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BRACO – Base Realignment and Closure Office				
NGB – National Guard Bureau				
OHARNG – Ohio Army National Guard				
Ohio EPA – Ohio Environmental Protection Agency				
RVAAP – Ravenna Army Ammunition Plant				
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CONTRACTOR'S STATEMENT OF INDEPENDENT TECHNICAL REVIEW

3 Shaw Environmental & Infrastructure, Inc. has completed the Draft Public Involvement Plan 4 Addendum for Military Munitions Response Program Remedial Investigation Environmental 5 Services for the Ravenna Army Ammunition Plant, Ravenna, Ohio. Notice is hereby given that 6 an independent technical review has been conducted that is appropriate to the level of risk and 7 complexity inherent in the project. During the independent technical review, compliance with 8 established policy, principles, and procedures, utilizing justified and valid assumptions, was 9 verified. This included review of technical assumptions; methods, procedures, and materials to 10 be used; and whether the product meets customer's needs consistent with law and existing Corps 11 policy.

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1 2

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Prepared/Approved by:

Date: July 19, 2010

Gregory McGraw Public Affairs Specialist

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1 Acronyms and Abbreviations

2	AEDB-R	Army Environmental Database-Restoration
3	AOC	Area of Concern
4	ASR	Archive Search Report
5	AR	Administrative Record
6	BIP	blown-in-place
7	BRAC	Base Realignment and Closure
8	Camp Ravenna	Camp Ravenna Joint Military Training Center
9	CERCLA	Comprehensive Environmental Response, Compensation, and
10		Liability Act
11	CRP	Community Relations Plan
12	CTT	closed, transferring or transferred
13	DERP	Defense Environmental Restoration Program
14	DMM	discarded military munitions
15	DoD	Department of Defense
16	e ² M	engineering-environmental Management, Inc.
17	EPA	Environmental Protection Agency
18	FS	Feasibility Study
19	FUDS	Formerly Used Defense Sites
20	HE	high-explosive
21	HRR	Historical Records Review
22	IR	Information Repository
23	IRP	Installation Response Program
24	lb	pound
25	LTM	Long-Term Management
26	MAMMS	Multiple Award Military Munitions Services
27	MC	munitions constituents
28	MD	munitions debris
29	MEC	munitions and explosives of concern
30	MMRP	Military Munitions Response Program
31	MRS	Munitions Response Site
32	NCP	National Oil and Hazardous Substances Contingency Plan
33	NFA	No Further Action
34	NGB	National Guard Bureau
35	OB/OD	open burning/open detonation
36	ODA	Open Demolition Area
37	OHARNG	Ohio Army National Guard
38	Ohio EPA	Ohio Environmental Protection Agency
39	ORC	Ohio Revised Code
40	O&M	Operation and Maintenance
41	PA	Preliminary Assessment
42	PIKA	PIKA International, Inc.
43	PIP	Public Involvement Plan

2	RA	Remedial Action
3	RA(O)	Remedial Action (Operations)
4	RAB	Restoration Advisory Board
5	RC	Response Complete
6	RDX	cyclotrimethyltrinitramine a.k.a. royal demolition explosive
7	RI	Remedial Investigation
8	RIP	remedy-in-place
9	ROD	Record of Decision
10	RVAAP	Ravenna Army Ammunition Plant
11	SARA	Superfund Amendments and Reauthorization Act
12	Shaw	Shaw Environmental & Infrastructure, Inc.
13	SI	Site Inspection
14	TAPP	Technical Assistance for Public Participation
15	TCRA	Time-Critical Removal Action
16	TNT	Trinitrotoluene
17	TOW	tube-launched, optically-tracked, wire-guided
18	USACE	U.S. Army Corps of Engineers
19	UXO	Unexploded Ordnance
20		
21		
22		

1 1.0 Overview of the Public Involvement Plan

2 **1.1** Overview of the Public Involvement Plan

3 Shaw Environmental & Infrastructure, Inc. (Shaw) is submitting this Draft Public Involvement 4 Addendum for Military Munitions Response Program Remedial Investigation Plan 5 Environmental Services (PIP Addendum) to the U.S. Army in accordance with the Performance 6 Work Statement (PWS) section included in Multiple Award Military Munitions Services 7 (MAMMS) Contract No. W912DR-09-D-0005, Task Order 0002 for performance based, firm 8 fixed-price remedial investigation (RI) and munitions response services at 14 Military Munitions 9 Response Program (MMRP) sites at the Ravenna Army Ammunition Plant (RVAAP), Ravenna, 10 Ohio. The Delivery Order was issued by the United States Army Corps of Engineers (USACE), North Atlantic Division, Baltimore District on May 27, 2009. 11

12 The purpose of this PIP Addendum is to promote communication between RVAAP and the

13 community surrounding the Installation during environmental services to be performed under the

14 MMRP. This *PIP Addendum* has been developed as an addendum to the 2003 *Ravenna Army*

15 Ammunition Plant, Ravenna Ohio, Community Relations Plan (CRP) prepared by the USACE,

16 Louisville District. The USACE began using the term "Public Involvement" in 2004 to denote

17 the Army's approach to working with communities. This plan identifies issues of community

18 concern about the RVAAP and serves as a guide for public involvement goals and objectives.

19 Federal agencies develop public involvement programs to be consistent with the Comprehensive 20 Environmental Response, Compensation and Liability Act of 1980 (CERCLA) Section 21 113(k)(2), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) 22 and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). It is the 23 policy of the Department of Defense (DoD) to involve the local community in the environmental 24 restoration process. These requirements are the basis for more comprehensive and effective 25 community relations activities. By identifying the public's concerns, the RVAAP is able to 26 fashion a response that more effectively addresses the community's needs.

This plan addresses how the public will be informed and involved in the RI and munitionsresponse services activities for the RVAAP under the MMRP. Included in this plan will be:

- Public involvement goals and objectives
- Site location, description, ownership and history
- Community background and profile
- Proposed public involvement program

Draft

1 This information is based on research conducted in the community, the past record of RVAAP 2 activity, and interviews conducted with key stakeholders during preparation of the 2003 *CRP*. 3 The RVAAP will be forthright, responsive, clear, and proactive in their communications 4 involving the stakeholders. This includes members of the general public, elected officials, 5 interest groups, and the media who express an interest in this site.

6 **1.2** *Public Involvement Goals and Objectives*

7 It is the goal of the RVAAP is to be honest, forthright, responsive, and clear in dealing with the 8 public, elected officials, interest groups, and the media. It is important to nurture public 9 participation in site activities for the RVAAP and Camp Ravenna Joint Military Training Center; 10 increase public awareness of the program and its activities; decrease misunderstanding about 11 environmental problems and potential dangers; and foster community trust in the RVAAP's 12 ability to perform this mission in the most effective and efficient manner.

13 It is the RVAAP's objective to establish an information flow with these stakeholders and involve 14 them in suitable public involvement activities; increase public awareness of the program and its 15 activities; lessen any misunderstanding about environmental problems and potential hazards; and 16 help to create a two-way communication with the stakeholders and the community at large to 17 demonstrate the ability of the RVAAP to perform its mission in an effective and efficient 18 manner. The objectives of the RVAAP's public involvement efforts are as follows:

- Facilitate two-way communications between the community and the RVAAP's project delivery team
 - Inform the community of the environmental progress at the former RVAAP and involve the community in the process, so they may provide knowledgeable comments
- Develop and maintain relationships with media to report accurate, thorough information about the former RVAAP and the MMRP process

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1 2.0 Property Description

2 2.1 RVAAP Site Location, Description, and History

3 The RVAAP (Federal Facility Identification number: OH213820736) is located in northeastern 4 Ohio within Portage and Trumbull Counties, approximately 4.8 kilometers (3 miles) east-5 northeast of the city of Ravenna (Figure 2-1). All MMRP sites are located solely within Portage 6 County. The installation is approximately 17.7 kilometers (11 miles) long and 5.6 kilometers (3.5 7 miles) wide. It is bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX 8 System Railroad on the south; Garret, McCormick, and Berry roads on the west; the Norfolk 9 Southern Railroad on the north; and State Route 534 on the east. The installation is surrounded 10 by several communities: Windham on the north, Garrettsville 9.6 kilometers (6 miles) to the 11 northwest, Newton Falls 1.6 kilometers (1 mile) to the southeast, Charlestown to the southwest, 12 and Wayland 4.8 kilometers (3 miles) to the south.

13 Constructed in 1940, production at RVAAP began in December 1941, with the primary missions 14 of depot storage and ammunition loading. The Installation was divided into two separate units: 15 the Portage Ordnance Depot and the Ravenna Ordnance Plant. The depot's primary mission was 16 storage of munitions and components, while the mission of the ordnance plant was loading and 17 packing major-caliber artillery ammunition and the assembly of munitions-initiating components 18 that included fuzes, boosters, and percussion elements. In August 1943, the Installation was 19 redesignated the Ravenna Ordnance Center and again, in November 1945, as the Ravenna 20 Arsenal. The plant was placed in standby status in 1950 and reactivated during the Korean 21 Conflict to load and pack major caliber shells and components. All production ended in August 22 1957, and in October 1957 the installation again was placed in a standby condition. In October 23 1960 the ammonium nitrate line was renovated for demilitarization operations, which involved 24 melting explosives out of bomb casings for subsequent recycling. These operations began in 25 January 1961. In July 1961, the plant was deactivated again. In November 1961, the installation 26 was divided into the Ravenna Ordnance Plant and an industrial section, with the entire 27 Installation designated as the RVAAP.

In May 1968, RVAAP began loading, assembling, and packing munitions on three load lines and
 two component lines to support the Southeast Asia conflict. These facilities were deactivated in
 August 1972. The destruction of M71A1 90-millimeter (mm) projectiles extended from June

31 1973 until March 1974. Destruction of various munitions was conducted from October 1982

- 32 through 1992.
- 33

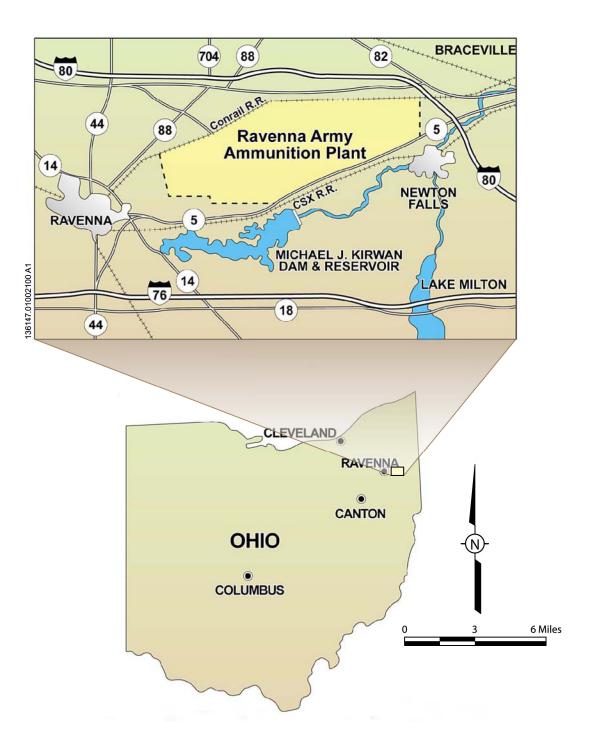


Figure 2-1 Location Map Ravenna Army Ammunition Plant Ravenna, Ohio

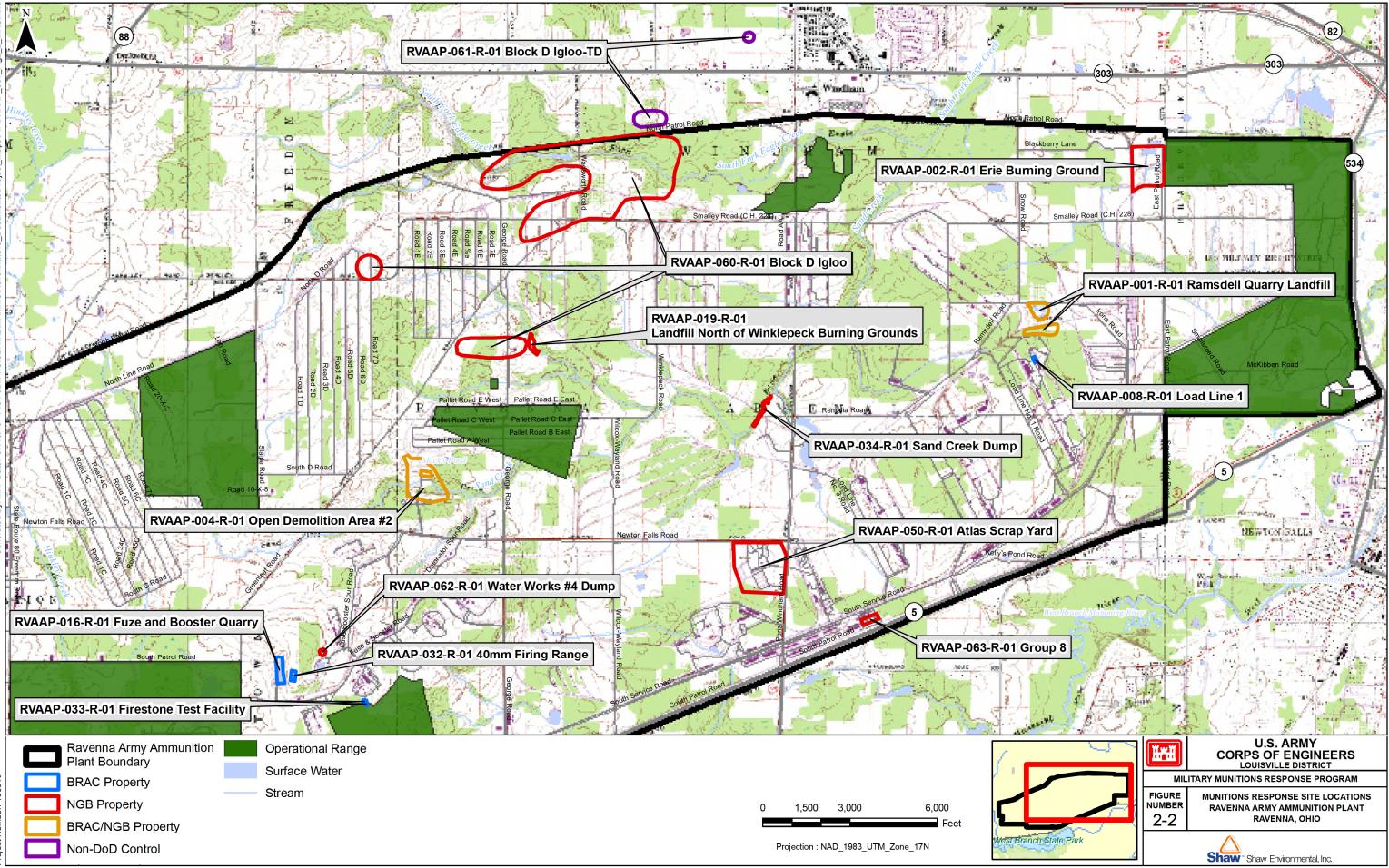
- 1 Until 1993, RVAAP maintained the capability to load, assemble, and pack military ammunition.
- 2 As part of the RVAAP mission, the Army maintained inactive facilities in a standby status
- 3 bykeeping equipment in a condition to allow resuming production within prescribed limitations.
- 4 In September 1993, the Army placed RVAAP in inactive caretaker status, which subsequently
- 5 changed to modified caretaker status. The load lines and associated real estate were determined
- 6 to be excess by the Army.

