

FINAL

**SAMPLING AND ANALYSIS PLAN
ADDENDUM NO. 1**

FOR THE

**PHASE I REMEDIAL INVESTIGATION OF
THE ERIE BURNING GROUNDS AT THE
RAVENNA ARMY AMMUNITION PLANT,
RAVENNA, OHIO**

Prepared for



**US Army Corps
of Engineers**

**Louisville District
Contract No. DACA-62-94-D-0029
Delivery Order No. 0072**

July 1999



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Prepared by

**Science Applications International Corporation
800 Oak Ridge Turnpike, P.O. Box 2502
Oak Ridge, Tennessee 37831**

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

contributed to the preparation of this document and should not
be considered an eligible contractor for its review.

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DRAFT PHASE I RI WORK PLAN ADDENDA FOR THE ERIE BURNING GROUNDS, RAVENNA ARMY AMMUNITION PLANT, COMMENT RESOLUTIONS, JUNE 1999

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ABBREVIATIONS

AOC	area of concern
ARAR	applicable or relevant and appropriate requirement
AWQC	ambient water quality criteria
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPC	contaminant of potential concern
DQO	Data Quality Objective
EBG	Erie Burning Grounds
EPA	U.S. Environmental Protection Agency
FID	flame-ionization detector
IDW	investigation-derived waste
IEUBK	Integrated Exposure Uptake Biokinetic (Model)
IOC	Industrial Operations Command
MRD	Missouri River Division
NGVD	National Geodetic Vertical Datum
Ohio EPA	Ohio Environmental Protection Agency
OHARNG	Ohio Army National Guard
OE	ordnance and explosives
OVA	organic vapor analyzer
PAH	polynuclear aromatic hydrocarbon
PID	photoionization detector
PRG	preliminary remediation goal
QAPP	Quality Assurance Project Plan
QA/QC	quality assurance/quality control
RCP	reinforced concrete pipe
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RI	Remedial Investigation
RRSE	Relative Risk Site Evaluation
RVAAP	Ravenna Army Ammunition Plant
SAP	Sampling and Analysis Plan
SRC	site-related contaminant
SVOC	semivolatile organic compound
TAL	Target Analyte List
TCLP	toxicity characteristic leaching procedure
TNT	2,4,6-trinitrotoluene
UCL ₉₅	upper 95% confidence limit
USACE	U.S. Army Corps of Engineers
USCS	Unified Soil Classification System
VOC	volatile organic compound

