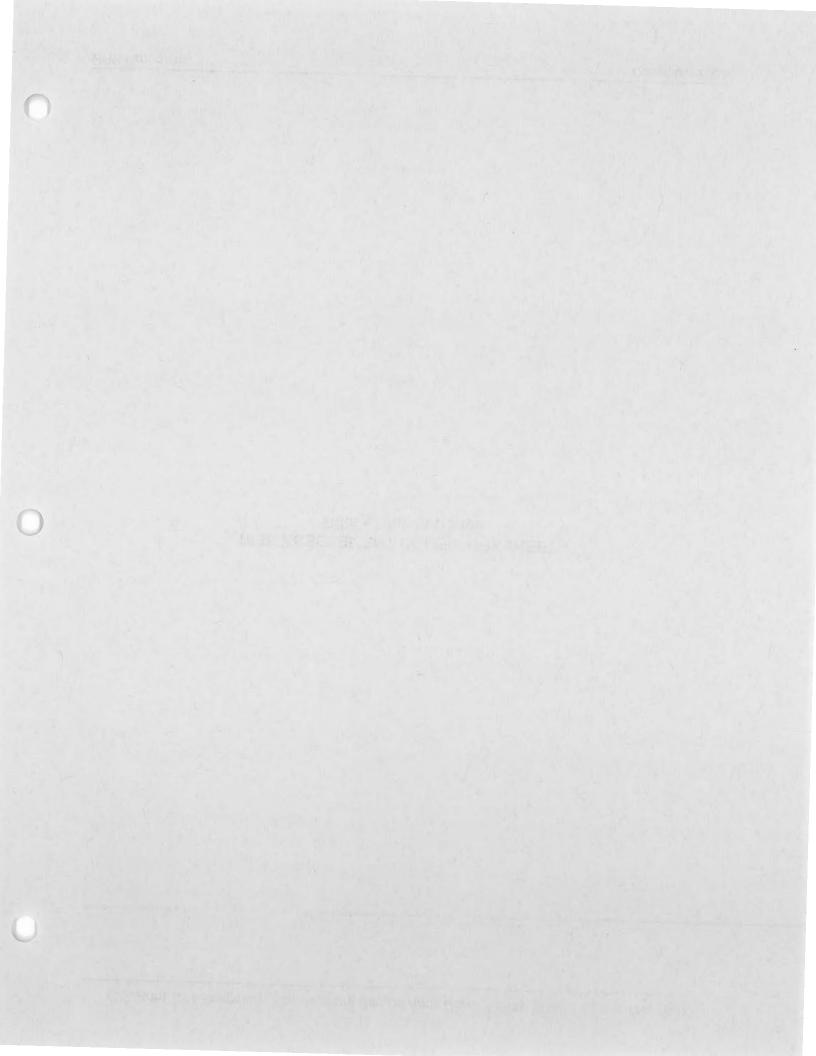
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RISK ASSESSMENT CODE WORKSHEETS Rifle Grenade Range

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	Rifle Grenade Range	Rater's Name	C. Wieland
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	Score	2

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 ammuni	ition: VA	LUE
Medium/large caliber (20mm and large	er)	10
Bombs, explosive		10
Grenades, hand or rifle, explosive		10
Landmine, explosive		10
Rockets, guided missile, explosive		10
Detonators, blasting caps, fuzes, booste	ers, bursters	6
Bombs, practice (w/spotting charges)		6
Grenades, practice (w/spotting charges))	4
Landmine, practice (w/spotting charges	3)	4
Small arms, complete round (.22 cal5	i0 cal)	1
Small arms, expended		Ö
Practice ordnance (w/o spotting charges	s)	0
Conventional ordnance and ammunit	tion (largest single value)	10
What evidence do you have regarding	g conventional UXO?	

Live 35mm subcaliber rounds and blank small arms ammunition found during EE/CA.

	Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm,	VAL
]	Friethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other than WP)	
	Pyrotechnics (select the single largest value) What evidence do you have regarding pyrotechnics?	
-		
-	Bulk High Explosives (not an integral part of conventional	
0	rdnance; uncontainerized):	VALU
	rimary or initiating explosives (lead styphnate, lead azide, nitroglycerin,	
	nercury azide, mercury fulminate, tetracene, etc.) Demolition charges	*
S	econdary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	
	IMX, HBX, Black Powder, etc.)	
	filitary dynamite ess sensitive explosives (ammonium nitrate, Explosive D, etc.)	
	ligh explosives (select the single largest value)	
y	hat evidence do you have regarding bulk explosives?	
CO	ulk propellants (not an integral part of rockets, guided missiles, or other onventional ordnance; uncontainerized): blid or liquid propellants	VALU
P	ropellants	
	'hat evidence do you have regarding bulk propellants?	
	nemical Warfare Materiel (CWM) and Radiological Weapons:	VALU
	oxic chemical agents (choking, nerve, blood, blister) ar Gas Identification Sets	2
	diological	1
	ot Control Agents (vomiting, tear) nemical and Radiological (select the single largest value)	
	hat evidence do you have regarding chemical or radiological?	
Ri Cl	ot Control Agents (vomiting, tear) nemical and Radiological (select the single largest value)	

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TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): <u>10</u> (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1:HAZARD SEVERITY*

DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE	
CATASTROPHIC	I	21 and/or greater	
CRITICAL	II	10 to 20	
MARGINAL	111	5 to 9	
NEGLIGIBLE	IV	1 to 4	
**NONE	V	0	
A A NUTLING & Constant Conserver	uo Tabla 2		

* 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
	With a tarifdeness do not have recording the location of UVO and OF?	

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

Over 100 U	JXO found	on surface	by EE/CA.

B. Distance to nearest inhabited location/structure likely to be at risk from the UXO or OE hazard (road, park, playground, building, etc.): Less than 1,250 feet

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?	

VALUE

5

Houses and commercial buildings of town of Romulus.

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

High number of buildings: town of Romulus, SEAD structures.

D.	Types of Buildings (within a 2 mile radius):	VALUE
	Educational, child care, residential, hospitals hotels, commercial, shopping centers	5
	Industrial, warehouse, etc.	14
	Agricultural, forestry, etc.	3
	Detention, correctional	2
	No buildings	0
	Types of buildings (select the single largest value)	5
	Describe the types of buildings:	
	Schools, residences, commercial.	

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Accessibility to site refers to access by humans to ordnance and explosiv Use the following guidance: No barrier nor security system	es. VALUE 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)	5
Describe the site accessibility:	
No range fence. Installation is fenced, gated, guarded.	

 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

 Describe the site dynamics:
 0

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

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

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT	А	27 or greater
PROBABLE	B	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	E	less than 8

TABLE 2HAZARD PROBABILITY

25

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.

TABLE 3						
RISK ASSESSMENT						
PROBABILI	TY	FREQUENT	PROBABLE	<u>OCCASIONAL</u>	REMOTE	IMPROBABLE
<u>LEVEL</u>		A	<u>B</u>	<u>C</u>	D	<u>E</u>
SEVERITY						
CATEGORY:						
CATASTROPH	IC 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 I 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.

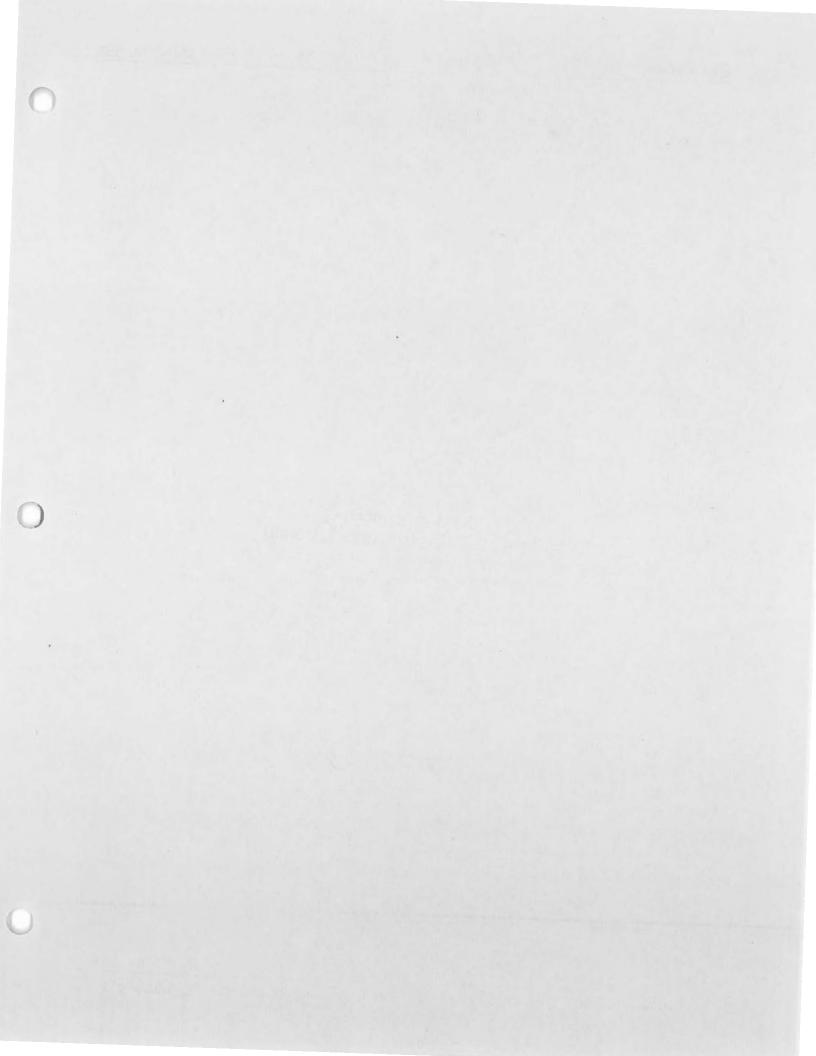
Risk is based on discovery of UXO by EE/CA.