7 As of February 2006, a total of 20,403 acres of the former 21,683-acre RVAAP has been 8 transferred to the National Guard Bureau (NGB) and subsequently licensed to the Ohio Army 9 National Guard (OHARNG) for use as a military training site. Currently, RVAAP consists of 10 1,280 acres in several distinct parcels scattered throughout the confines of the Camp Ravenna. 11 These 1.280 acres consist of former industrial facilities that are being remediated and managed 12 by the Base Realignment and Closure (BRAC) Division that has; among other responsibilities, 13 the task of overseeing inactive status installations. MMRP work will be performed on both NGB 14 and BRAC parcels at RVAAP that consist of 14 active Munitions Response Sites (MRSs) 15 (Figure 2-2).

During the operational years, prior to Camp Ravenna, the entire 21,683 acre property was a government-owned, contractor-operated industrial facility. The RVAAP MMRP encompasses investigation and cleanup of past activities over the entire 21,683 acres of the former RVAAP; therefore, references to the RVAAP in this plan are considered to be inclusive of the historical extent of the RVAAP, which is inclusive of the combined acreages of the current Camp Ravenna and RVAAP, unless otherwise specifically stated.

- 22 It is important to note that RVAAP is bound to the Director's Final Findings and Orders issued 23 June 10, 2004 by the Ohio Environmental Protection Agency (Ohio EPA) pursuant to the 24 authority vested under Chapters 3734, 3745, and 6111 of the Ohio Revised Code (ORC). The 25 objective of the Orders is to ensure the public health, safety, welfare, and the environment, are 26 protected from the disposal, discharge, or release of potential contaminants. This includes 27 munitions and explosives of concern (MEC), which include unexploded ordnance (UXO); 28 discarded military munitions (DMM), or munitions constituents (MC) at explosive 29 concentrations; and MC at or from the installation. These types of munitions and constituents are 30 investigated and managed under guidelines of a CERCLA-based environmental remediation
- 31 program. The Ohio EPA is the lead regulatory agency at RVAAP.
- 32 The MMRP was established under the Defense Environmental Restoration Program (DERP) to
- 33 address MEC and MC located on current and former defense sites such as the RVAAP. The lead
- 34 Army agency for the MMRP at the RVAAP is the USACE, Louisville District. As a new
- 35 program, some elements of the MMRP are still under development at the Installation.
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Shaw Environmental & Infrastructure, Inc.

1 2.2 Past MMRP Activities at RVAAP

In 2006, engineering-environmental Management, Inc. (e^2M) conducted a Historical Records 2 3 Review (HRR) to document historical and other known information on MRSs identified at the 4 RVAAP to supplement U.S. Army inventory of closed, transferring, or transferred (CTT) 5 military training and defense sites (U.S. Army CTT Range/Site Inventory). The HRR included a 6 review of historical documents, maps, drawings, photographs, and investigation reports 7 comprising the Administrative Record (AR), interviews with installation personnel, and reviews 8 of the U.S. Army CTT Range/Site Inventory, Archive Search Report (ASR) and supporting 9 documentation. The HRR originally identified 19 MRSs; however, a determination was made 10 based on information collected during the HRR that two MRSs, Winklepeck Burning Grounds 11 and the Old Havfield, were not MMRP-eligible because they are currently considered active 12 ranges under OHARNG. These ranges are currently managed by the OHARNG and will be 13 closed by the OHARNG when the ranges are no longer needed. Therefore, a total of 17 MRSs were retained due to demolition and/or disposal activities that were conducted that resulted in the 14 15 potential presence of MEC and/or MC where releases occurred prior to September 2002.

In 2007, e²M conducted a site investigation (SI) at each the 17 MRSs under the MMRP. The 16 primary objectives of the SI was to collect the appropriate amount of information to support 17 18 recommendations of No Further Action (NFA), Immediate Response or Further Characterization 19 concerning the presence of MEC and/or MC at each of the MRSs. Recommendations for the 20 MRSs following the SI activities are presented in the Final Site Inspection Report, Ravenna Army Ammunition Plant prepared by e²M in May 2008. Out of the 17 MRSs originally identified 21 to require further evaluation in the SI, 14 were recommended for Further Characterization. These 22 23 14 active MMRP sites at the RVAAP have the following MRS designations: 24 • RVAAP-001-R-01, Ramsdell Quarry Landfill MRS 25 RVAAP-002-R-01, Erie Burning Grounds MRS 26 • RVAAP-004-R-01, Open Demolition Area #2 MRS

- RVAAP-008-R-01, Load Line #1 MRS
- RVAAP-016-R-01, Fuze and Booster Quarry MRS
- RVAAP-019-R-01, Landfill North of Winklepeck MRS
- 30 RVAAP-032-R-01, 40mm Firing Range MRS
- RVAAP-033-R-01, Firestone Test Facility MRS
- RVAAP-034-R-01, Sand Creek Disposal Road Landfill MRS
- RVAAP-050-R-01, Atlas Scrap Yard MRS
- RVAAP-060-R-01, Block D Igloo MRS
- 35 RVAAP-061-R-01, Block D Igloo–TD MRS

- Draft
- 1 2
- RVAAP-062-R-01, Water Works #4 Dump MRS
- RVAAP-063-R-01, Group 8 MRS

More information on the history of environmental activities at each of the MRSs as well as the aforementioned referenced e^2M *SI Report* can be obtained from documents located in the Information Repository (IR) identified in Appendix G and on the RVAAP web site at <u>www.rvaap.org</u>.

7 2.3 MRS Descriptions and History

8 Historical descriptions and summaries of previous investigations and activities for the each of the 9 14 active MRSs are presented in the following subsections.

10 2.3.1 Ramsdell Quarry Landfill MRS (RVAAP-001-R-01)

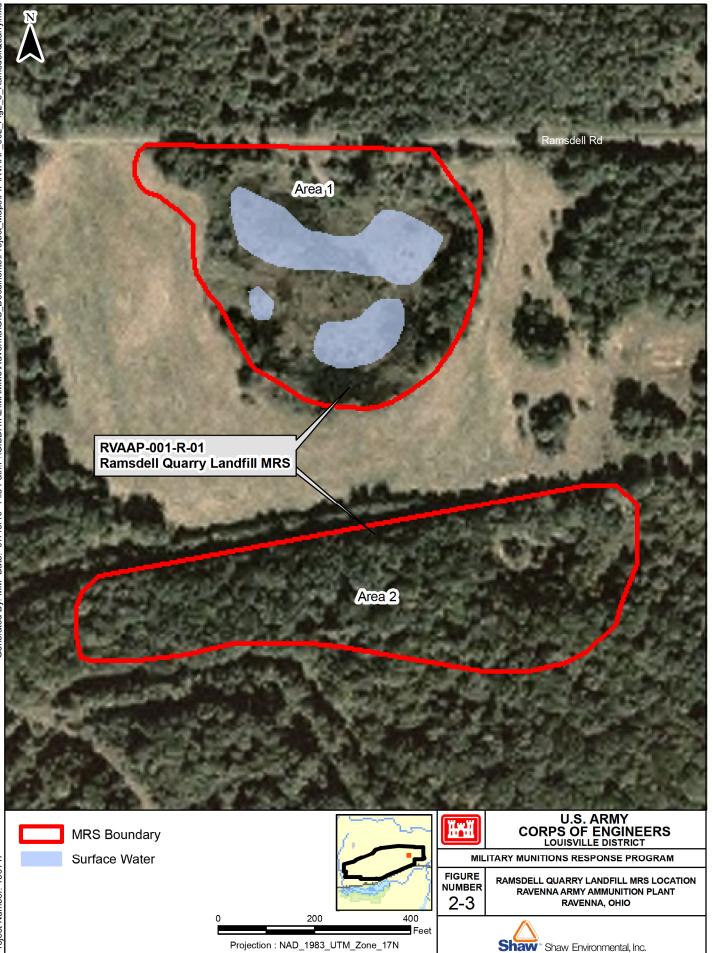
11 The Ramsdell Quarry Landfill is a 13.41-acre site originally operated as quarry mined for rock 12 material. Operations at the quarry ceased in 1941 and the quarry was used from 1946 to 1950 to 13 thermally treat waste explosives from Load Line #1, and approximately 18,000 500-pound (lb) 14 incendiary or napalm bombs through surface burning. From 1976 to its closure in 1990, the 15 quarry was operated as an Ohio state-permitted non-hazardous solid waste landfill. The MRS (Figure 2-3) encompasses the former open burning/open detonation (OB/OD) area (Area 1) and 16 the small borrow pit and wooded area (Area 2). Area 1 is co-located with an Installation 17 18 Restoration Program (IRP) area of concern (AOC) [Army Environmental Database-Restoration 19 (AEDB-R) #RVAAP-01] that was a former landfill; this area is not part of the MRS.

Subsurface anomalies have been detected at the Area 1, specifically around the pond; however, no evidence of MEC was observed at Area 2. One empty 105mm ceremonial shot cartridge and one empty 155mm shot round, both munitions debris (MD), were found at two locations in Area 2 during the SI field work. Lead and manganese have been identified as MC in surface soil in the southern soil borrow pit. The SI recommended further characterization at the MRS based on the presence of MEC in and around Area 1 and MC in Area 2.

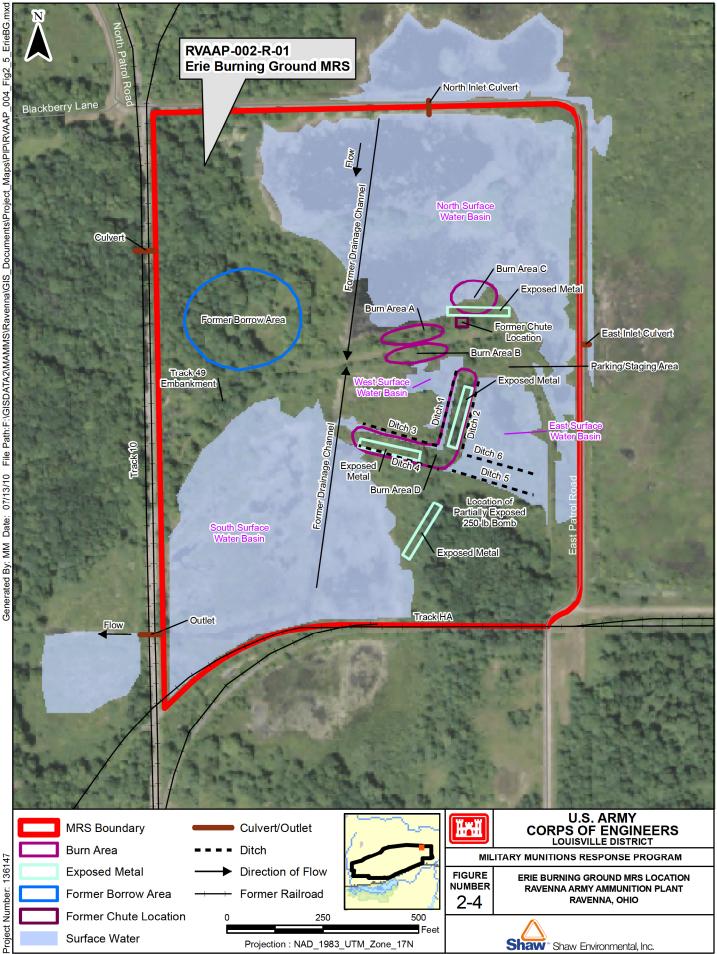
26 2.3.2 Erie Burning Grounds MRS (RVAAP-002-R-01)

This Erie Burning Grounds MRS is an undeveloped area covering approximately 35 acres in the northeastern corner of RVAAP (Figure 2-4). The MRS operated between 1941 and 1951 and was

- 29 used to thermally treat bulk, obsolete, off-spec propellants, conventional explosives, rags, and
- 30 large explosives contaminated items (e.g., railcars) through open burning on the ground surface.
- 31 The ash residue was left onsite after the burn. Prior to its acquisition by the Army in 1940, the
- 32 area may have been used for brick manufacturing. As of September 2007, high-quality wetlands
- 33 cover approximately 60 percent of the MRS.



