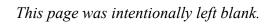
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March 11, 2019

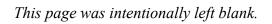


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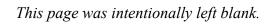
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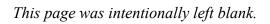


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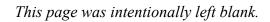
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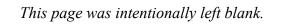
CONTRACTOR'S STATEMENT OF INDEPENDENT TECHNICAL REVIEW

HydroGeoLogic, Inc. has completed the *Draft No Further Action Record of Decision for RVAAP-032-R-01 40mm Firing Range Munitions Response Site*, Version 1.0, at the former Ravenna Army Ammunition Plant, Portage and Trumbull Counties, Ohio. Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in the project. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of data quality objectives, technical assumptions; methods, procedures, and materials to be used; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets customer's needs consistent with law and existing United States Army Corps of Engineers policy.

Reviewed/Approved by:	Timothy Leahy, PG, PMP Project Manager APTIM Federal Services	Date: March 11, 2019
Reviewed/Approved by:	Kimberly Voughn Project Manager	Date: March 11, 2019



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64	11107 Sunset Hills Road
65	Suite 400
66	Reston, Virginia 20190
67	March 11, 2019



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⁷⁴ ARNG – Army National Guard

⁷⁵ COR – Contracting Officer's Representative

⁷⁶ IED – Installation and Environment Division

⁷⁷ OHARNG – Ohio Army National Guard

⁷⁸ RVAAP – Former Ravenna Army Ammunition Plant

⁷⁹ USACE – United States Army Corps of Engineers

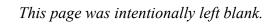


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ACRONYMS AND ABBREVIATIONS

amsl	above mean sea level
Army	U.S. Department of the Army
ARNG	Army National Guard
Camp Ravenna	Camp Ravenna Joint Military Training Center
CB&I	CB&I Federal Services, LLC
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CJAG	Camp James A. Garfield Joint Military Training Center
CSM	Conceptual Site Model
DFFO	Director's Final Findings and Orders
DMM	Discarded Military Munition
DoD	Department of Defense
e^2M	engineering-environmental Management, Inc.
ERA	ecological risk assessment
FS	Feasibility Study
НА	hazard assessment
HE	high explosives
HGL	HydroGeoLogic, Inc.
HHRA	human health risk assessment
HRR	Historical Records Review
ISM	Incremental Sampling Methodology
MC	munitions constituents
MD	munitions debris
MEC	munitions and explosives of concern
mm	millimeter
MMRP	Military Munitions Response Program
MRS	munitions response site
MRSPP	Munitions Response Site Prioritization Protocol
NFA	No Further Action
NFA Proposed Plan	Final No Further Action Proposed Plan for RVAAP 032-R-01 40mm Firing Range
	MRS
OHARNG	Ohio Army National Guard
Ohio EPA	Environmental Protection Agency
RDX	Research Department Explosives
RI	Remedial Investigation
ROD	Record of Decision
RVAAP	Ravenna Army Ammunition Plan
SI	Site Inspection

ACRONYMS AND ABBREVIATIONS (continued)

166	TNT	2,4,6-Trinitrotoluene
167 168 169	USACE USP&FO UXO	U.S. Army Corps of Engineers U.S. Property and Fiscal Officer unexploded ordnance

PART I: DECLARATION

A. SITE NAME AND LOCATION

- The Army National Guard (ARNG) developed this No Further Action (NFA) Record of Decision (ROD) 172
- for the RVAAP-032-R-01 40 millimeter(mm) Firing Range Munitions Response Site (MRS) located at the 173
- former Ravenna Army Ammunition Plant (RVAAP) in Ravenna, Ohio (Figure 1). The former RVAAP is 174
- now known as Camp James A. Garfield Joint Military Training Center (CJAG). The 40mm Firing Range 175
- MRS is located in the northeastern portion of CJAG (Figure 2). CJAG was previously known as Camp 176
- Ravenna Joint Military Training Center (Camp Ravenna) and that name will be used in some historical 177
- reports. 178