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RISK ASSESSMENT CODE WORKSHEETS Sampson Rifle Range

Were way CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	Sampson Rifle Range	Rater's Name	Jusbyn Lockard
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Closed	Organization	URS Group, Inc.
Date Completed	July 2002	Score	55

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 cal50 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?	

ASR inspectors did not find any unexpended ammunition at this site.

Pyrotechnics (for munitions not described above):	VALU
Munition (containers) containing white phosphorus (WP) or other	
pyrophoric material (i.e., spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm,	
Triethylaluminum metal incendiaries)	
Flares, signals, simulators, screening smokes (other than WP)	
Pyrotechnics (select the single largest value)	
What evidence do you have regarding pyrotechnics?	
Bulk High Explosives (not an integral part of conventional	
ordnance; uncontainerized):	VALU
Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin mercury azide, mercury fulminate, tetracene, etc.)	,]
Demolition charges	· 1
Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX	
HMX, HBX, Black Powder, etc.)	,
Military dynamite	
Less sensitive explosives (ammonium nitrate, Explosive D, etc.)	
High explosives (select the single largest value)	
What evidence do you have regarding bulk explosives?	
Bulk propellants (not an integral part of rockets, guided missiles, or	
conventional ordnance; uncontainerized):	VALU
Solid or liquid propellants Propellants	
What evidence do you have regarding bulk propellants?	
Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALU
	2: 20
Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets	20
War Gas Identification Sets	14
War Gas Identification Sets Radiological	15
War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)	

.

TOTAL HAZARD SEVERITY VALUE (Sum of values A through E): ____0 (maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category

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.

3

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)

Α.	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)	0
	What and do not have a souther the last the start of LIVO and OF?	

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

В.	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)	0		
	What are the manual inholited at mature for it diverge			

What are the nearest inhabited structures/buildings?

С.	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) Narrative:	0

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

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Describe the types of buildings:

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Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALU ,
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.	
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.	
Security guard, but no barrier	
Isolated site	
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).	
Accessibility (select the single largest value)	
Describe the site accessibility:	

 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

 Describe the site dynamics:
 0

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

DESCRIPTION	LEVEL	
	LEVEL	<u>HAZARD PROBABILITY VALUE</u>
FREQUENT	А	27 or greater
PROBABLE	В	21 to $\overline{26}$
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	E	less than 8
*Apply Hazard Probability	Level to Table 3.	

TABLE 2 HAZARD PROBABILITY

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.

TABLE 3						
			RISK ASSES	SMENT		
PROBABIL.	ITY	FREQUENT	PROBABLE	OCCASIONAL	REMOTE	IMPROBABLE
<u>LEVEL</u>		A	<u>B</u>	C	D	E
SEVERITY						-
CATEGORY:						
CATASTROPH	IIC I	1	1	2	3	4
CRITICAL	п	Ι	2	3	4	5
MARGINAL	III	2	3	4	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC):

RAC I 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.