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One possible MEC item identified as a 250-lb bomb has been found and several subsurface anomalies have been recorded. No samples were collected during the SI for MC. Chemical contamination in surface water, groundwater, soil, and dry sediment was addressed under the IRP; however, further characterization of wet sediments will be required under the MMRP.

5 2.3.3 Open Demolition Area #2 MRS (RVAAP-004-R-01)

6 The Open Demolition Area (ODA) #2 is a 35-acre area used from 1948 to 1991 to detonate large 7 caliber munitions and off-specification bulk explosives, and for burial of white phosphorus and 8 bombs of unknown types (Figure 2-5). The MRS consists of the former demolition area, the 9 40mm test range, Burial Sites 1 and 2, the Rocket Ridge Area, the Bomb Disposal Area located 10 adjacent to the northwestern section of the MRS; and all the areas in between.

11 At Rocket Ridge, MEC consisting of T-bar fuzes, white phosphorus grenades, and a potential

12 500-lb bomb were previously identified. A partially buried fuze was also found at Burial Site 2.

13 Two 40mm cartridges with intact primers were found on the hill directly across from Rocket 14 Ridge and MD was found throughout the MRS that consisted of 155mm projectiles, remnants of

40mm rounds, casing fragments from large caliber projectiles, and remnants of donor charge

16 bags.

17 In July 2009, PIKA International, Inc. (PIKA) conducted a Time-Critical Removal Action

18 (TCRA) to mitigate immediate explosive hazards and evaluate MEC and MD in the Rocket

19 Ridge area. As part of these activities, MKM determined that the three 500-lb bombs previously

20 identified at Rocket Ridge were not fuzed and were acceptable to move. PIKA also removed a

21 105mm projectile at Rocket Ridge using Blow-in-Place (BIP) techniques.

A RI is being conducted at ODA #2 under the MMRP to evaluate the nature and extent of MEC

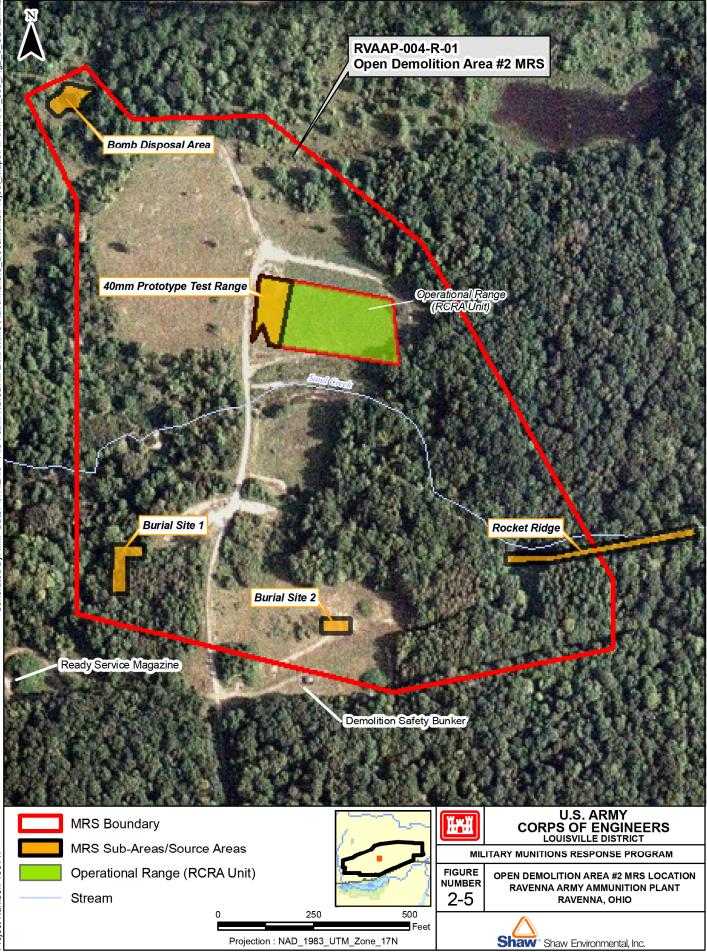
23 and MC contamination within the MRS including Rocket Ridge, the Bomb Disposal Area, Burial

24 Site #2, the hill across Sand Creek from Rocket Ridge and kick-out areas surrounding the ODA

25 #2 MRS boundary.

26 **2.3.4** Load Line #1 MRS (RVAAP-008-R-01)

27 Load Line #1 was used to melt and load trinitrotoluene (TNT) and Composition B explosives 28 into large-caliber shells during World War II and the Korean War. As a result of load operation, 29 explosive dust, spills, and vapors collected on the floors and walls of several buildings were 30 periodically washed from the walls and floors with water and steam. In 1971, the load line was 31 declared inactive when the buildings with residual explosive dusts were washed down, and the 32 freestanding equipment was removed. From 1996 through 1998, salvage operations continued 33 with the removal of the overhead steam lines and major rail spurs, and the removal of all 34 telephone lines. The majority of the buildings were demolished and removed by 2000. The 35 remainder of the floor slabs were demolished and removed in 2009.



1 The Load Line #1 MRS was originally a 4.63-acre area composed of several areas associated

- 2 with former buildings CB-13/CB-13B, the area near the former elevated building slab at CB-14
- 3 and areas where triple-base propellant have historically been found. The MRS has since been
- 4 reduced to a 0.41-acre area located adjacent to the northwest side of the former Building CB-14
- 5 declared inactive when buildings with residual explosive dust were washed down, and the 6 elevated building slab based on the results of the e^2M SI in 2007 (Figure 2-6). This MRS is
- collocated with the 450-acre area Load Line #1 IRP AOC (AEDB-R #RVAAP-08).

8 MEC consisting of triple-base propellant (1-inch by ¼-inch each) has been previously found on 9 the ground surface at the MRS. Lead was the only MC detected in surface soil; however, a low 10 concentration of TNT was also detected. Based on the UXO survey and MC results for lead and 11 low detects for explosives, the SI recommended further characterization to address MEC and MC 12 concerns at the Load Line #1 MRS.

13 2.3.5 Fuze and Booster Quarry MRS (RVAAP-016-R-01)

The Fuze and Booster Quarry MRS is an undeveloped 5-acre area that consists of three elongated ponds, situated end to end and separated by berms constructed within an abandoned rock quarry. The quarry was used for open burning of various types of munitions from 1945 to 1975 (Figure 2-7). The MRS is co-located with an IRP AOC at the Fuze and Booster Quarry (AEDB-R #RVAAP-16).

19 The HRR conducted by e²M for the MRS identified that munitions produced at RVAAP could 20 have been disposed at the site. These munitions include rockets, bombs, fuzes, detonators, flares, 21 missiles, grenades, landmines, medium- and large-caliber ammunition, explosives, mortars, 22 propellant, practice ordnance, pyrotechnics, and small arms.

23 No suspect MEC has been identified at the MRS; however, MD was found on the northeastern

side of the southern pond. Further, multiple closely spaced subsurface anomalies considered to

- 25 be suspect MD and possibly MEC have been detected alongside the southeastern and east sides
- of the southern pond, the east side of the central pond, and the eastern and northeastern sides of $\frac{27}{100}$
- the northern pond. The e^2M SI reported that RVAAP personnel have observed munitions items in the northern and southern ponds when water levels are low. The SI recommended further
- in the northern and southern ponds when water levels are low. The SI recommended further characterization to assess buried anomalies that may be potential MD or MEC located on the
- 30 southeastern, eastern, and northeastern banks of the three ponds, and the presence of MEC on the
- source of the northern and southern ponds, and the presence of MEC on t submerged portions of the northern and southern ponds.

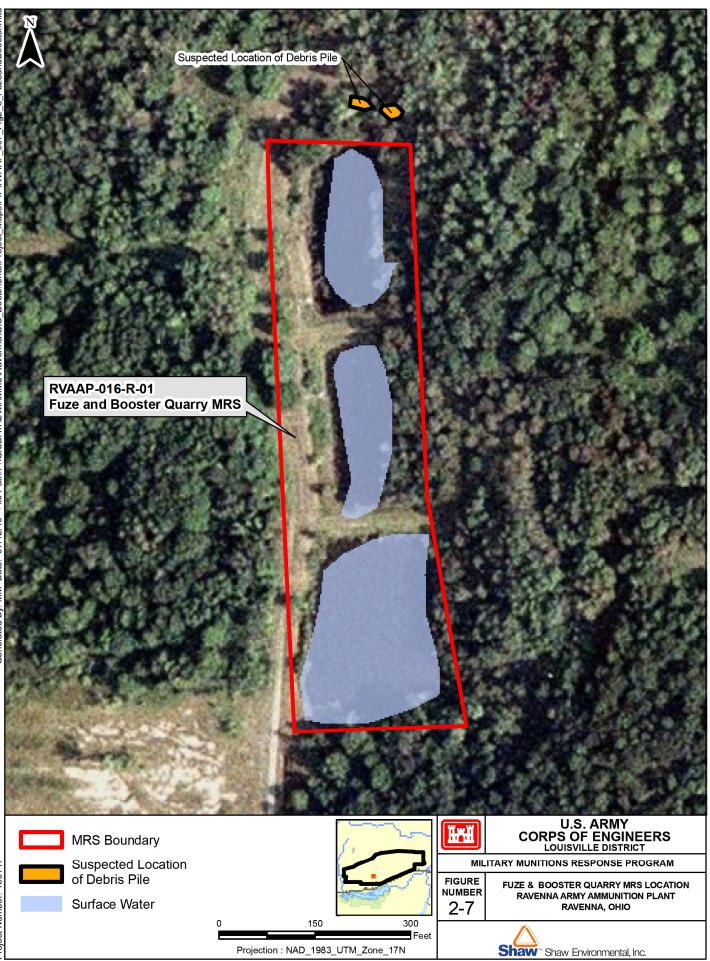
32 **2.3.6** Landfill North of Winklepeck MRS (RVAAP-019-R-01)

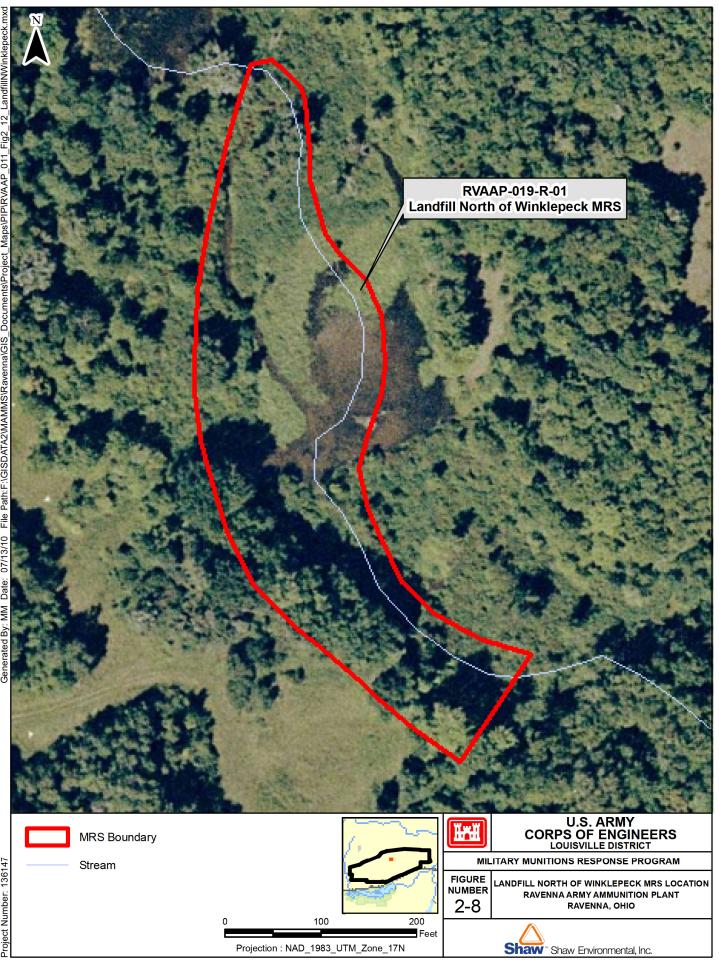
33 The Landfill North of Winklepeck MRS is a 2.3-acre area adjacent to the north of the inactive

- 34 landfill (Figure 2-8). The MRS is sloped, heavily wooded, and located adjacent to an unnamed
- 35 stream. The landfill itself is approximately 7.5-acres and unlined. It and accepted general plant

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1 refuse, explosive waste residue, and open burn waste, including flares and booster cups from

- 2 Winklepeck Burning Grounds. The landfill is excluded from the revised MRS footprint and will
- 3 continue to be assessed under the IRP.

4 No MEC has been identified at the MRS; however, MD consisting of empty flare canisters have 5 been discovered along the hillside adjacent to the former landfill; a partially buried fragment of an unidentified bomb casing was found adjacent to the creek in the southeastern portion of the 6 7 MRS; and one empty 105mm projectile (i.e., empty of energetic material) was found lying on the 8 ground surface on the southeastern wooded area. Multiple concentrated subsurface anomalies 9 were detected along the length of the hillside adjacent to the former landfill. Concentrations of 10 lead and iron were identified as MC in surface soil. The SI recommended that further 11 characterization be conducted under the MMRP to address MEC and MC concerns at the MRS.

