



FINAL

Operational Range Assessment Program Phase I Qualitative Assessment Report Van Vleck Ranch, California

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



Printed on
recycled
paper



May 2008

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

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. This Phase I Assessment evaluates the operational range area at Van Vleck Ranch 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.

Van Vleck Ranch occupies approximately 2,733 acres and is located in Sacramento County, California in the city of Rancho Murieta. The installation lies approximately 20 miles southeast of the city of Sacramento, 15 miles south of the town of Fulton, and 12 miles northeast of the town of Wilton. Van Vleck Ranch contains five operational ranges consisting of 2,685.03 acres. The remaining 48 acres are for non-operational use. The ranch consists of one runway and four maneuver and training areas. Van Vleck Ranch's primary mission is to serve as a maneuver and training area for rotary-wing aircraft located at the Joint Forces Headquarters (JFHQ), California in Rancho Cordova, California.

A review of available records and background data, as well as an interview with installation personnel, indicate that Van Vleck Ranch has never been used for training involving military munitions (live-fire or non-live-fire). Training currently conducted at Van Vleck Ranch is limited to rotary-wing aircraft maneuvers and practice landings. Because training activities do not involve, and historically have not involved, the use of military munitions, there are no potential sources of MCOC. Therefore, potential off-range migration pathways and potential off-range human and ecological receptors were not evaluated, and Van Vleck Ranch is categorized as Unlikely.

Installations with operational ranges where no munitions, either live-fire or non-live-fire, have been utilized are categorized as Unlikely. That is, based on a review of available information, there is sufficient evidence to show that due to the lack of munitions use there are no known releases or source-receptor interactions that could present an unacceptable risk to human health or the environment. 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 Van Vleck Ranch

Category	Total Number of Ranges and Acreage	Source(s)	Pathways(s)	Human and Ecological Receptors	Conclusions
Unlikely	5 operational ranges; 2,685.03 acres	No source – no current or historical use of live-fire or non-live-fire military munitions	Not evaluated (no source identified)		Re-evaluate during the five-year review.

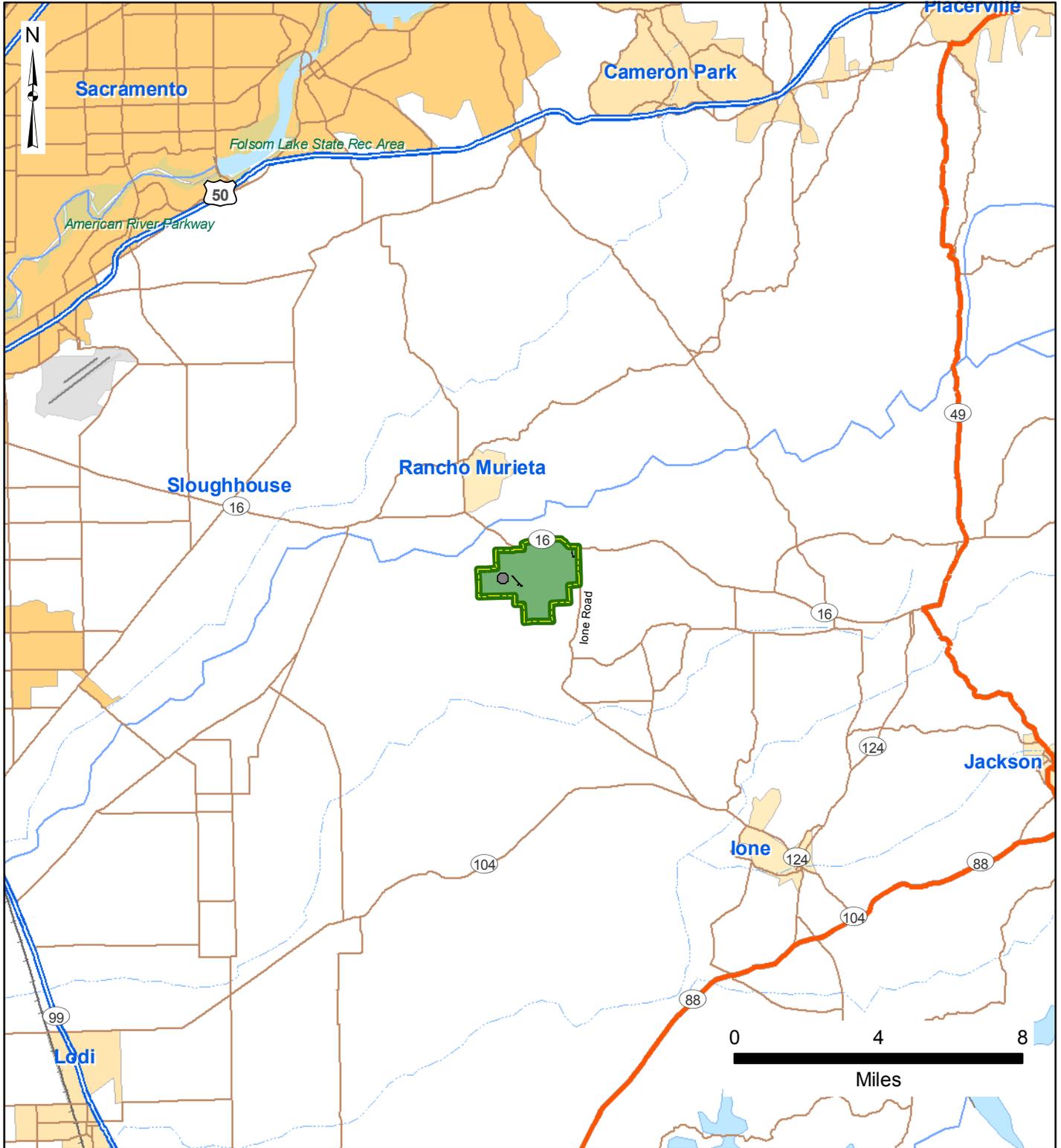
ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
CSM	Conceptual Site Model
CAARNG	California Army National Guard
DoD	Department of Defense
GIS	Geographic Information System
JFHQ	Joint Forces Headquarters
MCOG	Munitions Constituents of Concern
ORAP	Operational Range Assessment Program
U.S.	United States
USACE	United States Army Corps of Engineers



Operational Range Assessment Program Phase I Qualitative Assessment Van Vleck Ranch, CA

Figure 2-1
General Van Vleck Ranch Location



Legend

-  Installation Boundary
-  Operational
-  Non-Operational

Data Sources:
ARID-GEO 2006

Date:.....June 2007
Prepared By: EA Engineering, Science & Technology
Prepared For:..... U.S. Army
Contract Number:..... W912DR-05-D-0008