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U.S. Army CTT Range and Site Inventory Seneca Army Depot Activity BRAC Property, New York

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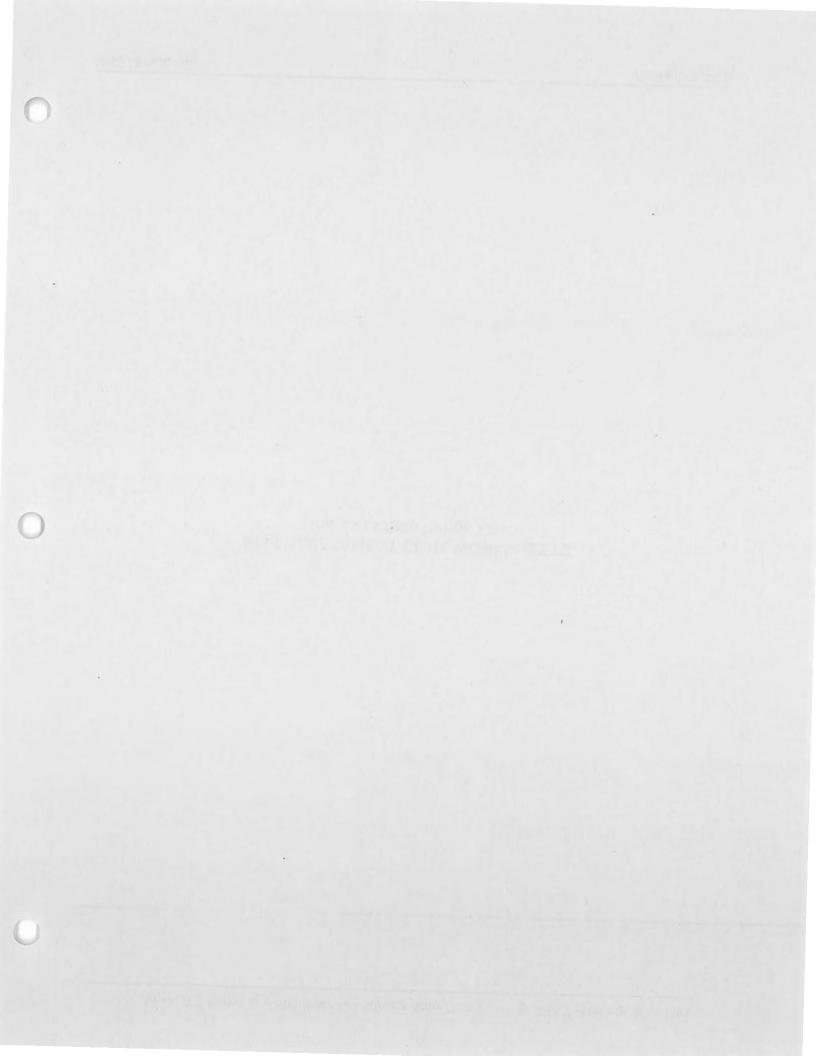
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RISK ASSESSMENT CODE WORKSHEETS Sampson Rifle Range XD1

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THE RISK ASSESSMENT CODE FOR ORDNANCE AND EXPLOSIVES SITES

Site Name	Sampson Rifle Range XD1	Rater's Name	Jusbyn Lockard
Site Location	Seneca Army Depot	Phone Number	(865) 483-9870
Range Classification	Transferred	Organization	URS Group, Inc.
Date Completed	July 2002	Score	5

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 cal50 cal)	1
	Small arms, expended	0
	Practice ordnance (w/o spotting charges)	0
	Conventional ordnance and ammunition (largest single value)	Ö
	What evidence do you have regarding conventional UXO?	

ASR inspectors did not find any unexpended ammunition at this site.

Pyrotechnics (for munitions not described above): Munition (containers) containing white phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable)	VALU 1
Munition containing a flame or incendiary material (i.e., Napalm,	
Triethylaluminum metal incendiaries)	
Flares, signals, simulators, screening smokes (other than WP) Pyrotechnics (select the single largest value)	
What evidence do you have regarding pyrotechnics?	
	······································
Bulk High Explosives (not an integral part of conventional	
ordnance; uncontainerized):	VALU
Primary or initiating explosives (lead styphnate, lead azide, nitroglycerin, mercury azide, mercury fulminate, tetracene, etc.)	1
Demolition charges	, 1
Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX,	
HMX, HBX, Black Powder, etc.)	
Military dynamite	
Less sensitive explosives (ammonium nitrate, Explosive D, etc.) High explosives (select the single largest value)	
What evidence do you have regarding bulk explosives?	
Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized): Solid or liquid propellants Propellants	(
conventional ordnance; uncontainerized): Solid or liquid propellants	
conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? 	VALUE
conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister)	VALUE 25
conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? 	VALUE VALUE 25 20 15
conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)	VALUE 25 20 15
<pre>conventional ordnance; uncontainerized): Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological</pre>	VALUF 22 20 15

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

Apply this value to Table 1 to determine Hazard Severity Category

TABLE 1: **HAZARD SEVERITY***

DESCRIPTION	CATECODY	
DESCRIPTION	<u>CATEGORY</u>	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.