12 2.3.7 40mm Firing Range MRS (RVAAP-032-R-01)

The 40mm Firing Range MRS is a former test range that was used from approximately 1969 to 14 1971 to test the 40mm cartridge. The MRS is undeveloped and encompasses an open field 15 approximately 1.3 acres in size surrounded by forest (Figure 2-9). A wooden structure located at 16 the firing point is believed to be the former storage shed. The impact area was located in the 17 western part of the MRS, just uphill from the ponds at the Fuze and Booster Quarry. The impact 18 area consisted of a single impact berm, which has been removed.

19 Rounds tested may have included both the M407A1 practice round and the M406 high-explosive 20 (HE) round. Practice rounds contain yellow marker dye, M9 propellant, and royal demolition 21 explosive (RDX) booster pellets. The M406 HE rounds contain Composition B and M9 propellant. The e²M SI Report states that RVAAP personnel reported that UXO is present 22 23 beyond the impact point, on the slope that leads down to the Fuze and Booster Quarry MRS. MD 24 consisting of aluminum 40mm nose caps and casings have been found at the impact area and 25 approximately 100 feet beyond the impact area (assumed to be overshoot). The majority of the 26 detections were remnants of 40mm rounds (casing and nose fragments) covered by leaves and 27 other forest detritus.

28 2.3.8 Firestone Test Facility MRS (RVAAP-033-R-01)

The Firestone Test Facility is situated in Load Line #6 and consisted of two buildings used as test chambers for the tube-launched, optically-tracked, wire-guided (TOW) and Dragon missiles, and a pond and test chamber used for the testing shape charges. Previous investigations at the MRS indicated limited impact from MEC-related activities in areas within the Firestone Test Facility with the exception of the small pond located at the southernmost boundary of the Firestone Test Facility (Figure 2-10).



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RVAAP-40mm F	032-R-01 iring Range MRS	
	Suspected Impact	Area
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MRS Boundary Suspected Firing Point Location		U.S. ARMY CORPS OF ENGINEERS LOUISVILLE DISTRICT MILITARY MUNITIONS RESPONSE PROGRAM
		FIGURE NUMBER40MM FIRING RANGE MRS LOCATION RAVENNA ARMY AMMUNITION PLANT2-9RAVENNA, OHIO
	0 150 300 Projection : NAD_1983_UTM_Zone_17N	Shaw Environmental, Inc.

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Although no visible evidence of MEC debris has been observed at the MRS, the presence of dense pockets of buried metallic and unidentified items have been detected during previous investigations. The pond was not surveyed for MEC-related material during the SI. No MC was dentified in the soil samples collected during the SI and soils around the test chamber will be addressed under the IRP. The MRS acreage has been reduced to 0.41 acres – approximately the

6 area around the shape charge test pond. The SI recommended further characterization at the

7 revised MRS to address MEC concerns.

8 2.3.9 Sand Creek Disposal Road Landfill MRS (RVAAP-034-R-01)

The Sand Creek Disposal Road Landfill MRS is co-located with an IRP AOC (AEDB-R 9 #RVAAP-34) consisting of 0.85-acres of undeveloped land that stretches approximately 1,000 10 feet along the banks of Sand Creek (Figure 2-11). A removal action (RA) was conducted at the 11 12 site under the IRP to remove surface debris and limited subsurface debris associated with former 13 use of the site as a construction dump. During confirmation sampling following the RA, two 14 75mm projectile shells (i.e. MD) were discovered at the northern portion of the site. Multiple 15 subsurface anomalies were recorded as part of the meandering path magnetometer and metal detector assisted UXO survey that was conducted for all open areas at the site for the e²M SI; 16 however, a definitive determination of the nature of the anomalies could not be made. Although 17 18 no MEC was identified at the site during the SI UXO survey, one empty 105mm projectile MD

19 was found in Sand Creek downstream of the former dump area.

Based on historical findings and field observations made, the potential for MEC at the MRS could not be ruled out and the SI recommended additional characterization work is required to address the MEC concerns. MC at this MRS will continue to be addressed under the IRP.

23 2.3.10 Atlas Scrap Yard MRS (RVAAP-050-R-01)

This Atlas Scrap Yard MRS encompasses 66 acres of mostly open land that contains a network of roads (Figure 2-12). The MRS was originally used as a construction camp and became a storage area/scrap yard for non-explosive scrap materials, MEC scrap, and wooden ammunition boxes. Reported disposal practice involved removing material from trucks and leaving it at the edge of the road. The HRR indicated that UXO consisting of 40mm fragmentation shells was reportedly uncovered at the southwest corner of the MRS and is buried in the central portion of the site. The site is currently used to store scattered piles of scrap metal debris and railroad ties.

No surface MEC or MD were found during the e^2M SI in the 12 acres surveyed at the southcentral, northern, and eastern portions of the MRS. During the SI, the presence of demolition debris limited access at the south-central portion of the site. A few scattered subsurface anomalies were detected within this area and multiple subsurface anomalies were detected around three piles of debris; however, interference from the metal scrap in the debris piles may have been significant. Very few subsurface anomalies were recorded at the east-central portion



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of the site. The disclosure of the 40mm fragmentation shell burial site was provided to e²M following the completion of the SI field activities and was not included in the SI survey. Based on the newly provided information regarding the buried 40mm shells and the detection of multiple surface anomalies, the SI recommended further characterization to address MEC concerns at this MRS.

6 2.3.11 Block D Igloo MRS (RVAAP-060-R-01)

7 The Block D Igloo MRS formerly included 622.24 acres, containing Igloo 7-D-15, which 8 accidentally exploded in 1943. The explosion was the result of the detonation of 2,516 clusters of 9 20-lb fragmentation bombs (M-41). The 60-foot long igloo was constructed of reinforced 10 concrete with a steel door. The side walls of the igloo were sheared off at the footings during the 11 explosion. The original MRS boundary was established by USACE, Huntsville District to 12 capture the probable debris field resulting from the explosion and was based on the type of 13 munitions stored in the bunker at the time of the explosion.

Meandering path magnetometer and metal detector assisted UXO surveys were conducted during the e²M SI around the former igloo and four documented debris locations. No MEC or MD was observed on the ground surface within the interior of the former igloo or within a circumference of 100 feet surrounding the area. Several subsurface anomalies were recorded within the former

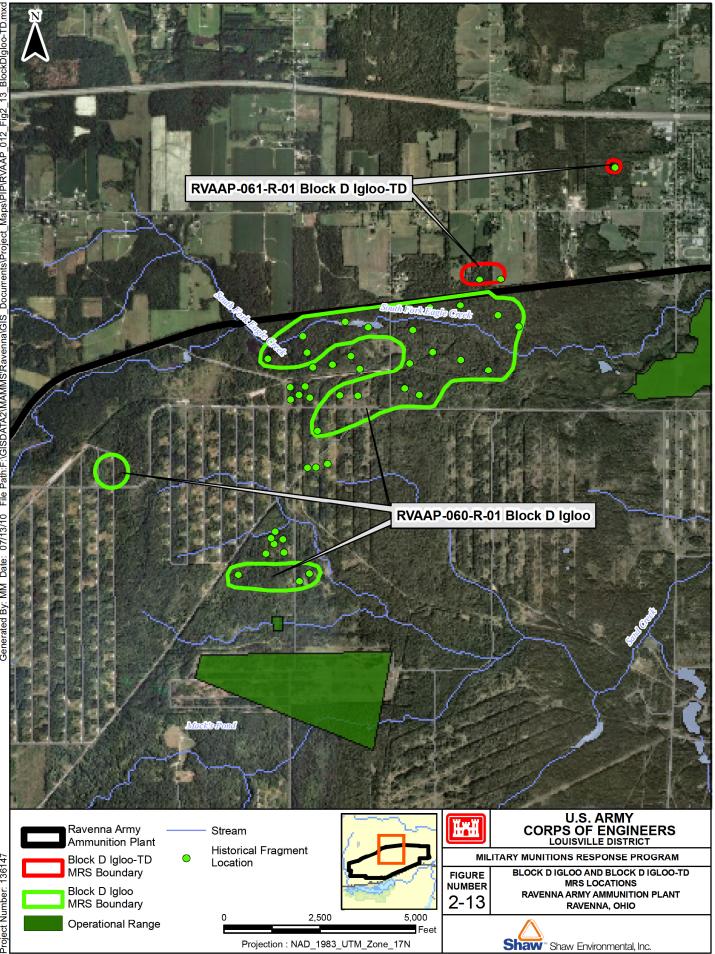
- 18 igloo footprint; however, those may be attributed to the remnants of the former reinforced
- 19 concrete floor.

No subsurface anomalies were detected within 100 feet surrounding the former igloo. At the four documented debris locations, no visual evidence of MEC or MD was found and very few subsurface anomalies were detected. At locations where subsurface anomalies were recorded, the findings were attributed to debris associated with the former rail lines and roadway. One multi increment surface soil sample was collected from the former igloo area during the SI and lead and arsenic were identified as MC concerns.

- The SI recommended further characterization at the MRS to address MEC and MC concerns at all remaining document debris locations (and areas in between) that were not investigated during the SI. The MRS footprint has been reduced from 622.24 acres to 340.2 acres to include all document debris locations that were not investigated during the SI or included in the U.S. Army
- 30 CTT Range/Site Inventory and HRR defined MRS boundary (Figure 2-13).

31 2.3.12 Block D Igloo – TD MRS (RVAAP-061-R-01)

- 32 Two new off-post areas (Area 1 and Area 2) have been identified where MD or MEC may be
- 33 present as a result of the accidental explosion of Igloo 7-D-15 in 1943 and will require additional
- 34 characterization work under the MMRP. Both areas are located to the northeast of Igloo 7-D-15



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1 and have not been previously investigated (Figure 2-13). The total area of the MRS encompasses

- 2 14.13 acres; Area 1 consists 12 acres of agricultural land and Area 2 is 2.13 acres of densely
- 3 wooded land. Based on aerial photographs, these areas do not appear to encompass surface water
- 4 or sediment media.

5 **2.3.13** Water Works #4 Dump MRS (RVAAP-062-R-01)

6 The Water Works #4 Dump MRS site originally encompassed approximately 6.15-acres of 7 mostly forested area that included a small clearing, located immediately west of the Water 8 Works #4 and Load Line #7 in the southwestern portion of the RVAAP. Large caliber casings 9 were reportedly found scattered throughout the wooded portion of the former MRS footprint 10 lying on the ground surface and partially buried, as were metal parts defined as ogives from 11 World War I-era 155mm shrapnel projectiles.

Subsequent SI activities (magnetometer survey, visual surface inspection, and limited surface soil sampling) did not indicate the presence of MEC burial areas or MC impact to environmental media; however, 20 inert ogives were found scattered through the northern wooded area of the MRS. Several closely spaced subsurface anomalies have also been detected in the open field

16 portion of the MRS.

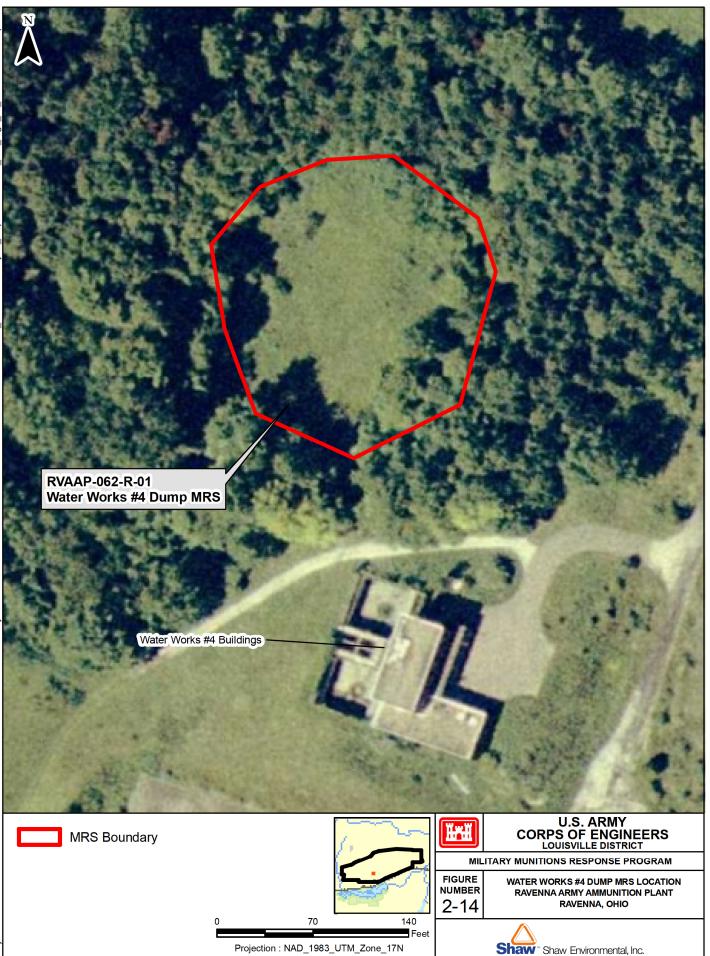
17 Based on SI results, the MRS footprint has been reduced from 6.15 acres to 0.77 acres (Figure 2-

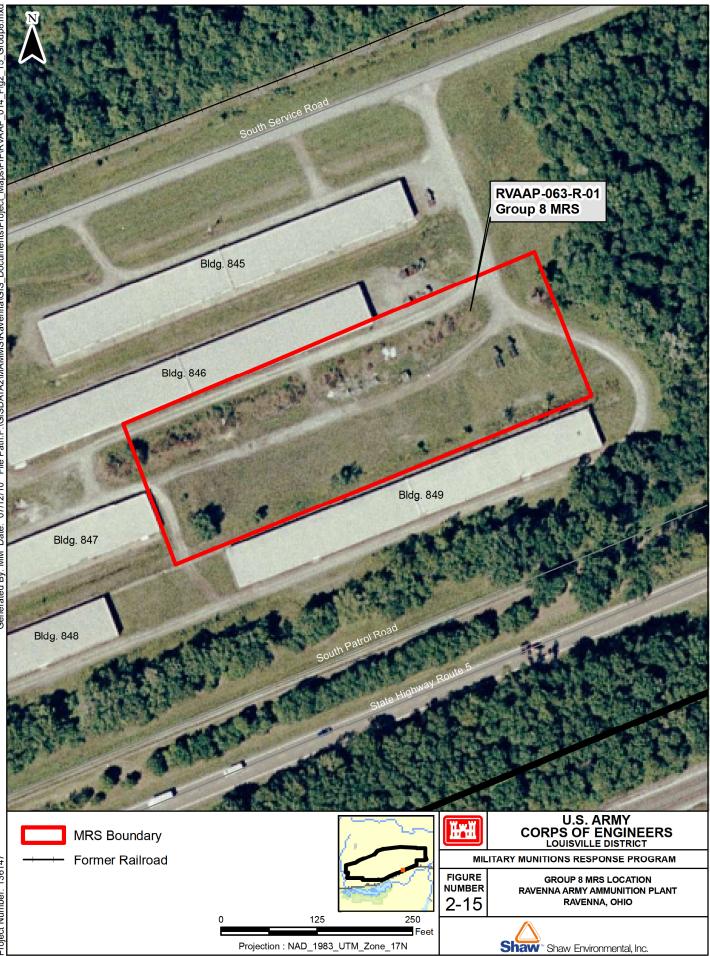
18 14). The SI recommended further characterization for MEC and MC concerns at this MRS that 19 consists of the open field portion of the MRS where the detections of buried anomalies were 20 encountered.

