



FINAL

Operational Range Assessment Program Phase I Qualitative Assessment Report Wheeler Army Airfield, 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, hereinafter referred to as Phase I Assessment, evaluates Wheeler Army Airfield's (WAAF) 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 Review¹:** 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 one operational range at WAAF that was included in the qualitative assessment has been placed into the following category:

- **Unlikely** – One range consisting of a rotary wing runway, totaling 568.02 acres.

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

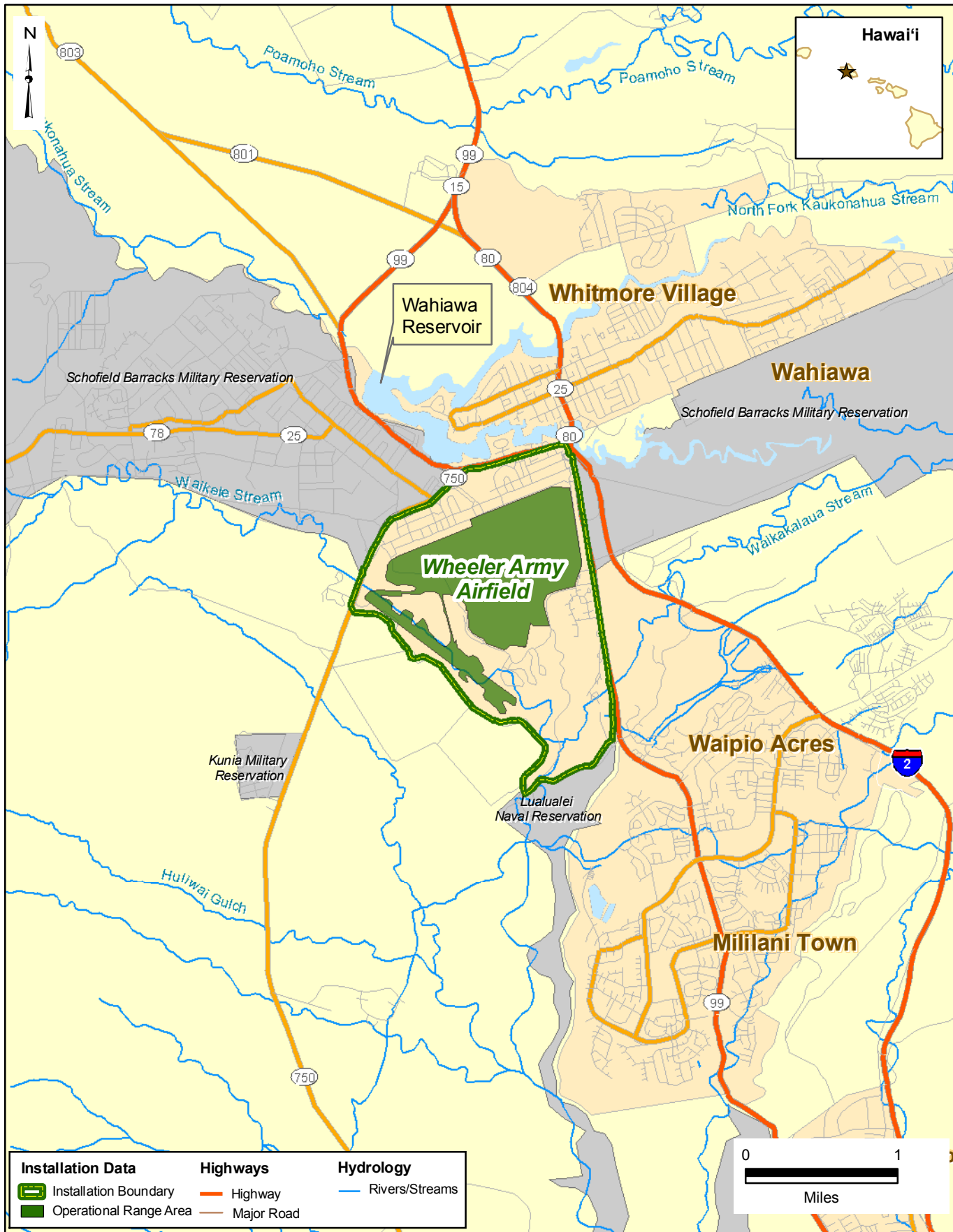
¹ All operational ranges must be periodically re-evaluated to determine if there is a release or substantial threat of release of MCOC from an operational range to an off-range area. Range groups categorized as Unlikely are to be re-evaluated at least every five years. Re-evaluation may occur sooner 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 Wheeler Army Airfield

Category	Group Identification	Total Number of Ranges and Acreage	Source(s)	Pathway(s)*	Human Receptors*	Ecological Receptors*	Recommendations (Future Steps)
Unlikely	Limited source	One operational range; 568.02 acres	No source – no military munitions use	No further evaluation required	No further evaluation required	No further evaluation required	Re-evaluate during the five-year review
* Indicates the specific pathways of concern.							

ABBREVIATIONS/ACRONYMS

AFB	Air Force Base
amsl	Above Mean Sea Level
ARID-GEO	Army Range Inventory Geodatabase
ARNG	Army National Guard
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	Conceptual Site Model
CTT	Closed, Transferred and Transferring
DNT	Dinitrotoluene
DoD	Department of Defense
DODD	Department of Defense Directive
DODI	Department of Defense Instruction
DoE	Department of Energy
DPTMS	Directorate of Plans, Training, Mobilization and Security
°F	Degrees Fahrenheit
ft	Foot or Feet
GIS	Geographic Information System
H/E	Human/Ecological
HLA	Harding Lawson Associates
HMX	Cyclotetramethylenetetranitramine
ID(L)	Infantry Division (Light)
in.	Inch(es)
ITAM	Integrated Training Area Management
LS	Limited or No Source Munitions
MC	Munitions Constituents
MCOC	Munitions Constituents of Concern
MGW	Munitions/Groundwater Pathway
mi ²	Square Miles
MPU	Migration Pathway Unlikely
MSW	Munitions/Surface Water Pathway
MSWGW	Munitions/Surface Water and Groundwater Pathway
ORAP	Operational Range Assessment Program
PETN	Pentaerythritoltetranitrate
RDX	Cyclotrimethylenetrinitramine
RFMSS	Range Facility Management Support System
SBMR	Schofield Barracks Military Reservation
SHI	Sam O. Hirota, Inc.
TNT	Trinitrotoluene
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 Center
USARHAW	United States Army, Hawai'i
U.S.C.	United States Code
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
WAAF	Wheeler Army Airfield



**Qualitative Operational Range Phase I Assessment
Wheeler Army Airfield, HI**

Figure 1-1
Installation Location



Data Sources:
ARID-GEO 24 Sept. 2001
ESRI StreetMap USA, 2005

Date: October, 2006
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