





## FINAL

# Operational Range Assessment Program Phase I Qualitative Assessment Report Kawailoa Training Area, Hawai'i

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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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.



#### **EXECUTIVE SUMMARY**

#### **PURPOSE**

This qualitative assessment, hereafter referred to as Phase I Assessment, evaluates Kawailoa Training Area's operational range area 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. The Phase I Assessment results in the categorization of operational ranges as appropriate, as follows:

- **Referred Refer to Appropriate Cleanup Program:** Ranges with compelling evidence (e.g., sampling data) to indicate the presence of an off-range release that potentially poses an unacceptable risk to human health or the environment;
- Inconclusive Phase II Quantitative Assessment Required: Ranges where existing information either is insufficient to make a source-receptor interaction determination or indicates the potential for such interaction to be occurring; or
- Unlikely Five-Year Review<sup>1</sup>: 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 based on a review of the information available.

#### SUMMARY OF FINDINGS

The 20 operational ranges at Kawailoa Training Area have been placed into the following category:

• Unlikely – Limited amounts of non-live-fire munitions are used in the seven maneuver and training areas and no munitions are used in the 13 rotary wing runways on Kawailoa Training Area's 23,455 acres. Therefore, this group has no source of potential MCOC.

These findings are summarized in **Table ES-1**.

<sup>&</sup>lt;sup>1</sup> All operational ranges must be periodically re-evaluated to determine if there is a release or substantial threat of release of MCOC from an operational range to an off-range area. Range groups categorized as Unlikely are to be re-evaluated at least every five years. Re-evaluation may occur sooner if significant changes (e.g., changes in range operations, site conditions, and regulatory changes) occur that affect determinations made during the Phase I Assessment.

Table ES-1: Summary of Findings, Conclusions, and Recommendations for Kawailoa Training Area

Category	Group Identification	Total Number of Ranges and Acreage	Source(s)	Pathway(s)*	Human Receptors*	Ecological Receptors*	Recommendations (Future Steps)
Unlikely	Limited source	20 operational ranges; 23,455 acres	No source – no live-fire military munitions use within training areas and rotary wing runways	Not evaluated	Not evaluated	Not evaluated	Re-evaluate during the five-year review.
* Indicates the specific pathways of concern.							

ABBREVIATIONS/ACRONYMS

#### ARID-GEO Army Range Inventory Geodatabase ARNG Army National Guard **BSA Biologically Sensitive Areas** Center for Environmental Management of Military Lands **CEMML CERCLA** Comprehensive Environmental Response, Compensation, and Liability Act Conceptual Site Model **CSM** DNT Dinitrotoluene Department of Defense DoD DODD Department of Defense Directive DODI Department of Defense Instruction Department of Energy DoE **DPTMS** Directorate of Plans, Training, Mobilization and Security °F Degrees Fahrenheit ft Foot or Feet **GIS** Geographic Information System Gallons Per Minute gpm Human/Ecological H/E **HMX** Cyclotetramethylenetetranitramine ID(L) Infantry Division (Light) Inch(es) in. Kahuku Training Area **KTA** LS Limited or No Source Munition **MCOC Munitions Constituents of Concern** MGW **Munitions Groundwater** Millimeter mm **MPU** Migration Pathway Unlikely msl Mean Sea Level **MSW** Munitions Surface Water MSWGW Munitions/Surface Water and Groundwater **NRCS** Natural Resources Conservation Service **ORAP** Operational Range Assessment Program PETN Pentaerythritoltetranitrate RDX Cyclotrimethylenetrinitramine Range Facility Management Support System **RFMSS** Schofield Barracks Military Reservation **SBMR** TNT Trinitrotoluene U.S. **United States** United States Army Corps of Engineers **USACE** United States Army Center for Health Promotion and Preventive Medicine USACHPPM **USAEC** United States Army Environmental Command USARHAW United States Army Hawai'i U.S.C. United States Code **USDA** United States Department of Agriculture

United States Environmental Protection Agency

United States Fish and Wildlife Service
United States Geological Survey

USEPA USFWS

USGS