21 **2.3.14** Group 8 MRS (RVAAP-063-R-01)

The 2.65-acre Group 8 MRS consists of the area between Buildings 846 and 849 (Figure 2-15). This area consists of disturbed land that is currently being used as an OHARNG vehicle staging area, though it may have historically been used for burning construction debris and rubbish. In 1996, one anti-personnel fragmentation bomb loaded with HE was found at the MRS. In addition, one demilitarized (i.e., cut into two halves) 175mm projectile was found on the ground surface at the MRS.

- Potential MEC identified during subsequent SI activities at the MRS included two unidentifiable T-bar fuzes. No other MEC has been found; however, a large amount of MD was identified in three areas of the MRS. All three of these areas were littered with large amounts of debris including metal trash, fencing materials, and wood scrap. The remaining areas of the MRS were clear of visible debris and very few subsurface anomalies have been identified at these areas. MC consisting of lead, antimony, arsenic, aluminum, cadmium, copper, iron and manganese has been identified in surface soil at the MRS. The SI recommended further characterization at this MRS
- 35 to address MEC and MC concerns.





1 2.4 MMRP Activities and Performance Objectives

2 The overall objective of this task order is to complete site investigations and characterization of 3 MEC and MC under the MMRP. Shaw will perform all CERCLA phases of RI and characterize 4 nature and extent of MEC and MC contamination at the MRSs. For the applicable sites where 5 remedy-in-place (RIP) is required (Load Line #1 MRS, Firestone Test Facility MRS, Sand Creek 6 Dump MRS, and Water Works #4 MRS) Shaw will implement the necessary remedial strategies. 7 Shaw's proposed RI strategies have been developed to determine whether the MRSs warrant 8 further response action pursuant to CERCLA and the NCP. The RIs will accomplish the 9 following objectives:

- Determine the nature and extent and fate and transport of MEC.
 - Determine the nature and extent and fate and transport of MC.
- Determine the risk posed to human health and the environment by MEC and MC.
- Collect or develop additional data for the Feasibility Study (FS), as appropriate, to determine remediation alternatives for mitigation, including no action. The investigation will seek to determine portions of the MRSs where NFA is required by biasing data collection to areas where no evidence of MEC is observed.
- 17 General tasks for the MRSs under this task order include the following:
- 18 1. Coordinate Public Affairs and community relations support for the project.
- Prepare and submit *Project Management Plan, Project Work Plan, Site Specific Health and Safety Plan* and this *PIP Addendum*.
- Conduct magnetometer-assisted surface sweep as part of site preparation for geophysical transect work.
 - 4. Perform limited vegetation removal as necessary in coordination with OHARNG, RVAAP and Ohio EPA to facilitate field activities.
- 25
 5. Conduct a geophysical test strip survey to select the correct instruments for performing instrument-assisted density surveys at select sites.
- 27
 6. Implement instrument-assisted density surveys to determine the site boundaries and the extent of MEC contamination.
- Perform additional surveys outside of established MRS boundaries at select sites
 where potential kick-out from demolition or explosive activities may have occurred.
- 31 8. Perform reacquisition and investigation of target anomalies.
- 32 9. Destroy MEC/MMPEH encountered during the investigation.
- 10. Conduct sampling and analysis to evaluate MC in environmental media (surface soil/dry sediment, wet sediment, and surface water), as needed.

11

23

1 11. Develop a comprehensive *Remedial Investigation Report* for each MRS containing a description of all data collected.

For the MRSs requiring RIP (Load Line #1, Firestone Test Facility, Sand Creek Disposal Road
Landfill and Water Works #4 Dump), additional MMRP activities beyond the RI phase may

- 5 include the following.
- Prepare the required CERLCA documents (FS and Proposed Plan) and issue for public comment prior to preparation of the Record of Decision (ROD) and subsequent *Remedial Design/Remedial Action* reports, as necessary.
 Implement the recommended strategy at each RIP site, which may include a MEC or
- 9
 2. Implement the recommended strategy at each RIP site, which may include a MEC or
 10 MC remedial action and implementation of Land Use Controls.
- Prepare a comprehensive *Remedial Action Report* that will document the implemented remedy.
- 4. Perform Remedial Action (Operations) (RA(O)) for the duration of the task order or until achievement of Response Complete (RC), whichever comes first. Upon achievement of RC, perform any necessary Long-Term Management (LTM) for the duration of the task order.

As the selected contractor for the MMRP, Shaw will coordinate with the RVAAP, the OHARNG and the Ohio EPA during the implementation of this task order. MMRP field activities are scheduled to commence in the fall of 2010; however, the actual start dates will be contingent on

20 approval of the project work plans by all the project stakeholders.

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1 3.0 Community Background

2 3.1 Community Profile

3 In 1808, Portage County, Ohio was organized from Trumbull County, Today, the 492.4 square 4 miles that make up Portage County have a population of 152,061, according to the U.S. Census 5 Bureau in 2000. Portage County is located in northeast Ohio, a 45-minute drive south of 6 Cleveland, Ohio. The RVAAP opened in 1940, covering 21,419 acres of land surrounded by 7 Ravenna, Charlestown, Paris, Newton Falls, Freedom, Windham, and Braceville Townships. The 8 facility provided much needed jobs to Portage and Trumbull counties. It supplied immeasurable 9 munitions to the U.S. troops abroad during World War II. The community witnessed an 10 industrial boom that included companies such as the Enduro Rubber, Duracote, and Allen 11 Aircraft.

Today, Portage County employment has shifted from manufacturing jobs to 68.1 percent service and other jobs. The unemployment statistics show the unemployment rate for Portage at 10.4 percent, which is higher than the 10.2 percent unemployment for the State of Ohio. The percentage of Caucasians is 93.2 percent with African Americans making up 4.1 percent and American Indians, Alaska Natives, and others making up the remaining 2.7 percent of the population. The majority of Portage County, Ohio residents (71.3 percent) own their own homes.

The median household income, based on a 2007 estimate, is \$50,629 with 2.56 persons per
household. Only 10.8 percent of the population in Portage County is living below the poverty
level.

21 **3.2** *History of Community Involvement*

22 In 1996, a survey was mailed and articles appeared in the local newspapers to solicit interest in 23 forming a Restoration Advisory Board (RAB). A selection committee reviewed the applications 24 and chose the new RAB members. The RVAAP RAB was established with 25 members made up 25 of community members and appointed representatives. The RAB consists of a representative 26 from each of the surrounding six townships (Braceville, Newton Falls, Paris, Charlestown, 27 Freedom and Windham), two county representatives (Trumbull and Portage), a representative of 28 the Ohio EPA, and the RVAAP facility manager, who serves as co-chair. The RAB held its first 29 meeting November 13, 1996 and has had 58 meetings as of March 2010. The RAB serves as the 30 main component of the RVAAP public involvement program.

The purpose of the RAB is to promote community involvement in the DoD environmental cleanup activities and to allow the public to review and discuss the progress with decision makers. The RAB rotates its quarterly meetings among the township halls located in Paris, Freedom, Windham and Charlestown. Meetings are held quarterly on the third Wednesday of the month from 6 to 8 p.m. A news release announcing each meeting is sent to the local media. The public is invited to attend the RAB meetings, which are structured to include presentations and a question-and-answer period. The RVAAP records the meetings and prepares minutes for

- 4 question-and-answer period. The RVAAP records the meetings and prepares minutes for 5 approval by the board. The minutes are available for review in the information repositories
- 6 located at Reed Memorial Library, Newton Falls Public Library, and at www.rvaap.org.

7 "Technical Assistance for Public Participation (TAPP) in Defense Environmental Restoration 8 Activities" was established to assist RABs in reviewing technical documents. This assistance 9 may enhance the RAB's understanding of the environmental process and provide an outside 10 independent source of information on DoD restoration activities. The DoD approved RVAAP as 11 eligible for TAPP funding. Selection of a new TAAP provider is in process.

- engione for frair functing. Selection of a new fract provider is in process.
- 12 To keep the RAB and the media aware of RVAAP activities, the RVAAP holds tours of specific 13 areas of concern. The first tour was held in October 1996. Subsequent tours were held in 1999

14 for Erie Burning Ground; in 2000 for Winklepeck Burning Grounds, Demolition Area #2, and

15 Load Line #12; 2001 for Cobbs Pond, Central Burn Pits, and Load Line #11. In 2002, the media

16 and RAB toured Load Lines #2 and #6. They were able to view various ordnance produced at

- 17 RVAAP that was inert or had been detonated or burned.
- 18 Additional media and RAB tours include:
- 19 • 2004: Fuze and Booster Quarry Ponds, Fuze and Booster Load Lines for Open 20 Burning, Winklepeck Burning Grounds UXO Clearance site, and the Melt Pour Load Lines #2, #3, and #4 that were being prepped for demolition operations 21 22 • 2005: Load Lines #2, #3, and #4 and Winklepeck Burning Grounds 23 • 2006: Load Lines #2 and #3 and Winklepeck Burning Grounds • 2007: Load Lines #1, #2, #3 and #4 and Winklepeck Burning Grounds 24 25 • 2008: Load Line #4, Central Burn Pits, Winklepeck Burning Grounds Removal Action 26 sites along Lane 1 and the Sand Creek Barriers 27 2009: Load Lines #1, #2 & #12, Rocket Ridge Area of Open Demolition Area #2, Winklepeck Burning Grounds, Sand Creek TCRA and Ramsdell Quarry Landfill 28

The most recent RAB tour was conducted on September 15, 2009. Overall, the tours received positive media coverage and enabled the RAB members to voice their approval of the environmental progress being made at RVAAP.

1 3.3 Key Community Concerns

An example of some recent concerns expressed by the community came from the May 20, 2009,
RAB meeting on the topic of the Rocket Ridge TCRA. At the meeting, RAB members and others
asked 23 questions after the presentation. The key concerns voiced were:

5 • Worker safety during the project 6 • The possibility of a white phosphorus grenade explosion setting off other munitions 7 items 8 • Potential extent of blast effects of the 500lb bombs if detonation occurred 9 • The possibility for more bombs and munitions to be buried at the site • The possibility of igniting other munitions during the site investigation activities 10 11 • Effect Rocket Ridge has on Sand Creek 12 Questions and concerns about the RVAAP have been recorded and responded to at the RAB 13 meetings. Additionally, community concerns were gathered during community interviews conducted for the Ravenna CRP in 2003. In general, the local community is concerned about the 14 15 following: 16 • Health concerns centering on the potential for cancer clusters downgradient from the 17 site • The amount of chemicals of concern at RVAAP and whether all sources are known 18 19 • The potential for dust from National Guard activities 20 • Protection of watershed drainage, river protection, and groundwater 21 • Protection of the health of National Guardsmen from potential effects of site 22 constituents 23 • Availability of federal funding to complete the cleanup 24 • Potential of improper handling of asbestos removed for disposal 25 • Potential conflicts in site usage between the National Guard and the RVAAP cleanup 26 • Future use of the property. **Responses to Community Concerns** 3.4 27

Regular communication among the community, stakeholders, and the Project Team allows for
greater understanding of different perspectives regarding military munitions response activities
for the RVAAP. This includes timely notification of community involvement opportunities of
various types so that the community can share its questions and concerns with project staff.

- 1 The RVAAP uses multiple methods to address and respond to questions and concerns expressed
- 2 by the community. These methods include:

3 1. Information Repository and Administrative Record File

- 4 Current information and final documents are placed in the information repository and maintained
- 5 by the RVAAP facilities manager. An information repository has been established at the
- 6 following locations:

Reed Memorial Library	Newton Falls Public Library
167 East Main Street	204 South Canals
Ravenna, OH 44266	Newton Falls, OH 44444
(330) 296-2827	(330) 872-1282
Hours: Monday-Friday 10 a.m9 p.m.	Hours: Monday-Thursday 9 a.m8 p.m.
Saturday 10 a.m6 p.m.	Friday-Saturday 9 a.m5 p.m.