'n.

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) .

А.	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)	

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

В.	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	Ι			
	Distance (select the single largest value)	0			
	What are the nearest inhabited structures/buildings?				

What are the nearest inhahited structures/buildings?

С.	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) Narrative:	0			

D.	Types of Buildings (within a 2 mile radius): Educational, child care, residential, hospitals hotels, commercial,	VALUE
	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:	

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Accessibility to site Use the following g No barrier nor secur		VALUE
-	e (e.g., in disrepair or d oes not completely surround ntended to deny egress from the site, as for a barbed ng.	4
	of fence in good repair) but no separate means to r is intended to deny access to the site.	3
Security guard, but r	no barrier	2
Isolated site		1
surveillance by guar controls entry; or, an with a cliff) that corr entry at all times thro	ace system (e.g., television monitoring or ds or facility personnel continuously monitors and a artificial or natural barrier (e.g., fence combined apletely surrounds the area; and, a means to control bugh the gates or other entrances (e.g., an attendant, locked entrances, or controlled roadway access to	0
Accessibility (select	the single largest value)	0
Describe the site ac	cessibility:	

 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

 Describe tbe site dynamics:
 1

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

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

DESCRIPTION	LEVEL	HAZARD PROBABILITY VALUE
FREQUENT	A	27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	Е	less than 8
*Apply Hazard Probability	Level to Table 3.	

TABLE 2 HAZARD PROBABILITY

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.

TABLE 3							
RISK ASSESSMENT							
PROBABIL	PROBABILITY FREQUENT PROBABLE OCCASIONAL REMOTE IMPROBABLE						
<u>LEVEL</u>		<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	E	
SEVERITY							
CATEGORY:							
CATASTROPHIC I		1	1	2	3	4	
CRITICAL	H	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.

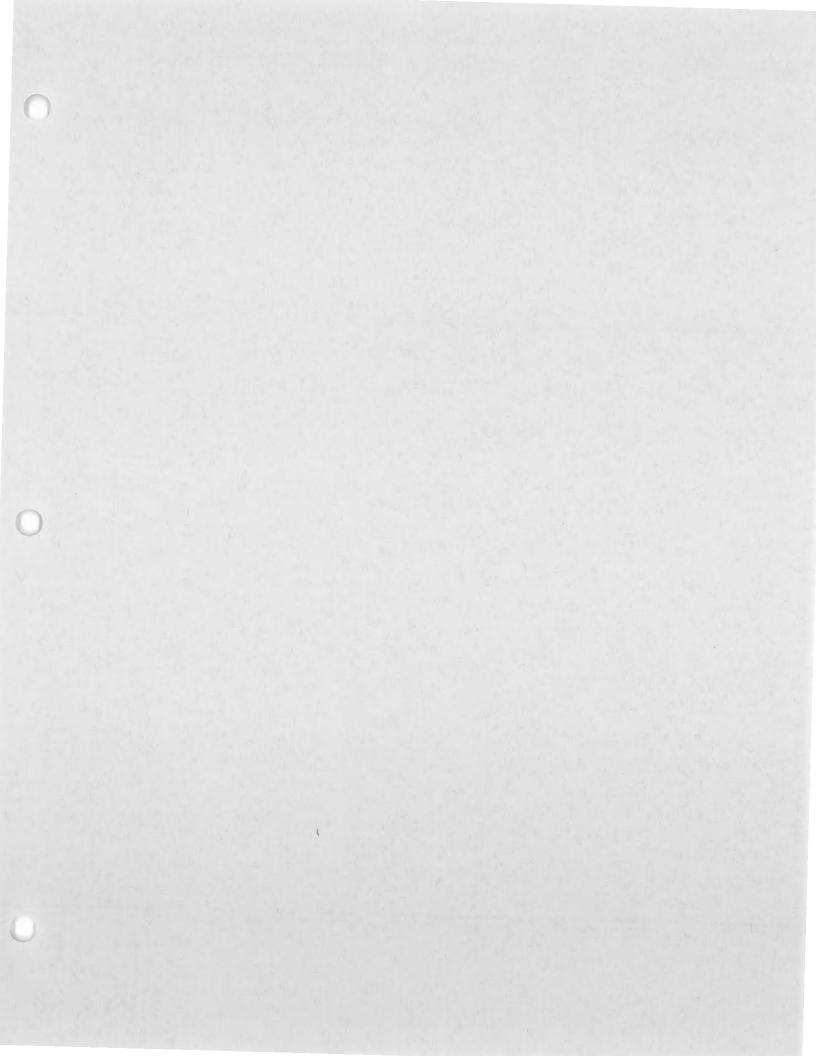
RAC 5 Negligible Risk - No explosive related action necessary.