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- CJAG is 21,683 acres and is federally owned. The facility is located in Portage and Trumbull Counties, 179
- Ohio, approximately 3 miles east-northeast of the City of Ravenna (Figure 1). Administrative 180
- accountability for CJAG was transferred to the U.S. Property and Fiscal Officer (USP&FO) for Ohio (the 181
- property owner) in multiple transfers the last being in September 2013. The facility is licensed to the Ohio 182
- Army National Guard (OHARNG) for use as a military training facility (Federal Facility ID No. 183
- 184 OH213820736).
- To maintain a distinction between historical operations and current activities, the term "RVAAP" will be 185
- used for historical discussions and "CJAG" will be used when referring to the current facility activities. 186

B. STATEMENT OF BASIS AND PURPOSE

- The ARNG is the lead federal agency for environmental response actions at CJAG. The ARNG in 188
- consultation with the Ohio Environmental Protection Agency (Ohio EPA), determined that NFA is the 189
- selected remedy for the 40mm Firing Range MRS at the CJAG. The NFA determination meets the 190
- 191 requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
- of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 and the National Oil 192
- and Hazardous Substances Pollution Contingency Plan. The Army's decision is based on information 193
- contained in the Administrative Record file for the 40mm Firing Range MRS. 194
- The Ohio EPA, the supporting state regulatory agency, reviewed and concurred with the Final No Further 195
- Action Proposed Plan for RVAAP-032-R-01 40mm Firing Range Munitions Response Site (NFA Proposed 196
- Plan; HydroGeoLogic, Inc. [HGL], 2018b) and their concurrence letter is included at the beginning of this 197
- ROD. The NFA Proposed Plan presented the Army's preferred remedy for addressing the 40mm Firing 198
- 199 Range MRS and invited public involvement during the comment period (October 25, 2018 through
- December 1, 2018) and public meeting (November 1, 2018). No U.S. Department of Defense (DoD) 200
- military munitions (i.e., unexploded ordnance [UXO], discarded military munitions, or munitions 201
- constituents [MC]-related contamination) originating from historical activities associated with the 40mm 202
- 203 Firing Range MRS have been found at the MRS throughout the CERCLA process. The NFA determination
- under CERCLA at the 40mm Firing Range MRS satisfies the requirements of the Director's Final Findings 204
- and Orders (DFFO) (Ohio EPA, 2004), specifically by documenting the Ohio EPA's concurrence with the 205
- closeout of the Military Munitions Response Program (MMRP) investigation conducted for this MRS under 206
- 207 Section XII, paragraph 26.

C. DESCRIPTION OF THE SELECTED REMEDY

- 209 No DoD military munitions confirmed to be munitions and explosives of concern (MEC) were encountered
- at the MRS during the Remedial Investigation (RI) field work, and only munitions debris (MD) were found. 210
- The results of the RI did not indicate the presence of MC-related contamination at the MRS. Therefore, 211

212213	NFA is the selected remedy for the 40mm Firing Range MRS under the MMRP pursuant to CERCLA requirements.
214	D. STATUTORY DETERMINATION
215 216 217 218 219 220 221 222 223	The results of the RI fieldwork for the 40mm Firing Range MRS support the determination that no risks associated with exposure to DoD military munitions and MC-related contamination exist at the MRS. Because no risks have been identified at the MRS, the ARNG has determined that NFA is necessary for DoD military munitions and MC-related contamination at the 40mm Firing Range MRS. NFA is protective of human health and the environment and meets the statutory requirements for cleanup standards established in Section 121 of CERCLA. Because there are no risks to human health or the environment associated with DoD military munitions and MC-related contamination at the MRS, five-year reviews are not required. No other remedial action is necessary to ensure protection of human health and the environment.
224	E. AUTHORIZING SIGNATURE
225	
226	Approve:
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228	
	William M. Myer Date
	COL, GS
229	I&E, Army National Guard