7 The AR File is established and maintained by the RVAAP facilities manager and is located at:

8	RVAAP Building 1037
9	Conference Room 8451
10	State Route 5
11	Ravenna, Ohio 44266-9297
12	(330) 358-7311

Because the AR File is located at the installation, access is restricted, but it can be obtained with prior notice by contacting the RVAAP facility manager.

15 **2.** Revised Public Involvement Plan

16 This *PIP Addendum* will be revised as necessary, to keep facts current and to verify information, 17 to assess the community relations program to determine whether the same or different 18 communication approaches will continue to be taken, and to develop strategies preparing the 19 community for possible remediation activities at the former RVAAP.

20 3. Restoration Advisory Board

The RVAAP RAB serves as the main conduit for the exchange of information about the project and the work being conducted at RVAAP, as well as answering questions and concerns from the community. The RAB meetings are scheduled quarterly and meeting announcements are placed in the local newspaper prior to the meeting. RAB meetings are open to the public and community members are encouraged to attend.

1 4. Fact Sheets and Newsletters

2 a. Fact Sheets

3 Comprehensive fact sheets are developed as needed to convey information about the RVAAP

4 site and related issues in easily understood terms. These may be distributed at RAB meetings,

5 used in media kits for tours, and posted on the RVAAP web site at www.rvaap.org.

6 b. Newsletters

7 The RVAAP has prepared newsletters as site activities occurred and mailed them to those on the 8 site mailing list. A contractor writes, designs, and publishes newsletters on a quarterly or bi-9 annual basis. The four color newsletters have been well received by the community in the past

9 annual basis. The four-color newsletters have been well received by the community in the past

10 and have been recognized with awards.

11 5. Information Contact

12 a. Media Spokesperson and Point of Contact:

- 13 Mark Patterson, RVAAP Facility Manager
- 14 Building 1037
- 15 8451 State Route 5
- 16 Ravenna, OH 44266-9297
- 17 Office: (330) 358-7312
- 18 Fax: (330) 358-7314

19 6. Media Kit

20 The RVAAP prepares a media kit to distribute information to the media at a press conference,

- 21 tour or before an event. This tool helps provide accurate, current information about the specific
- 22 announced activity. The media kit is a folder containing:

23 a. News Release or Media Advisory

24 A news release explains the major event announced, provides background information on

- 25 RVAAP and lists a contact person with phone numbers. A shorter media advisory addresses very
- briefly the "Who, What, When, Where, Why" of the event and a contact person to reach for more
- 27 information.

28 b. Fact sheets

- 29 These are prepared on a specific topic and should include facts about the topic. It is written in a
- 30 brief format (usually no more than two pages) and provides concise information in simple terms.

31 c. Newsletters

- 32 These are developed to provide detailed information about an area of concern or give an update
- 33 on the entire environmental investigation.

1 d. Maps and photographs

- 2 These may be included in the media kit. If using digital photographs, provide high resolution (or
- high-quality photographs on disk or CD.) A map is useful in identifying the areas of concern or
 where an event will be held.

5 e. Brochures

A brochure may be produced to address a specific issue or provide general information about theRVAAP.

8 f. Business cards

9 A business card of a media contact person should be included in the folder.

10 7. Web site

The RVAAP has established a web site to inform and educate the public about the RVAAP. The public site contains information about the history of RVAAP, a description of the current environmental investigation, and the areas of concern, previous newsletters, maps and photographs, a list of RAB members, meeting locations and dates and approved meeting minutes, a news page highlighting upcoming public activities, links to other relevant sites, final technical documents, a contact page, and a search option. The web site is updated as information changes and is located at: www.rvaap.org.

18 8. News Releases and Press Conferences

19 Currently, news releases announcing the RAB meetings and inviting media and the public on 20 scheduled tours of the RVAAP site are sent to local media before the event. These are sent on a 21 timely basis to feature other important environmental activities. News conferences with 22 designated speakers also may to highlight key messages and announce significant events.

23 9. Speaker's Bureau

A speaker's bureau has been established to reach out to the community and provide information on the environmental progress at RVAAP. The speaker's bureau may consist of individuals from the RVAAP team or RAB members that have extensive knowledge of the environmental activities and can accommodate a scheduled request. A simple, non-technical PowerPoint[©] presentation may be developed to provide groups with an overview of the RVAAP. Fact sheets or a newsletter with current information including the location of the information repositories, contact name and number, and RAB meeting dates may be prepared and distributed to groups.

31 **10. Site Tours**

32 To continue to keep the RAB, the community, and the media aware of the environmental

33 activities, tours of specific areas of concern have been held on a periodic basis and will be

 $\frac{34}{5}$ scheduled as the project continues.

1 **4.0 RVAAP's Public Involvement Program**

2 4.1 Public Involvement Program

Munitions response services, including the RVAAP's public involvement program under the MMRP, follow CERCLA. CERCLA requires activities at certain milestones to keep the public informed and to provide for an exchange of information. Table 4-1 describes these activities and the milestones at which they occur under CERCLA.

- 7 Under the public involvement program established for RVAAP, the RVAAP will be honest,
- 8 forthright, responsive, clear, and proactive in its communications. The RVAAP will promote and
- 9 maintain a two-way dialogue between the community and the RVAAP. Inviting open and honest
- 10 communications with the community enables the project delivery team to understand and address
- 11 stakeholder concerns about the project as well as possible remediation or cleanup goals that pay

12 special attention to health, safety, and environmental issues. Public involvement activities were

13 based in part on responses to key concerns raised during the community interviews conducted in

14 2003 and on questions and concerns raised at subsequent RAB meetings.

15 The target audiences for this plan include:

- Stakeholders made up of members of the general public who express an interest in RVAAP
- 18 Elected officials
- Interest groups
- 20 Landowners
- Media
- 22 The public involvement program for RVAAP will:
- Provide local officials, residents, and the media with accurate, timely, and understandable information
- Provide for an open dialogue between the RVAAP and the public on site-related munitions response issues
- Provide avenues for public participation in the decision-making process related to munitions response at each site
- Notify local officials, residents, and businesses about fieldwork being planned in their community or near their property before work begins

• Seek to increase the level of understanding in the community of the munitions response services process under the MMRP, the roles of the various government agencies involved, and the technologies used

4 **Table 4-1**

5 Community Relations Responsibilities under the CERCLA Process

			Rer	nedia	Resp	onse	Phase	es		
Community Relations Activities	РА	SI	ASR	Pre-Remedial Investigation	RI	FS	Proposed Plan	Pre-Record of Decision	ROD	Remedial Design, Remedial Action, and 0&M
Contact State/Local Officials	D	R	R		R	R			D	D
News Release	D	D	D		D	D	D			D
Workshops		D	D		D	D				
Community Interviews				D	D					
Community Relations Plan		R	R	R	R	R	R	R	R	R
Determine need for Restoration Advisory Board (RAB)					R					
Initiate and Maintain the Admin Record	R	R	R	R	R	R	R	R	R	D
Establish Information Repository and Inform Public		R	R	R	R	R	R	R	R	
Publicize Technical Assistance Opportunities				R						
Fact Sheets	D	D	D	D	D	D	R			R
Public Notice			R		R		R		R	
Public Meeting			D				R			
Public Comment Period (30-60 days)			R				R			
Responsiveness Summary			R					R		
Revise Proposed Plan (if needed)								R		
Second Comment Period (30-60 days)								R		
Revise Community Relations Plan				R	R	R	R	R	R	R

6 7 8

Chart from Ravenna Community Relations Plan (2003) and revised from Public Participation in the DERP-Formerly Utilized Defense Sites (FUDS) Program, Engineer Pamphlet, 1110-3-8, Dec 1999.

9 D = Desirable, R = Required

- 10 PA= Preliminary Assessment
- 11 SI= Site Inspection

Notes:

- 12 ASR= Archive Search Report
- 13 RI=Remedial Investigation
- 14 FS= Feasibility Study
- 15 ROD= Record of Decision
- 16 Proposed Plan=Recommended Cleanup Alternative
- 17 O&M= Operation and Maintenance

1 4.2 Public Involvement Activities

2 Activity 1: Establish a point of contact

- 3 **Objective:** To provide citizens with an individual(s) to address questions and concerns.
- 4 Method: As a first step in providing the community with opportunities to comment and ask
 5 questions throughout the munitions response services process, the contact person for
 6 RVAAP is Mark Patterson, RVAAP Facility Manager (see Appendix B).
- 7 **Timing:** Ongoing.

8 Activity 2: Establish an administrative record file/information repository.

- 9 Objective: To provide complete, factual documentation on the methods and results of all
 10 munitions response activities.
- 11Method:The AR is kept at RVAAP and may be viewed by appointment. The IRs are located12at two local libraries. Information on the AR/IR can be found in Appendix G.
- 13 **Timing:** Ongoing.

14 Activity 3: Create a site-specific mailing list.

15 **Objective:** To provide a means of direct communication with interested and concerned citizens.

- 16 Method: To address the concerns of the community by making more information available to 17 the public on a regular basis, the RVAAP has created, maintains, and updates a 18 mailing list of interested members of the community. The list consists of local 19 residents; local, state, and federal regulatory agencies; elected officials; government 20 offices; news media contacts; and other interested parties. A list of the regulatory 21 contacts; federal-, state-, and local-elected officials; and associated agencies and 22 parties are listed in Appendices A and B. Because of privacy concerns, the RVAAP 23 does not release the addresses of private citizens on its mailing list.
- 24 **Timing:** Ongoing

25 Activity 4: Prepare and distribute informational materials.

Objective: To provide community members with accurate and understandable information
 about the investigation and cleanup at RVAAP.

Method: To address the community's needs for timely, accurate, and understandable information about RVAAP, the MMRP process, and opportunities for community involvement, the RVAAP prepares and distributes fact sheets at key project

6 **Timing:** As needed.

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Activity 5: Restoration Advisory Board.

- 8 Objective: To provide community members with a meaningful way to become actively involved
 9 in the munitions response process under the MMRP and participate in the decision 10 making process.
- One of the more important forms of community involvement activities is the RAB. 11 **Method:** 12 The RAB serves to promote community awareness and obtain community input on 13 environmental restoration issues. RAB meetings include updates of progress, 14 funding issues, regulatory requirements, munitions response technologies, and other 15 technical and administrative issues. The RAB is made up of interested and concerned 16 community members, Army restoration project managers, Ohio EPA representatives, 17 city and county health and environmental officials, elected officials, and other public 18 representatives. RAB meetings are held quarterly on the third Wednesday of the 19 month from 6:00 p.m. to 8:00 p.m. The meetings are open to the public. Public 20 notices and news releases about the meetings are placed in the local weekly papers, 21 and a meeting announcement is sent to the mailing list. Minutes of the RAB meeting 22 are written and mailed to the mailing list. A list of government officials is presented 23 in Appendix A. Regulatory agency contacts and interested parties are presented in 24 Appendix B. Names of RAB members are listed in Appendix C. Meeting locations 25 are located in Appendix F.
- 26 **Timing:** The RAB meets quarterly. Specific dates are announced before the meeting.

27 Activity 6: Conduct community outreach activities.

- Objective: To enable the RVAAP to educate and inform a broad audience of community
 members on the RVAAP munitions response activities under the MMRP.
 Participation in outreach events serves to build relationships within different
 segments of the communities.
- 32 **Method:** The RVAAP conducts periodic site tours for the RAB and the media.
- 33 **Timing:** Outreach activities are conducted as the need requires and timing permits.

⁷

1 Activity 7: Media relations.

2 3 **Objective:** To provide the news media with accurate and factual information to encourage accurate coverage of munitions response events and milestones under the MMRP.

4 Before the RAB meetings and other significant milestones in the munitions response Method: 5 process at RVAAP, the RVAAP mails fact sheets and faxes news releases and 6 meeting announcements to local newspapers and radio and television stations. The 7 RVAAP provides local news media with up-to-date information on site investigation 8 and cleanup activities as well as upcoming RAB meetings. Important events at RAB 9 meetings, such as the announcement of field investigations or changes in use of technologies, are announced in news releases. Media contacts are listed in 10 11 Appendix D.

12 **Timing:** As needed.

13 Activity 8: Public meetings, availability sessions, informational meetings, and workshops.

- Objective: To provide a means for both formal and informal communication with the community. To provide the community an opportunity to meet with environmental managers in a one-on-one or small-group setting and to allow community members to comment on proposed munitions response activities.
- 18 Method: Holding public meetings is required at specific milestones during the munitions 19 response activities conducted under the MMRP. These meetings are held to explain 20 the nature of the milestone, answer citizens' questions, and to accept public 21 comments. The date, time, and location of these meetings are announced in news 22 releases, public notices, and general mailings to interested parties. Transcripts of the 23 meetings are taken and provided in the AR/IR. Availability sessions and 24 informational meetings or workshops are held during the munitions response process 25 as a means to enhance communication with the public. Meeting locations are listed 26 in Appendix F.
- 27 **Timing:** As needed.

28 Activity 9: Public Involvement Plan Addendum.

Objective: To identify community interests and concerns regarding the MMRP and to develop a
 plan to address these concerns.

31 Method: Periodic reviews of this *PIP Addendum* will be conducted to document and address 32 community interest and concerns and to ensure the chronologies and activities 33 schedules are kept current. Additionally, the RVAAP will conduct community

interviews to address changing or new concerns as the MMRP progresses. The
 RVAAP is responsible for determining when revisions are necessary. At a minimum,
 revisions will occur whenever conditions change significantly, when more effective
 community relations needs are identified or every 3 years.

5 **Timing:** As needed.