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.

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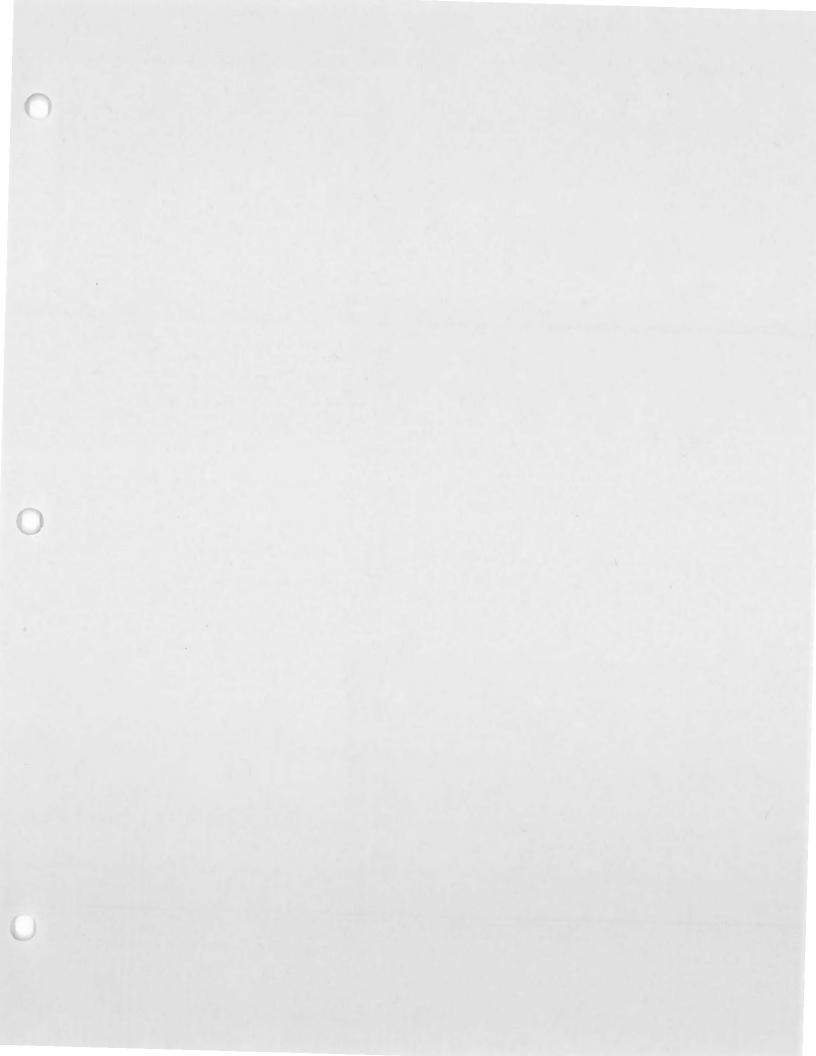
H. DIGITAL FILES

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A compact disc that contains the CTT inventory electronic geographic information system (GIS) and map files will be included in this section of the final report. The ARID files will be provided to AEC for uploading with submittal of the final report.

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I. DOCUMENT LOG

Reports

Parsons Engineering Science, Inc. Canton, MA. Engineering Evaluation/Cost Analysis Seneca Army Depot Romulus, NY. May 2001

Thomas F. Grasek. Army Advance Range Survey 2001.