PART II: DECISION SUMMARY

A. SITE NAME, LOCATION, AND DESCRIPTION

- The RVAAP, now known as the Camp James A. Garfield Joint Military Training Center (CJAG) is located
- in northeastern Ohio within Portage and Trumbull Counties and is approximately 3 miles east-northeast of
- 234 the city of Ravenna. The facility is federally owned and is approximately 11 miles long and 3.5 miles wide.
- The facility is bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad
- 236 to the south; Garret, McCormick, and Berry Roads to the west; the Norfolk Southern Railroad to the north;
- and State Route 534 to the east (Figure 1). CJAG is surrounded by the communities of Windham,
- Garrettsville, Newton Falls, Charlestown, and Wayland.
- Administrative accountability of the 21,683-acre facility has been transferred to the USP&FO, which
- subsequently licensed CJAG to the OHARNG for use as a training site. The restoration program for the
- facility involves the remediation of areas affected by military activities when the RVAAP was in operation.
- The 40mm Firing Range MRS is an 8.55-acre parcel located in the southern-central portion of CJAG within
- Portage County (Figure 2). The MRS is northeast of the intersection of Fuze and Booster Spur Road and
- Fuze and Booster Road (CB&I Federal Services LLC [CB&I], 2015). Figure 3 presents the current
- boundaries of the MRS.
- The 40mm Firing Range MRS was investigated under the MMRP, which was established under the Defense
- 247 Environmental Restoration Program to address DoD military munitions located on current and former
- defense sites. Sites that are eligible under the MMRP are non-operational ranges where military munitions
- are known or suspected to be present. The 40mm Firing Range MRS was determined to be eligible under
- the MMRP.

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B. SITE HISTORY AND ENFORCEMENT ACTIVITIES

- The RVAAP was constructed in 1940 and 1941 for the assembly/loading and depot storage of ammunition.
- 253 While serving as an ammunition plant, the RVAAP was a U.S. Government-owned and contractor-operated
- industrial facility. The ammunition plant consisted of 12 munitions assembly facilities, referred to as "load
- lines." Load Lines 1 through 4 were used to melt and load 2,4,6-Trinitrotoluene (TNT) and Composition B
- 256 (a mixture of TNT and Research Department Explosive [RDX]) into large-caliber shells and bombs.
- 257 Operations on the load lines produced explosive dust, spills, and vapors that collected on the floors and
- walls of each building. Periodically, the floors and walls were cleaned with water and steam. After cleaning,
- 259 the "pink water" wastewater, which contained TNT and Composition B, was collected in concrete holding
- tanks, filtered, and pumped into unlined ditches for transport to earthen settling ponds. Load Lines 5 through
- 261 11 manufactured fuzes, primers, and boosters. From 1946 to 1949, Load Line 12 produced ammonium
- 262 nitrate for explosives and fertilizers; subsequently, it was used as a weapons demilitarization facility.
- In 1950, the facility was placed on standby status, and operations were limited to renovation,
- demilitarization, normal maintenance of equipment, and munitions storage. Production activities resumed
- 265 from July 1954 to October 1957 and again from May 1968 to August 1972. Demilitarization and production
- activities were conducted at Load Lines 1, 2, 3, and 12. Demilitarization activities included disassembling
- 267 munitions and melting out and recovering explosives using hot water and steam processes. These activities
- continued through 1992.
- 269 In addition to production and demilitarization activities at the load lines, other activities conducted at the
- 270 RVAAP included the burning, demolition, and testing of munitions. The locations used as burning and
- demolition grounds consisted of large, open areas and abandoned quarries. Other areas of concern