1	Appendix A
2	Government Officials Contact List
3	

GOVERNMEMT OFFICIALS

2 **1.** Federal Legislators and Ohio Governor

Governor Ted Strickland

Riffe Center, 30th Floor 77 South High Street Columbus, OH 43215-6108 Office: (614) 466-3555 Fax: (614) 466-9354 Contact Gov. Strickland via Web Form Website: governor.ohio.gov

Senator George Voinovich, R-Ohio

37 W. Broad St., Rm 310 Columbus, OH 43215 Office: (614) 469-6697 Contact Sen. Voinovich via Web Form Website: Voinovich.senate.gov

Representative Tim Ryan, D-17th

222 Cannon Office Building Washington, DC 20515 Office: (202) 225-5261 Fax: (202) 225-3719 Toll Free: (800) 856-4152 Contact Rep. Ryan via Web Form Website: <u>http://timryan.house.gov</u>

4 5

2. State Legislators

6

Senator Tom Sawyer, D-28th

Senate Building Room #049, Ground Floor Columbus, OH 43215-6111 Office: (614) 466-7041 Email: senatorsawyer@maild.sen.state.oh.us

Representative Kathleen Chandler, D-68th

77 S. High Street, 11th Floor Columbus, OH 43215-6111 Office: (614) 466-2004 Fax (614) 719-3968 Email: district68@ohr.state.oh.us

Senator Sherrod Brown, D-Ohio

200 N High St. Room 614 Columbus, OH 43215 Office: (614) 469-2083 Fax: (614) 469-2171 Toll Free 1-888-896-OHIO (6446) Contact Sen. Sherrod Brown via <u>Web Form.</u> Website: <u>brown.senate.gov</u>

Representative Steven C. LaTourette, R-14th

2453 Rayburn House Office Bldg. Washington, DC 20515 Office: (202) 225-5731 Contact Rep. LaTourette via Web Form Website: <u>http://latourette.house.gov</u>

Representative Steven Dryer, D-43rd

77 S. High Street, 12th Floor Columbus, OH 43215-6111 Office: (614) 466-1790 Fax (614) 719-6943 Email: district43@ohr.state.oh.us

 Portage County Officials Portage County Officials 449 South Meridian Street. P.O. Box 1217 Ravenna, Ohio 44266-1217 Phone: (330) 297-3600 Fax: (330) 297-3610 County Commissioners 	
 4 449 South Meridian Street. 5 P.O. Box 1217 Ravenna, Ohio 44266-1217 6 Phone: (330) 297-3600 7 Fax: (330) 297-3610 	
8 County Commissioners	
-	
 9 Chuck Keiper, President 10 Maureen Frederick, Vice-President 11 Christopher Smeiles, Board Member 12 	
132.Ravenna City Officials	
14 City of Ravenna 15 210 Parkway 16 P.O. Box 1215 Ravenna, OH 44266 17 (330) 296-3864 18 www.ravenna-oh.com	
19 Mayor Kevin Poland 20 (Same Address as above) 21 Phone: (330) 296-3864 22 Fax: (330) 297-2164 23	
City Council Members Phone Number Email Address	
Fran Ricciardi, Council President Kevin Poland, Mayor(330) 297-9035 (330)-296-3864 bribelin@ci.raven bribelin@ci.raven bribelin@ci.raven jbica@ci.raven jbica@ci.raven jbica@ci.raven gbrown@ci.raven Steve Bailey, Ward 1(330) 297-9035 (330) 296-3397 jbica@ci.raven bribelin@ci.raven gbrown@ci.raven sbailey@ci.raven sbailey@ci.raven frank Seman, Ward II Jack Ferguson, Ward IV Scott Rainone, Ward IV Kathryn Hann, Council Clerk(330) 297-9035 (330) 297-9035 (330) 296-3397 (330) 296-3397 bribelin@ci.raven bribelin@ci.raven bribelin@ci.raven pbrown@ci.raven sbailey@ci.raven frank Seman, Ward II (330) 296-9222 (330) 297-7320 (330) 297-1821 (330) 297-1821 (330) 297-215524	na.oh.us na.oh.us oh.us na.oh.us na.oh.us na.oh.us enna.oh. us na.oh.us

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1	City of Ravenna Health Commissioner
2	Lynette Blasiman
3	Phone: (330) 297-2163
4	lblasiman@ci.ravenna.oh.us
5	-

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1	Appendix B
2 3	Regulatory Agencies and Interested Parties
4	

	Dian		
1		INTERESTE	D PARTIES
2	a.	Ravenna Army Ammunition Plant	
		RVAAP Facility Manager:	Mark Patterson Ravenna Army Ammunition Plant Building 1037 8451 St. Route 5 Ravenna, OH 44266-9297 Office: (330) 358-7312 Fax: (330) 358-7314 Email: mark.c.patterson@us.army.mil
		RAB Administrative Officer:	Christy Esler (same address as above) Office: (330) 358-7311 Fax: (330) 358-7314 Mobile: (330) 980-4466 Email: <u>christy.esler@us.army.mil</u>
	b.	U.S. Army Environmental Center	
		AEC Restoration Manager:	Mark Krivansky SFIM-AEC-BRC U.S. Army Environmental Center 4480 Beal Rd Aberdeen Proving Ground, MD 21010-5401 Office: (410) 436-0454 Email: mark.krivansky@us.army.mil
	c.	Ohio Army National Guard Camp Ravenna Joint Military Training Center	
		Camp Ravenna Garrison Commander:	LTC Ed Meade, Building 1037 8451 St. Route 5 Ravenna, OH 44266-9297 Office: (614) 336-6560 E-mail: william.meade1@us.army.mil
		Camp Ravenna Environmental Supervisor:	Tim Morgan (same address as above) Office: (614) 336-6568 E-mail: timothy.m.morgan@us.army.mil

	Camp Ravenna Environmental Specialist:	Katie Elgin (same address as above) Office: (614) 336-6136 E-mail: <u>katie.elgin@us.army.mil</u>
d.	Base Realignment and Closure (BRAC) Office	
	BRAC Program Manager:	William O'Donnell Assistant Chief of Staff for Installation Management 2530 Crystal Drive Arlington, VA 22202 Office: (703) 601-1570 Email: william.odonnell@us.army.mil
ρ	National Guard Bureau	

e. National Guard Bureau

Cleanup	Program	Manager:	Ki
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Kim Harriz

NGB-AR-EI 111 S. George Mason Drive Arlington, VA 22206 Office: (703) 607-7991 Email: <u>kim.harriz@us.army.mil</u>

f. U.S. Army Corps of Engineers Contacts

U.S. Army Corps of Engineers, Louisville District:

Glen Beckham, USACE LRL IRP/MMRP Project Manager CELRL-PM 600 Dr. Martin Luther King Jr. Drive Louisville, KY 40202-2232 Office: (502) 315-6799 Fax: (502) 315-6309 Email: Glen.Beckham@usace.army.mil

Jay Trumble, USACE LRL MMRP Technical Manager (same address as above) Office: (502) 315-6349 Fax: (502) 315-6309 fax Email: Jay.N.Trumble@usace.army.mil

Jenn Domashevich, Public Affairs Specialist (same address as above) Office: (502) 315-7452 Fax: (502) 315-6771 Fax Email: Jenn.S.Domashevich@usace.army.mil

U.S. Army Corps of Engineers, Baltimore District:

Jeffrey May, USACE Contracting Officer

CENAB-CT 600 Dr. Martin Luther King Jr. Drive Louisville, KY 40202-2232 Office: (410) 962-5617 Email: Jeffrey.B.May@usace.army.mil

Christopher Evans, Contracting Officer's Representative

CENAB-EN-HM (same address as above) Office: (410) 962-2252 Email: <u>Christopher.L.Evans@usace.army.mil</u>

Travis McCoun, MMDC Technical Manager

CENAB-CT (same address as above) Office: (410) 962-6728 Email: Travis.McCoun@usace.army.mil

REGULATORY AGENCIES

1 2

3 Ohio Environmental Protection Agency, NE District – DERR

- 4 Eileen Mohr, Project Manager
- 5 2110 East Aurora Rd
- 6 Twinsburg, OH 44087
- 7 Phone: (330) 963-1221
- 8 Email: eileen.mohr@epa.state.oh.us

9 Ohio Environmental Protection Agency, NE District – DERR

- 10 Todd Fisher, Project Coordinator
- 11 2110 East Aurora Rd
- 12 Twinsburg, OH 44087
- 13 Phone: (330) 963-1148
- 14 Email: todd.fisher@epa.state.oh.us
- 15
- 16

1	Appendix C
23	Restoration Advisory Board Members

RVAAP RESTORATION ADVISORY BOARD

Dr. Jay Abercrombie 2321 Bixler Dr. Suffield, Ohio 44260

Ms. Rebecca Carter 132 Laubert Rd. P.O. Box 427 Randolph, Ohio 44265

Mr. Walter Landor 204 S. Aspen Ct., Unit 1 Warren, OH 44484

Ms. Irene Glavies-Lutz 5488 Liberty Ave. Newton Falls, Ohio 44444

Ms. Nina Miller 789 State Route 534, SW Newton Falls, Ohio 44444

Mr. Thomas Smith 5975 McClintocksburg Rd. Ravenna, Ohio 44266

Mr. Bill Steiner 2581 Hartville Rd. Rootstown, Ohio 44272

Mr. George Tompkins 8940 Creamery St. Wayland, Ohio 44285

MUNICIPALITIES:

Mr. Mark Patterson RVAAP Facility Manager/Co-Chairman 8451 State Route 5, Bldg. 1037 Ravenna, OH 44266

Mr. Howard Furl Windham Township Representative 9450 Bryant Rd. Windham, Ohio 44288 Ms. Sue Boles 8800 Cable line Rd. Ravenna, Ohio 44266

Mr. James DiPaola 3201 Summit Rd. Ravenna, Ohio 44266

Ms. Sarah Lock 9786 Min-Young Rd. Ravenna, Ohio 44266

Mr. James Mayer P.O. Box 148363 Center Street Garrettsville, Ohio 44231

Mr. Richard Poots 10232 Hopkins Rd. Garrettsville, Ohio 44231

Mr. Dan Spicer 6180 State Rt. 225 Ravenna, Ohio 44266

Ms. Nancy Taylor 5761 State Route 225 Ravenna, Ohio 44266

Mr. Delbert Woloski 2422 Ridgewood Newton Falls, Ohio 44444

Mr. Joseph Beutler Charleston Township Representative 5950 Knapp Rd. Ravenna, Ohio 44266

Mr. JJ Leet Freedom Township Representative 9386 Limeridge Rd. Mantua, Ohio 44255

Ms. Eileen Mohr Ohio EPA 2110 East Aurora Rd. Twinsburg, Ohio 44087

Mr. Jon Barber Portage County Commissioner Representative Office of Homeland Security & Emergency Mgmt. Agency 8240 Infirmary Rd. Ravenna, Ohio 44266

Mr. Thomas Tadsen, Retired OHARNG LTC Community Co-Chairman 7657 West Lake Blvd. Kent, Ohio 44240-6342

NON-MEMBER

Christy Esler RVAAP RAB Administrator 8451 State Route 5, Bldg. 1038 Ravenna, Ohio 44266

Updated: September 2009

1 2 Mr. Bill Miller Trumbull County Commissioner Rep. 347 North Park Ave. Warren, Ohio 44481

Ms. Dorene Spicer Paris Township Trustee 6180 State Rt. 225 Ravenna, Ohio 44266

Appendix D
Media Contact List

Television Stations

WEWS TV ABC News Channel 5

44 E Exchange St Akron, OH 44328 Station: (330) 434-0616 Fax: (216) 431-3666

WVIZ PBS Ideastream

Idea Center @ Playhouse Square 1375 Euclid Avenue Cleveland OH 44115-1835 Station: (216) 961-6100

WBNX – WB

2690 State Rd Cuyahoga Falls, OH 44223 Station: (440) 843-5555 Fax: (330) 929-2410

WYTV – ABC

3930 Sunset Blvd Youngstown, OH 44512 Station: (330) 783-2930 Fax: (330) 782-5261

WKBN - FOX

3930 Sunset Blvd. Youngstown, OH 44512 Station: (330) 782-1144 Fax: (330) 782-5261

Radio Stations

WJMP 1520 AM

2449 State Route 59 Ravenna, OH 44266 Station: (330) 678-1520

WNIR – 100 – Talk

P.O. Box 2170 Akron, OH 44309 Station: (330) 673-2323 Fax: (330) 673-0301

WVPX 23 TV

1 S Main Street Akron, OH 44308 Station: (330) 434-2323

WEAO TV Channel 49

1750 Campus Center Dr Kent, OH 44240 Station: (330) 677-4549 Fax: (330) 678-0688 http://www.ch4549.org

WOIO- CBS

1717 E 12th Street Cleveland, OH 44114 Station: (216) 771-1943 Fax: (216) 436-5460

WKYC-NBC

1333 Lakeside Ave Cleveland, OH 44114 Station: (216) 344-3333 Fax: (216) 344-3326

WAPS 91.3 - Quality Rock

Public Radio 65 Steiner Avenue Akron, OH 44301 Office: 330-761-3099 Studio: 330-761-9277

Clear Channel Radio

6200 Oak Tree Blvd Independence, OH 44131 Newsroom: (216) 520-2600 Newsroom Fax: (216) 901 8133

Newspapers

Youngstown Publishing Co

PO Box 714 Youngstown, OH 44501 News: (330) 744-5023 Fax: (330) 744-5838 http://www.business-journal.com

Record-Courier

126 N Chestnut St Ravenna, OH 44266 Newsroom: (330) 296-9657 Newsroom fax: (330) 296-2698 http://www.recordpub.com/

Associated Press

815 Superior Ave E Suite 1203 Cleveland, OH 44114-2768 Newsroom: (216) 771-2172 Newsroom fax: (216) 771-4218

Akron Beacon Journal

44 E Exchange St Akron, OH 44308 Newsroom: (330) 996-3600 Newsroom fax: (330) 376-9235 http://www.ohio.com/bj/

1 2

Tribune Chronicle

240 Franklin St SE Warren, OH 4448 Newsroom: (330) 841-1600 Newsroom fax: (330) 841-1717 http://www.tribunechronicle.com/

The Vindicator

135 Pine Ave SE # 208 Warren, OH 44481 Newsroom: (330) 392-0176 Newsroom fax: (330) 747-6712 http://www.vindy.com/

Akron Legal News Inc

60 S Summit Street Akron, OH 44308 Newsroom: (330) 376-0917 Newsroom fax: (330) 376-7001

Appendix E
Interview Questions

1 Interview Questions

Note: Interviews were conducted for the Facility-wide Community Relations Plan in 2003 and are
 scheduled to be conducted for the next Facility-wide Community Relations Plan Update.

