



# FINAL

## Operational Range Assessment Program Phase I Qualitative Assessment Report Pu'u Kapele Local Training Area, Moloka'i, Hawai'i U.S. Army Operational Range Assessment Program Qualitative Operational Range Assessments

Prepared for:  
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Final Operational Range Assessment Program Phase I Qualitative Assessment Range Assessment Reports will be released beginning in March 2008 per the Direction of Army Headquarters. The cover page of this Report reflects the official finalization date. The date on subsequent pages/figures reflects the date upon which this document's conclusions are based.



## ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	Conceptual Site Model
DHHL	Department of Hawaiian Home Lands
DoD	Department of Defense
DODI	Department of Defense Instruction
E	Ecological receptors identified. (This refers to range grouping; pathway designation always precedes E designation.)
GW	Groundwater pathway identified. (This refers to range grouping; M designation always precedes GW designation.)
H	Human receptors identified. (This refers to range grouping; pathway designation always precedes H designation.)
HIARNG	Hawai'i Army National Guard
LS	Limited Source
LTA	Local Training Area
M	Munitions used. (This refers to range grouping; M designation always precedes applicable pathway.)
MCOG	Munitions Constituents of Concern
mm	Millimeter
NGB	National Guard Bureau
NRCS	Natural Resources Conservation Service
ORAP	Operational Range Assessment Program
PU	Pathway unlikely or incomplete. (This refers to range grouping; M designation always precedes PU designation.)
RFMSS	Range Facility Management Support System
SW	Surface water pathway identified. (This refers 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 Pu'u Kapele Local Training Area (LTA) 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.

Pu'u Kapele LTA is located on the northern coast of west-central Moloka'i in an area known as the Ho'olehua Plain. The northern border is along sea cliffs adjacent to the Pacific Ocean, and its southern and eastern borders are adjacent to the Ho'olehua Pala'au Homestead lands.

Pu'u Kapele LTA has one range (1,113.19 acres) designated as a maneuver/training area for light forces used by the Hawai'i Army National Guard (HIARNG) (Army Range Inventory Geodatabase [ARID-GEO], 2005). It is unknown when the use of Pu'u Kapele LTA began; however, the range has reportedly been used for scout and reconnaissance training, including the use of small caliber munitions. Targets for small caliber munitions were located along a natural berm on the cliffline. All live-fire activity at Pu'u Kapele LTA was concentrated in this area. The range has not been used for live-fire training since approximately 1999 and has not been used at all since approximately 2003 (Interview, 2006).

The one operational range at Pu'u Kapele LTA is categorized as Unlikely.

### **Unlikely – Five-Year Review**

The one range at Pu'u Kapele LTA is categorized as Unlikely, totaling 1,113.19 acres. The range consists of a 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 off-range 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 or 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 Pu'u Kapele LTA**

Category	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human Receptors	Ecological Receptors	Conclusions and Rationale
Unlikely	One range; 1,113.19 acres	Small caliber munitions	None due to the location of washes, lack of rainfall, evapotranspiration rates, and the fate and transport characteristics of metals	Not Evaluated (no pathways identified)		Re-evaluate during the five-year review. No pathways were identified. See Section 5.1.3.