- associated with the RVAAP include a landfill, an aircraft fuel tank testing area, and various industrial
- support and maintenance facilities (CB&I, 2015).
- The 40mm Firing Range MRS is the location of a former 40mm firing range that operated between 1969
- and 1971. The area of the MRS consists of the 8.55 acres former firing range itself and the overshot area
- the furthest location a 40mm grenade could have travelled from the firing point. The former firing range
- was used to perform acceptance tests that included muzzle velocity measurements and impact function
- tests. Munitions reportedly fired at the former firing range included the M407A1-series 40mm practice
- grenade and the M406-series high explosive (HE) 40mm grenade. The M406- and M407A1-series grenades
- were designed to be fired from 40mm grenade launchers attached to rifles. The 40mm practice grenades
- contained yellow marker dye, M9-series propellant, and RDX booster pellets (Army, 1977). The M9-series
- propellant consisted of nitrocellulose, nitroglycerin, potassium nitrate, ethyl centralite, and graphite. The
- 283 M406-series HE 40mm grenades contained Composition B explosive, which is a mixture of RDX and TNT
- (engineering-environmental Management, Inc. $[e^2M]$, 2007). According to the *Final Installation*
- 285 Assessment of RVAAP Report No. 132 (U.S. Army Toxic and Hazardous Materials Agency, 1978), each of
- the approximately 2,500 rounds fired on this range was accounted for.
- The furthest possible target distance for the 40mm grenades reported to have been fired at the former test
- range is 350 meters from the firing point (Army, 2003). The target impact area was well-defined with a
- berm that has since been removed. The firing point was situated at the eastern portion of the former test
- range. Remnants of the firing point location still remain and include a small wooden structure believed to
- be the former storage shed, gun mount foundation, and chronograph foundation (CB&I, 2015).
- The MRS is mostly forested with thick vegetation and ground cover. An approximate 1.5-acre open area
- with tall grasses remains at the eastern portion of the MRS, near the location of the former firing point. A
- steep slope exists to the west of the former impact area and slopes downward toward the Fuze and Booster
- Quarry ponds. There are no wetlands, waterways, or sensitive area at the MRS (CB&I, 2015). The MRS is
- shown in **Figure 3**.

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There have been no CERCLA enforcement actions related to the 40mm Firing Range MRS.

298 C. COMMUNITY PARTICIPATION

- Using the RVAAP community relations program, ARNG and the Ohio EPA have interacted with the public through news releases, public meetings, reading materials, and a website. Specific items of the community
- relations program include the following:
 - **Restoration Advisory Board:** A Restoration Advisory Board was established in 1996 to promote community involvement in DoD environmental cleanup activities and allow the public to review and discuss the progress with decision makers. Board meetings are generally held two to three times per year and are open to the public.
 - RVAAP Restoration Program Community Relations Plan: The Final Community Relations Plan for the Ravenna Army Ammunition Plant Restoration Program in Portage and Trumbull Counties, Ohio (U.S. Army Corps of Engineers [USACE], 2017) was prepared to establish processes to keep the public informed of activities being conducted as part of the RVAAP restoration program.
 - **RVAAP Restoration Program Website:** A website was established in 2004 for the RVAAP Restoration Program. The website provides information on the history of the RVAAP, areas of potential contamination, the cleanup program being implemented, current activities, and a schedule of upcoming events. This website is accessible to the public at www.rvaap.org.