USACE, Rock Island District. Ordnance and Explosives Archives Search Report for Seneca Army Depot Activity, Romulus, New York. Volumes 1 and 2, Revised Final, March 1999.

Maps

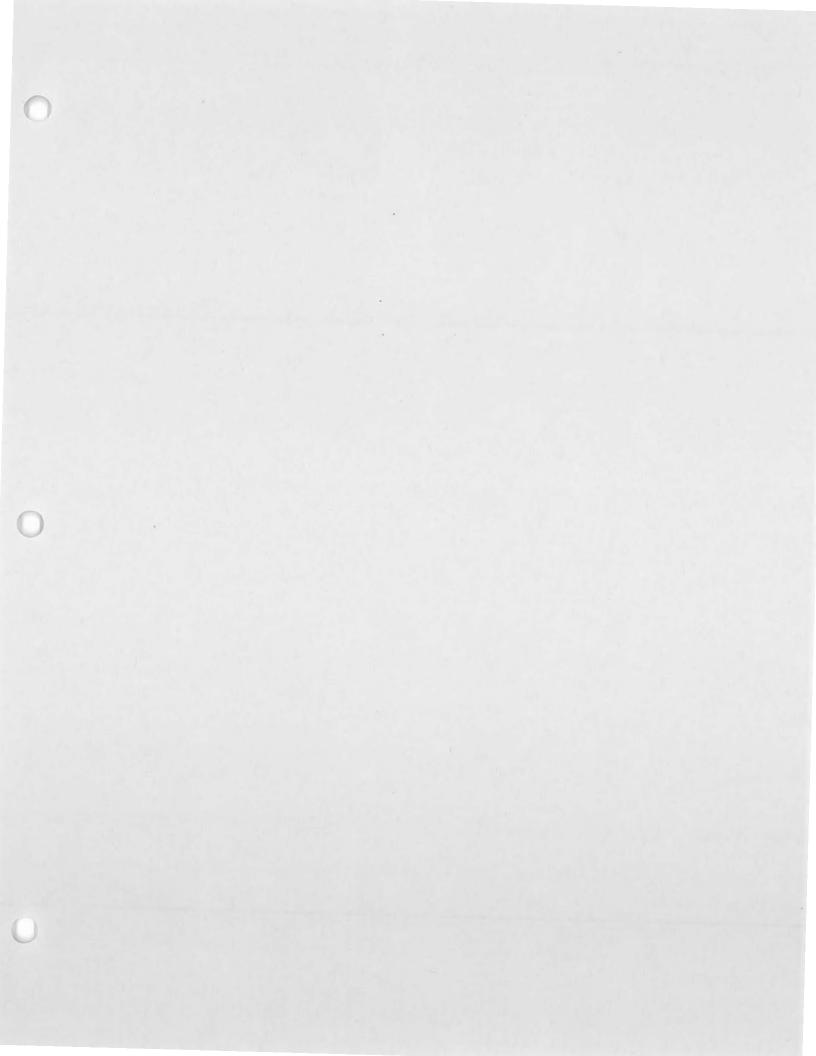
- USACE. *Ranges at S.E.A.D*, Seneca Army Depot, Romulus, New York, May 29, 1987.
- Office of the Post Engineer, Seneca Army Depot. *Detail Site Plan showing, surface danger zone at small arms firing range and riot gun familiarization firing range.* DWG. No. 25-73. August 3, 1973.
- U.S. Fish and Wildlife Services. Hadley, MA, for Seneca Army Depot. *Wetlands using the Cowardin System.* UTM NAD 27, Zone 18. March 2000.
- Office of the Facilities Engineer, Seneca Army Depot. SEAD Grid Map, Helicopter landing zones. November 23, 1988.
- STV/Lyon Associates, Inc. Baltimore, Maryland. Land Use Plan. October 1990.
- Office of the Facilities Engineer, Seneca Army Depot. *Site Safety Plan: Small Arms Range*, DWG. NO. 45-84. August 29, 1984.
- Aerial Photograph depicting the southwestern portion of the base. No date or name associated with this photograph.
- USACE. Sewer and Drainage Systems. June 30, 1943.
- Department of the Air Force, Washington D.C. Special Facilities Recreation and Training Sampson Air Force Base. February 27, 1955
- Office of the Post Engineer, Seneca Army Depot. Surface Danger Zone at Small Arms Firing Range. DWG. NO.-25-73. August 3, 1973.