4	Date: Time:
5	Location:
6	Interviewee:
7	Affiliation:
8	Interviewer:
9	Script: Hello. I am calling on behalf of the U.S. Army Corps of Engineers.
10	Would you have a few minutes to visit with me?
11 12 13	The Corps wants to understand what the folks in your community want to know about their environmental remediation efforts at the former Ravenna Army Ammunition Plant, and how the community would like to get information.
14 15	May I ask you a few questions, so your opinions and any questions you may have can be included as they plan for this effort? I expect this to take us about 15 minutes.
16 17	(If this is not convenient, is there a time that you would like for me to call you back? Or we can meet personally, during the week of August 25, if you would prefer that.)
18	1) How long have you lived in the area?
19 20 21	1A) What name do local people use to refer to the Ravenna Army Ammunition Plant? 1B) Are you familiar with the former Ravenna Army Ammunition Plant? 1C) How did you first learn about the site?
22 23 24	2) Have you ever talked with any Corps of Engineers, state, or environmental officials about their ongoing work at the former Ravenna Army Ammunition Plant? If yes, did they contact you or did you contact them? What was the nature of the contact and were you

- 25 satisfied with their information?
- 26 3) Are you aware that the former Ravenna Army Ammunition Plant site is involved in
- 27 environmental restoration activities? If yes, what do you know about those activities?

1 4) Do you have any interests or concerns about the Ravenna Army Ammunition Plan site 2 remediation activities?

- 5) Are you aware of any interests or concerns that any of your neighbors or friends may have about the site? If so, what are they?
- 5 6) Do you know where information about environmental restoration activities at the 6 former Ravenna Army Ammunition site can be obtained? If yes, where?
- 7 7) Have you received any information about the environmental restoration activities at the
- 8 former Ravenna Army Ammunition Plant site? If yes, how did you receive it? Are you 9 satisfied with the information?
- 10 8) Would you like to be added to the site's mailing list to receive newsletters and other

11	general information	about the p	proposed plans?	Yes	No
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12 If ves: 13 Name: _____ 14 Address: Telephone: (H)_____ (W) _____ 15 E-mail: 16 9) How does the community receive information about local events and news (i.e. radio, 17 18 television, newspaper, other and what particular stations or papers)? 19 10) What method and frequency of information would you prefer? 20 Method Frequency

20	mouriou	Trequency
21	Mail	
22	Telephone	
23	Newspaper	
24	Radio	
25	Television	
26	E-Mail	
27	Web Site	
28	Local Information Repository	Suggested location:
29	Community Hotline	
30	Other	

- 11) Would you be interested in attending a meeting about the environmental restoration
- 32 activities at the former Ravenna Army Ammunition Plant site? If yes, what days and times

33 are convenient for you? Are there certain community locations (buildings or meeting

34 rooms) that you would recommend public meetings be held?

- 1 12) Do you have a particular meeting style you prefer? (Probes: discussions, formal
- 2 presentations followed by Q&As, informal, open house, workshops, small groups, coffees)
- 13) Is there anyone else you think we should interview concerning the site? May we useyour name? (Get names and phone numbers)
- 5 14) Is there anything else about the former Ravenna Army Ammunition Plant site that you6 would like to comment on?
- 7 Thank you for your time. Your information will be used as the Army plans their public 8 involvement activities.
- 9

Appendix F	
Glossary	

GLOSSARY

Administrative Record File (AR): A file containing documents that were considered or relied
on by USACE to form the basis for the selection of a response action. This file is to be available
for public review.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA): A
 federal law enacted by Congress in 1980 and modified in 1986 by the Superfund Amendments
 and Reauthorization Act (SARA).

8 **Defense Environmental Restoration Program (DERP)**: A Comprehensive Environmental 9 Response, Compensation and Liability Act environmental cleanup program. It was established to 10 identify, assess, investigate and clean up substances at past disposal and spill sites.

Discarded Military Munitions (DMM): Military munitions that have been abandoned without proper disposal or removed from storage or in a military magazine or other storage area for the purpose of disposal. The term does not include unexploded ordnance, military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of consistent with applicable environmental laws and regulations.

16 **Environmental Protection Agency (EPA)**: The primary federal agency responsible for 17 enforcement of federal laws protecting the environment.

Information Repository (IR): A place where current information, technical reports, and reference documents concerning a U.S. Army Corps of Engineers Environmental Restoration Program site are stored. The information repository is usually in a public library near the site and is available for public access and review.

22 Military Munitions (MM): All ammunition products and components produced or used by or 23 for DoD or the U.S. Armed Services for national defense and security, including MM under the 24 control of the DoD, the U.S. Coast Guard, the U.S. Department of Energy (DOE), and National Guard personnel. The term military munitions includes: confined gaseous, liquid and solid 25 26 propellants, explosives, pyrotechnics, chemical and riot control agents, smokes and incendiaries 27 used by DoD components, including bulk explosives and chemical warfare agents, chemicals, 28 rockets, guided and ballistic missiles, bombs, war heads, mortar rounds, artillery ammunition, 29 small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and 30 dispensers, demolition charges, and devices and components thereof. MM do not include wholly 31 inert items, improvised explosive devices, and nuclear weapons, nuclear devices and nuclear 32 components, thereof. However, the term does include non-nuclear components of nuclear 33 devices, managed under DOE's nuclear weapons program, after all required sanitation operations 34 under the Atomic Energy Act of 1954, as amended, have been completed.

35 **Military Munitions Response Program (MMRP):** Congress established the Military 36 Munitions Response Program under the Defense Environmental Restoration Program (DERP) to 37 address unexploded ordnance (UXO), discarded military munitions (DMM) and munitions 38 constituents (MC) located on current and former defense sites. MMRP eligible sites include other 39 than operation ranges where UXO, DMM, or MC are known or suspected and the release occurred prior to September 30, 2002. The DoD is currently establishing policy and guidance for munitions response actions under the MMRP. However, key program drivers developed to date conclude that munitions response actions will be conducted under the process outlined in the National Contingency Plan (NCP) (40 CFR 300) as authorized by the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 United States Code (U.S.C.) 9605, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), Pub. L. 99-499 (hereinafter CERCLA).

8 **Munitions Constituents (MC):** Any materials originating from unexploded ordnance, DMM, or 9 other military munitions, including explosive and non-explosive materials and emission, 10 degradation, or breakdown elements of such ordnance and munitions.

Munitions Debris (MD): Remnants of munitions (e.g., fragments, penetrators, projectiles, shell casings, links, fins remaining after munitions use, demilitarization, or disposal).

Munitions and explosives of concern (MEC): This term, which distinguishes specific categories of military munitions that may pose unique explosives safety risks means: (A) Unexploded ordnance (UXO), as defined in 10 U.S.C. 101(e)(5)(A) through (C); Discarded military munitions (DMM), as defined in 10 U.S.C. 2710 (e)(2); or (C) Munitions constituents (e.g., TNT, RDX) as defined in 10 U.S.C. 2710 (e)(3), present in high enough concentrations to pose an explosive hazard.

19 **Munitions response:** A response action, including investigation, removal actions, and remedial 20 actions, to address the explosives safety, human health, and/or environmental risks presented by 21 munitions and explosives of concern (MEC) and/or munitions constituents (MC).

National Contingency Plan (NCP): The federal regulation that guides determination of the sites to be corrected under both the Superfund program and the program to prevent or control spills into the surface waters or elsewhere.

Ohio Environmental Protection Agency (Ohio EPA): The state agency responsible for
 enforcement of environmental protection laws. The Ohio EPA is the lead regulatory agency for
 RVAAP.

Public Involvement Plan (PIP): A plan specifically designed to address the public's communication needs during investigation and response activities. The plan is designed to encourage stakeholder input into the decision-making process.

- RDX: Cyclotrimethylenetrinitramine, also known as royal demolition explosive (RDX), is
 an <u>explosive nitroamine</u> widely used in military and industrial applications.
- 33 **Remedial Action (Operations):** The remedial phase in which the remedy is in place and

34 operating to achieve the cleanup objective identified in the Record of Decision (ROD) or other

- 35 formal decision document. Any system operation (long-term operations) or monitoring (long-
- 36 term monitoring) requirements during this time are considered Remedial Action (Operations)
- 37 (RA(O)). RA(O) includes development and implementation of an exit or ramp down strategy for
- 38 LTM activities at each site.

- 1 **Remedy-In-Place:** A final remedial action that has been constructed and implemented and is
- 2 operating as planned in the remedial design. Because operation of the remedy is ongoing, the site
- 3 cannot be considered Response Complete (RC)
- **Restoration Advisory Board (RAB):** RABs are to serve as forums for discussion and exchange of information between agencies and affected communities. They provide an opportunity for stakeholders to have a voice and actively participate in the review of technical documents, to review restoration progress, and to provide individual advice to decision makers regarding restoration activities.
- 9 Superfund Amendments and Reauthorization Act (SARA): A federal law enacted by 10 Congress in 1986. The Superfund Amendments and Reauthorization Act amended the 11 Comprehensive Environmental Response, Compensation and Liability Act of 1980. This Act sets 12 cleanup standards that strongly favor permanent remedies, gives the Environmental Protection 13 Agency more control over cleanup procedures and provides an opportunity for the State EPA and 14 the community to comment on the recommended cleanup alternative. This Act sets health and 15 safety standards for workers at cleanup sites.
- 16 **Surface water**: Ground-level bodies of water, such as rivers, lakes, and streams.
- 17 Technical Assistance for Public Participation (TAPP): A DoD program aimed at providing 18 community members of RABs and Technical Review Committees (TRCs) with access to 19 independent technical consultants using government-supported acquisitions. The TAPP program 20 is designed to help community members understand scientific and engineering issues pertinent to 21 the installation's environmental restoration activities.
- TNT: Trinitrotoluene is a useful <u>explosive material</u> with convenient handling properties. The explosive yield of TNT is considered the <u>standard measure of strength</u> of <u>bombs</u> and other <u>explosives</u>.
- Unexploded Ordnance (UXO): Military munitions that have been primed, fuzed, armed, or otherwise prepared for action; have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material; and remain unexploded either by malfunction, design, or any other cause.

1	Appendix G
2	Meeting Locations
3	0
4	

MEETING LOCATIONS

- 2 The Restoration Advisory Board meetings are rotated every quarter to one of four area Township
- 3 Halls. The meetings are usually held in March, June, September and November with a tour of a
- 4 specific area of concern of RVAAP scheduled in July or August. The RAB meets from 6:00 p.m.
- 5 to 8:00 p.m.

6 Paris Township

- 7 Shearer Community Center
- 8 9355 Newton Falls Road
- 9 Ravenna, OH 44266
- 10 Office: (330) 358-2600
- 11 Linda Shaulis, Fiscal Officer

12 Freedom Township Hall

- 13 Town Hall
- 14 Triangle of Routes 700, 303 & 88
- 15 Windham, OH 44288
- 16 Office: (330) 297-1709
- 17 Fax: (330) 676-6758
- 18 Rosemary Nicholas, Fiscal Officer

19 Windham Town Hall

- 20 9011 North Main Street
- 21 Windham, OH 44288
- 22 Office: (330) 326-2971
- 23 Jayme Neikirk, Clerk

24 Charlestown Town Hall

- 25 6735 Rock Spring Road
- 26 Ravenna, OH 44266
- 27 Office (330) 296-2018
- 28 Ruth Craft, Fiscal Officer
- 29
- 30

1	Appendix H
2	Repository Locations
3	

REPOSITORY LOCATIONS

3 Administrative Record File and Information Repository

- 4 The Administrative Record File is established and maintained by the RVAAP Facilities Manager
- 5 and is located at:

6 RVAAP

- 7 Building 1037, Conference Room 8451
- 8 State Route 5
- 9 Ravenna, Ohio 44266-9297
- 10 Office: (330) 358-7311
- 11 Because the Administrative Record File is located at the installation, access is restricted, but can
- 12 be obtained with prior notice.
- 13 Current information and final documents are placed in the information repository and maintained
- 14 by the RVAAP Facilities Manager. Information repositories have been established at:

15 Reed Memorial Library

- 16 167 East Main St
- 17 Ravenna, OH 44266
- 18 Office: (330) 296-2827
- 19 Hours: Mon-Fri 10 a.m.-9 p.m., Sat 10 a.m.-6 p.m.

20 Newton Falls Public Library

- 21 204 South Canals
- 22 Newton Falls, OH 44444
- 23 Office: (330) 872-1282
- 24 Hours: Mon-Thurs 9 a.m.-8 p.m., Fri-Sat 9 a.m.-5 p.m.

1 2 3	Appendix I Other Resources	
4		

1 OTHER RESOURCES 2 A web site has been established where project documents and other information pertinent to the 4 project are located. The website is at: www.rvaap.org 5