- In accordance with Section 117(a) of CERCLA, Section 300.430(f)(2) of the National Oil and Hazardous
- 316 Substances Pollution Contingency Plan, and the Final U.S. Army Military Munitions Response Program
- Munitions Response, Remedial Investigation/Feasibility Study Guidance (Army, 2009) the ARNG released
- the NFA Proposed Plan for the 40mm Firing Range MRS (HGL, 2018b) in October 2018. The NFA
- Proposed Plan and other project-related documents were made available to the public as part of the
- Administrative Record maintained at CJAG and in the two Information Repositories at Reed Memorial
- Library in Ravenna, Ohio and Newton Falls Public Library in Newton Falls, Ohio. The notice of availability
- for the NFA Proposed Plan was sent to the Tribune Chronicle and Record Courier, as specified in the
- 323 Community Relations Plan (USACE, 2017). The notice of availability initiated the 30-day public comment
- period which began on October 25, 2018, and ended on December 1, 2018.
- The ARNG held a public meeting on November 1, 2018, at the Shearer Community Center, 9355 Newton
- Falls Road, Ravenna, Ohio 44266, to present the NFA Proposed Plan to the public. At this meeting,
- representatives of the ARNG provided information specific to the 40mm Firing Range MRS history,
- investigations, current site conditions, and proposed NFA. The representatives of the ARNG were also
- available to answer questions about the results of the MMRP-related investigations at the 40mm Firing
- Range MRS. Responses to the comments received at this meeting and during the public comment period are
- included in the Responsiveness Summary, which is Part III of this ROD.
- The ARNG considered the input received on the NFA Proposed Plan when determining that NFA for DoD
- military munitions and MC-related contamination is appropriate for the 40mm Firing Range MRS.

D. SCOPE AND ROLE OF OPERABLE UNIT OR RESPONSE ACTION

- The overall goal of the MMRP at RVAAP is to address risks to human health and the environment posed
- by DoD military munitions (i.e., unexploded ordnance (UXO) and discarded military munitions (DMM))
- and MC-related contamination. Investigations conducted by the ARNG have determined that no
- unacceptable risk is posed by DoD military munitions at the 40mm Firing Range MRS. The ARNG has
- also determined there is no potential source for MC-related contamination. For this reason, the ARNG has
- determined that there is no source material or impacted environmental media resulting from historical DoD
- military munitions-related activities at the MRS. The NFA determination is protective of the receptors
- associated with future land use at the 40mm Firing Range MRS. No other investigations are ongoing at the
- 343 MRS under the MMRP.

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344 E. SITE CHARACTERISTICS

- This section provides a brief overview of the 40mm Firing Range MRS that includes the physical
- characteristics, previous investigations completed under the MMRP, the nature and extent of contamination,
- and the most current conceptual site model (CSM).

E.1 Physical Characteristics

- The physical characteristics such as topography, geology, hydrogeology, and ecological characteristics that
- contributed to identifying potential transport pathways, receptors and exposure scenarios used to evaluate
- health and ecological risks are presented in the following subsections.

352 *E.1.1 Topography/Physiography*

- 353 CJAG is located within the Southern New York section of the Appalachian Plateaus physiographic province
- characterized by rolling hills, incised streams, and dendritic drainage patterns. Past glacial activity created
- bogs, lakes, and other wetland areas. The topography at the 40mm Firing Range MRS is relatively flat with
- topography ranging from 1,150 feet above mean sea level (amsl) at the eastern portion of the former range,
- where the former firing point was located, to 1,170 feet amsl at the central portion of the MRS where the

- impact area was located. The topography at the western portion of the MRS dips to an elevation low of
- approximately 1,130 feet amsl. There are no natural streams or ponds located within the MRS and the MRS
- is not located within a flood plain (CB&I, 2015).

361 *E.1.2 Soils and Geology*

- 362 CJAG is located atop Mississippian- and Pennsylvanian-age bedrock strata that are overlain by
- unconsolidated glacial deposits of varying thickness. The 40mm Firing Range MRS is located
- predominantly over the Homewood Sandstone Member. The eastern portion of the MRS is located over the
- Mercer Member. The bedrock elevation across the MRS is relatively flat at 1,150 feet amsl. Depth to
- bedrock ranges from just below ground surface at the west, south, and east portions of the MRS to
- approximately 25 feet below ground surface at the northern portion of the MRS.
- The native soil types at the 40mm Firing Range MRS include the Mitiwanga silt loam with 0 to 2 percent
- slopes and the Mahoning silt loam with 2 to 6 percent slopes. The western portion of the MRS abuts soils
- characterized as pits and quarries associated with the former Fuze and Booster Quarry (CB&I, 2015).