- Department of the Air Force, Washington D.C. *Recreation and training, Sampson Air Force Base*. Master Planning Directive: Simpson AFB 53-1. February 27, 1955.
- STV/Lyon Associates, Inc. Baltimore, Maryland. *Reservation Map.* DWG NO 4468-01-62. March 1988.

Lyon Associates, Inc. Military Training Areas. Jan 6, 1989.

- Karslen, Michael D. Licensed Land Surveyor. Area Reserved for U.S. Army Enclave Ore Pile Warehouse Area Seneca Army Depot
- Karslen, Michael D. Site #4: Surveyed for U.S. Army Enclave Ore Pile Igloo Area, Seneca Army Depot.
- Karlsen, Michael D. Site #2 Area Reserved for U.S. Army Enclave Ore Pile Warehouse Area Seneca Army Depot.
- Karlsen, Michael D. Site #1 Area Reserved for U.S. Army Enclave Hazardous Materials Warehouses Building # 356 & Building # 357, Seneca Army Depot. February 14, 2001.

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J. NOTES

The stewardship table is included in this section. The table shows the natural and cultural resources present at the range or UXO-DMM-MC site.

The acreage of the installation was reported differently by different sources. Tables provided by AEC reported 10,594 acres; however, the reservation map from the 1988 Master Plan indicates that the total acreage for SEAD is 10,587 acres. The ASR reported the installation as encompassing 10,622.8 acres, and that figure was used in this report.

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Stewardship Table

Natural and Cultural Resources:

INSTALLATION	FID	RANGENAME	SPECIAL STATUS SPECIES	CULTURAL RESOURCES
SENECA DEPOT ACTIVITY	NY213820830	40 MM GRENADE RANGE XD	None known	None known
SENECA DEPOT ACTIVITY	NY213820830	ABANDONED DEACTIVATION FURNACE	None known	None known
SENECA DEPOT ACTIVITY	NY213820830	ABANDONED POWDER BURN AREA	None known	None known
SENECA DEPOT ACTIVITY	NY213820830	BAZOOKA RANGE	None known	None known
SENECA DEPOT ACTIVITY	NY213820830	DEMOLITION RANGE	None known	None known
SENECA DEPOT ACTIVITY	NY213820830	E.O.D RANGE 1	None known	None known
SENECA DEPOT ACTIVITY	NY213820830	E.O.D RANGE 2	None known	None known
SENECA DEPOT ACTIVITY	NY213820830	E.O.D RANGE 3	None known	None known
SENECA DEPOT ACTIVITY	NY213820830	EXISTING DEACTIVATION FURNACE	None known	None known
SENECA DEPOT ACTIVITY	NY213820830	FUNCTION TEST RANGE XD	None known	None known
SENECA DEPOT ACTIVITY	NY213820830	LTA-1 XD	None known	None known

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Stewardship Table

Natural and Cultural Resources:

Natural and Cultural Resources:						
INSTALLATION	FFID	RANGE NAME	SPECIAL STATUS SPECIES	CULTURAL RESOURCES		
SENECA DEPOT ACTIVITY	NY213820830	LTA-2 (III)	None known	None known		
SENECA DEPOT ACTIVITY	NY213820830	LTA-3 (II)	None known	None known		
SENECA DEPOT ACTIVITY	NY213820830	LTA-4 (I)	None known	None known		
SENECA DEPOT ACTIVITY	NY213820830	LTA-4 XD	None known	None known		
SENECA DEPOT ACTIVITY	NY213820830	LTA-5	None known	None known		
SENECA DEPOT ACTIVITY	NY213820830	LTA-6	None known	None known		
SENECA DEPOT ACTIVITY	NY213820830	LTA-7	None known	None known		
SENECA DEPOT ACTIVITY	NY213820830	LTA-IV	None known	None known		
SENECA DEPOT ACTIVITY	NY213820830	OPEN BURN/OPEN DETONATION GROUNDS	None known	None known		
SENECA DEPOT ACTIVITY	NY213820830	RIFLE GRENADE RANGE	None known	None known		
SENECA DEPOT ACTIVITY	NY213820830	SAMPSON RIFLE RANGE	None known	None known		

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Stewardship Table

Natural and Cultural Resources:

INSTALLATION	FFID	RANGE NAME	SPECIAL STATUS SPECIES	CULTURAL RESOURCES
SENECA DEPOT ACTIVITY	NY213820830	SAMPSON RIFLE RANGE XD I	None known	None known
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