



FINAL

# Operational Range Assessment Program Phase I Qualitative Assessment Report Casa Grande Training Site, Arizona

U.S. Army Operational Range Assessment Program  
Qualitative Operational Range Assessments

Prepared for:

U.S. Army Environmental Command and

U.S. Army Corps of Engineers Baltimore District



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## ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
AZARNG	Arizona Army National Guard
bgs	Below Ground Surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	Conceptual Site Model
DoD	Department of Defense
DODI	Department of Defense Instruction
E	Ecological receptors identified. This is referring to range grouping, pathway designation always precedes E designation.
GW	Groundwater pathway identified. This is referring to range grouping, M designation always precedes GW designation.
H	Human receptors identified. This is referring to range grouping, pathway designation always precedes H designation.
LS	Limited Source
M	Munitions used. This is referring to range grouping, M designation always precedes applicable pathway.
MCOC	Munitions Constituents of Concern
MGW	Munitions used. Groundwater pathway identified.
MGW (H/E)	Munitions used. Groundwater pathway identified (human and ecological receptors).
MMRP	Military Munitions Response Program
MPU	Munitions used. Pathway unlikely.
MSW	Munitions used. Surface water pathway identified.
MSW (H/E)	Munitions used. Surface water pathway identified (human and ecological receptors).
MSWGW	Munitions used. Surface water and groundwater pathways identified.
MSWGW (H/E)	Munitions used. Surface water and groundwater pathways identified (human and ecological receptors).
NGB	National Guard Bureau
NRCS	Natural Resources Conservation Service
ORAP	Operational Range Assessment Program
PU	Munitions used. Pathway unlikely or incomplete. This is referring to range grouping, M designation always precedes PU designation.
SW	Surface water pathway identified. This is referring to range grouping, M designation always precedes SW designation.
U.S.	United States
USACE	United States Army Corps of Engineers
USACHPPM	United States Army Center for Health Promotion and Preventive Medicine
USAEC	United States Army Environmental Command
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
°F	Degrees Fahrenheit

## **EXECUTIVE SUMMARY**

The United States (U.S.) Army is conducting qualitative assessments at operational ranges to meet the requirements of Department of Defense policy and to support the U.S. Army Sustainable Range Program. The operational range qualitative assessment (hereinafter referred to as Phase I Assessment) is the first phase of the U.S. Army Operational Range Assessment Program (ORAP). This Phase I Assessment evaluates the operational range area at Casa Grande Training Site to assess whether further investigation is needed to determine if potential munitions constituents of concern (MCOC) are or could be migrating off-range at levels that may pose an unacceptable risk to human health or the environment. In conducting the Phase I Assessment, MCOC sources, potential off-range migration pathways, and potential off-range human and ecological receptors are evaluated as appropriate.

Casa Grande Training Site is composed of one operational range encompassing a total of 799.37 acres in Pinal County, Arizona. The training site is located approximately four miles southeast of the city of Casa Grande on the western slope of the Casa Grande Mountains. The primary mission of this training site is to provide a maneuver training area for the Arizona Army National Guard (AZARNG).

In 1933, the land that composes Casa Grande Training Site was set aside for use as an AZARNG target range. A historical records review reveals that the range was most likely used for small arms training until the mid 1950s. Since the mid 1950s Casa Grande Training Site has been used by the AZARNG for a variety of non-live-fire activities, including bivouac, land navigation, and driver training.

Based on the site visit and review of historical documents, a limited quantity of small caliber munitions have been utilized at Casa Grande Training Site. Based on the limited potential source, on-range MCOC are not likely to reach off-range areas.

The one operational range at Casa Grande Training Site is categorized as Unlikely.

### **Unlikely – Five-Year Review**

The one range at Casa Grande Training Site is categorized as Unlikely, totaling 799.37 acres. This range consists of one maneuver/training area. Ranges where, based upon a review of readily available information, there is sufficient evidence to show that there are no known releases or source-receptor interactions that could present an unacceptable risk to human health or the environment are categorized as Unlikely. Ranges categorized as Unlikely are required to be re-evaluated at least every five years. Re-evaluation may occur sooner if significant changes (e.g., change in range operations, site conditions, regulatory changes) occur that affect determinations made during this Phase I Assessment.

**Table ES-1** summarizes the Phase I Assessment findings.

**Table ES-1: Summary of Findings and Conclusions for Casa Grande Training Site**

Category	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human Receptors	Ecological Receptors	Conclusions and Rationale
Unlikely	One operational range; 799.37 acres	Historical Use – Limited small caliber munitions	Not Evaluated, limited source identified.			Re-evaluate during the five-year review. (Limited source identified)