371 E.1.3 Surface Water

- 372 CJAG is located within the Ohio River Basin with a major surface stream running adjacent to the western
- portion of the facility flowing to the Mahoning River before joining the Michael J. Kirwan Reservoir. After
- leaving the reservoir, the west branch joins the Mahoning River east of the facility.
- 375 Surface water drainage at the central portion of the MRS generally flows to the east-southeast or to the west
- following the topography. The nearest surface water drainage features are the ponds associated with the
- Fuze and Booster Quarry to the west of the MRS. No wetlands, bogs, kettle lakes, or kames have been
- identified as being present within the MRS and the MRS is not located in a floodplain. (CB&I, 2015).

379 E.1.4 Hydrogeology

- Although groundwater recharge and discharge areas have not been delineated at CJAG, it is assumed that
- the extensive uplands areas at the facility, primarily located at the western portion of the facility, are
- regional recharge zones. Sand Creek, Hinkley Creek, and Eagle Creek are presumed to be major
- groundwater discharge areas. The 40mm Firing Range MRS is not situated in the upland areas that are
- 384 considered to be regional recharge zones.
- No groundwater monitoring wells have been specifically installed for the 40mm Firing Range MRS and
- the depth to the unconsolidated aquifer beneath the MRS is unknown. Based on the facility groundwater
- data collected for the Facility-Wide Groundwater Monitoring Program, the groundwater elevation at the
- MRS and the immediate vicinity appears to be at a potentiometric high of approximately 1,100 feet amsl.
- Therefore, the depth to groundwater at the 40mm Firing Range MRS may be as deep as 50 feet. The
- groundwater appears to flow in all directions from this higher formation (CB&I, 2015).

391 *E.1.5 Ecology*

- 392 CJAG is home to a range of vegetation and habitat resources. The vegetation community present at the
- 40mm Firing Range MRS is categorized as the "Dry Midsuccessional Cold-Deciduous Shrubland
- Alliance." This shrubland alliance is associated with relatively open areas characterized by shrub species
- covering more than 50 percent of the area, with relatively few large trees. This alliance often is found within
- previously disturbed areas, and is dominated by gray dogwood, northern arrow-wood, blackberry,
- 397 hawthorn, and multiflora rose.
- The Camp Ravenna Integrated Natural Resources Management Plan and U.S. Fish and Wildlife Service
- 399 (USFWS) Threatened and Endangered Species List indicate that one federally-listed threatened species, the

- Northern Long-eared Bat, is known to reside within CJAG (OHARNG, 2014) (USFWS, 2018). In
- additional, the Ohio Department of Natural Resources has identified several state-listed threatened and
- 402 endangered plant and animal species. Twelve state listed endangered species (1 mammal, 1 fish, 1 insect,
- 8 bird, and 1 plant species) and ten state listed threatened species (5 bird, 1 insect, 4 plants species) are
- included on the Rare Species List. No confirmed sightings of these species within the 40mm Firing Range
- 405 MRS have been reported and no critical habitats are present within the MRS (CB&I, 2015).

E.2 Site Investigations

- This section summarizes the CERCLA investigations that were completed at the 40mm Firing Range MRS
- under the MMRP.

409 E.2.1 Historical Records Review

- In 2007, the ARNG prepared a *Historical Records Review* (HRR) under the MMRP for RVAAP restoration
- program that included the 40mm Firing Range MRS. The HRR described the 40mm Firing Range MRS as
- an approximate 5.17-acre area surrounded by forest. A wooden structure believed to be the former storage
- shed, gun mount foundation, and chronograph foundation located at the firing point were the only remnants
- of the range, as the impact area berm had been removed. The HRR reported that facility personnel had
- identified UXO beyond the impact area, on the slope that leads down to the Fuze and Booster Quarry MRS.
- However, the HRR did not identify the type or disposition of the UXO reported by the facility personnel
- 417 (e^2M , 2007).

