



FINAL

Operational Range Assessment Program Phase I Qualitative Assessment Report Fort Mifflin, Pennsylvania

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



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.

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March 2008



EXECUTIVE SUMMARY

The United States (U.S.) Army is conducting qualitative assessments at operational ranges to meet the requirements of the 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 Fort Mifflin 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.

Fort Mifflin is comprised of 27 acres of land located southwest of downtown Philadelphia, Pennsylvania and one mile east of the Philadelphia International Airport. Based on available 2006 Army Range Inventory Database-Geodatabase data, Fort Mifflin consists of a single 27-acre operational range that has been used by the Pennsylvania Army National Guard 103rd Engineer Battalion since 1960 as an equipment storage and vehicle maintenance facility. No non-live-fire or live-fire munitions training has ever occurred at the range. The site was originally part of a 489-acre parcel formerly owned and operated as a U.S. Navy Ammunition Depot for storage and transshipment of ordnance during the World Wars I and II.

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 Fort Mifflin

Category	Total Number of Ranges and Acreage	Source(s)	Pathways(s)	Human and Ecological Receptors	Conclusions
Unlikely	1 operational range; 27 acres	No source – no current or historical use of military munitions	Not evaluated (no MCOC source was identified)		Re-evaluate during the five-year review.

ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
CSM	Conceptual Site Model
DoD	Department of Defense
MCOC	Munitions Constituents of Concern
OEW	Ordnance and Explosive Waste
ORAP	Operational Range Assessment Program
PAARNG	Pennsylvania Army National Guard
U.S.	United States
USACE	United States Army Corps of Engineers
UXO	Unexploded Ordnance



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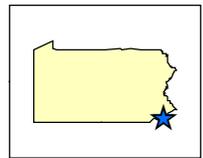
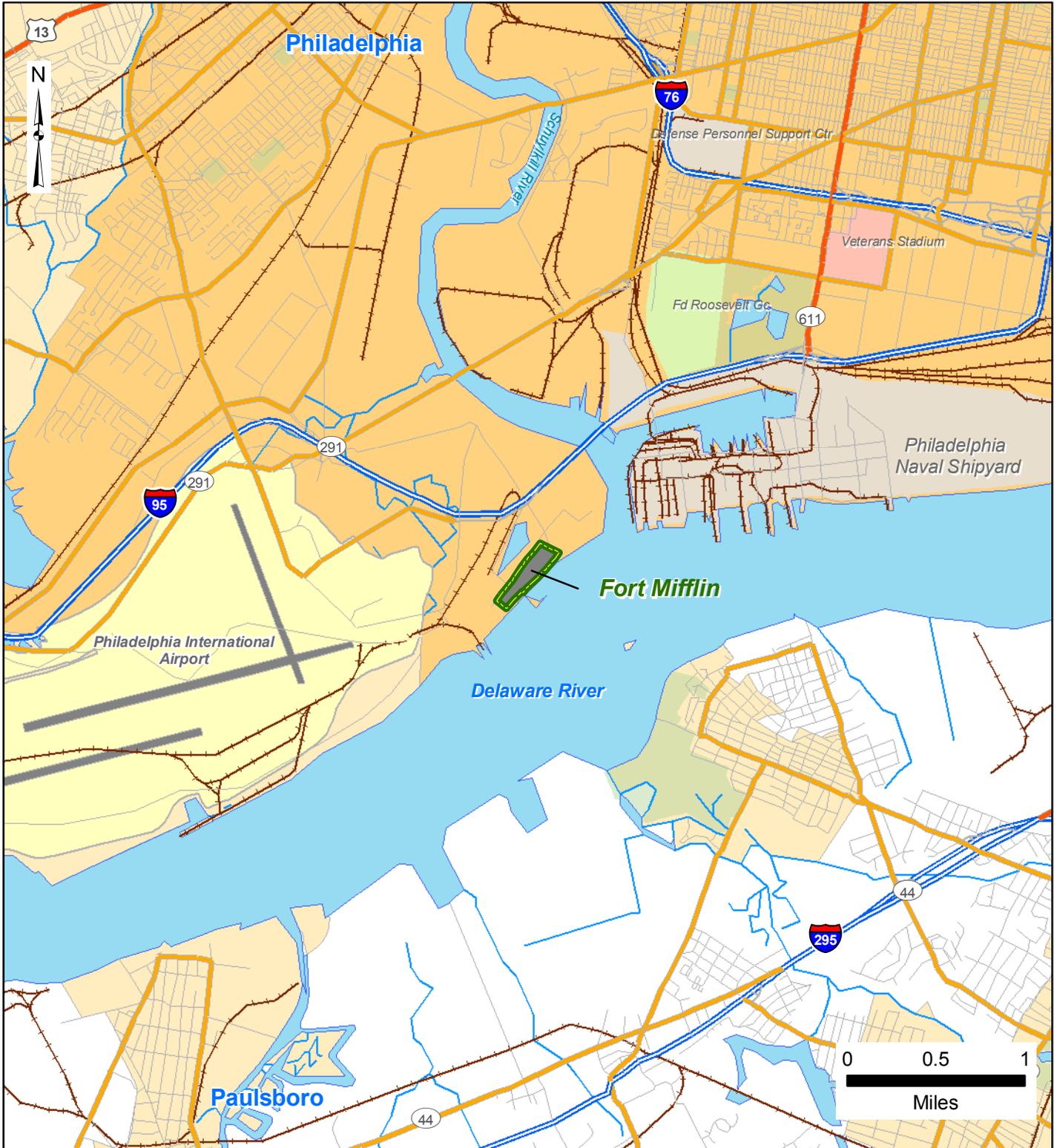


Figure 2-1
General Fort Mifflin Location and Operational Range Area



Legend

-  Installation Boundary
-  Surface Water

Data Sources:
ARID-GEO 2005, ESRI 2005

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