418 E.2.2 Site Inspection

- 419 In 2007, the ARNG completed an MMRP Site Inspection (SI) at the former RVAAP that included the
- 420 40mm Firing Range MRS. At the time of the SI, the size of the 40mm Firing Range MRS was approximately
- 421 5.17 acres that included an open field surrounded by forest. As part of the SI activities, a meandering path
- 422 magnetometer and metal detector assisted surveys for pieces of DoD military munitions were completed at
- the down-range target impact area, overshot area, and firing point portions at the MRS.
- 424 Various items were found on the ground surface during the SI at the target impact area and 100 feet beyond.
- The DoD military munitions were evaluated by UXO-qualified personnel, determined as safe, and
- considered to be MD. The MD consisted of aluminum 40mm grenade nose caps and casings. Although
- DoD military munitions that were suspected to be MEC had been reportedly previously observed by facility
- personnel beyond the impact area, the presence of MEC was not verified during the SI field activities. No
- DoD military munitions were observed at the firing point or in the area between the firing point and impact
- 430 area.
- 431 No samples for MC-related contamination were collected as part of the SI field activities.
- The impact and overshot areas where the MD was found encompassed 1.27 acres and became the revised
- 433 MRS following the SI (e²M, 2008). **Figure 4** presents the impact and overshot area at the MRS and the
- 434 results of the SI field work.

435 E.2.3 Remedial Investigation

- During planning for the RI field work, the previous findings of MD were evaluated and it was determined
- 437 that the area between the firing point and the furthest possible target distance for the 40mm grenades
- 438 reported to have been fired at the former 40mm Firing Range (350 meters from the firing point) required
- further investigation for DoD military munitions. The revised RI area was determined to be 8.55 acres that
- was inclusive of the 1.27-acre MRS identified during the SI. The combined area was referred to as the
- 441 "Investigation Area" in the Final RI Report (CB&I, 2015). Numerous fragments of DoD military munitions

- were encountered on the ground surface and in subsurface soils. The items were evaluated by UXO-
- qualified personnel, determined to be safe, and considered MD. The MD were associated with the 40mm
- 444 practice grenades that are known to have been discharged at the former firing range. No DoD military
- munitions confirmed to be MEC were identified at the 40mm Firing Range MRS during the RI field
- 446 activities.
- 447 Sampling for MC-related contamination was conducted during the RI at predetermined locations at the
- former impact area and 100 feet beyond as well as the location of the former firing point. In all, a total of
- three surface soil samples, not including quality control samples, were collected during the RI using the
- Incremental Sampling Methodology (ISM). Two ISM surface soil samples, each comprising 0.63 acres,
- were collected at the impact area and 100 feet beyond. A third ISM sample was collected at the 0.05-acre
- 452 firing point at the east end of the former firing range. All three ISM samples were collected at depths
- between 0 and 0.5 feet. The soil sample locations were based on locations where the MD was identified
- and where MC-related contamination associated with historical activities were expected. The MC-related
- contamination sampling locations are presented in **Figure 5**.
- The analytes detected during the RI sampling event consisted of nitroguanidine at the firing point and
- aluminum and lead at the former down range impact area. Nitroguanidine was detected at a very low
- concentration and is not an MC-related contaminant associated with the 40mm practice rounds fired at the
- former test range. Therefore, nitroguanidine was removed from further consideration as an MC-related
- contaminant at the MRS. The concentrations for both aluminum and lead were all below the background
- values and were not retained as MC-related contamination. Because no detected analytes were identified as
- MC-related contamination during the RI field activities, a Human Health Risk Assessment (HHRA) and
- 463 Ecological Risk Assessment (ERA) were not required for inclusion in the Final RI Report.
- Following the RI, the MRS boundary was expanded to encompass the 8.55-acre Investigation Area where
- the MD was found (CB&I, 2015). Figure 5 depicts the current MRS boundaries, the site features associated
- with the historical activities that occurred at the MRS, and the locations where MD were found during the
- 467 RI field work.

- To date, no DoD military munitions confirmed to be MEC have been found at the 40mm Firing Range
- 469 MRS. The RI fieldwork confirmed the results of previous investigations at the MRS; therefore, an explosive
- hazard is not present at the MRS. As a result, no MEC hazard assessment was required. The results of the
- 471 RI did not indicate the presence of MC-related contamination at the MRS. The MRS was assigned a
- 472 Munitions Response Site Prioritization Protocol (MRSPP) priority of 5 (CB&I, 2015). MRSPP scores
- range from 1 (highest priority sites) to 8, which is the lowest priority rating that a site can score.

E.2.4 Feasibility Study

- 475 Following the RI, a Feasibility Study (FS) was conducted to develop, evaluate, and perform a detailed
- analysis of potential remedial alternatives for the 40mm Firing Range MRS, as well as to Remedial Action
- Objectives and allow the DoD to select and propose an appropriate remedy. Based on further evaluation of
- the RI results, the project team concluded the 40mm Firing Range MRS be recommended for NFA. No
- explosive hazards were found during the RI; therefore, no MEC hazard assessment was required
- 480 (HGL, 2018a). The MRSPP tables were updated during the FS in accordance with the MRSPP Primer and
- the revised MRSPP priority is "No Longer Required".

E.2.5 Proposed Plan

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- The Proposed Plan was completed for 40mm Firing Range MRS by the ARNG in 2018. The Proposed Plan
- recommended NFA as no risks have been identified at the MRS. The overall recommendation of NFA
- under the MMRP was considered protective of receptors that may be present at the MRS (HGL, 2018b).

486 E.3 Nature and Extent of Contamination

- Data gathered by the ARNG during the SI and subsequent RI for the 40mm Firing Range MRS effectively
- characterized the nature and extent of DoD military munitions and MC-related contamination at the MRS.
- Based on the information presented in Part II, Sections A through E, it can be concluded that no further
- investigation is necessary at the MRS. As outlined in the RI Report, no evidence of intact DoD military
- munitions was identified at the MRS; there are no explosive hazards; and, no current sources for a release
- of MC-related contamination. In addition, ISM samples from the RI did not detect any past releases of MC-
- related contamination. Therefore, there is no explosive hazard or unacceptable risk due to MC-related
- contamination at the 40mm Firing Range MRS (CB&I, 2015).

E.4 Conceptual Site Model

- The CSM discussion includes sources of contamination, release mechanisms, migration pathways, and
- potential receptors identified for the 40mm Firing Range MRS in support of the HHRA and ERA.

E.4.1 Primary and Secondary Contaminant Sources and Release Mechanisms

- The 40mm Firing Range MRS is the location of a former 40mm firing range that operated between 1969
- and 1971. Prior to the SI, it was reported that facility personnel identified UXO beyond the impact point on
- the slope that leads down to the Fuze and Booster Quarry MRS (e²M, 2007); however, it should be noted
- that item was not identified, and the finding itself could not be confirmed. Parts and pieces of 40mm
- grenades were found on the ground surface during the SI at the target impact area and 100 feet beyond. The
- 504 items were confirmed to be MD and no MEC were found. Prior to the RI, MEC was still considered
- potentially present and a primary source of potential explosive hazards at the MRS. The associated
- secondary source of contamination was the potential release of MC-related contamination from any MEC
- on or just below the ground surface (e²M, 2008). The RI did not identify any DoD military munitions and
- only MD was found. The Final RI Report (CB&I, 2015) concluded that MC-related contamination was not
- detected at the MRS. The exposure pathways considered during the RI included the potential for human
- encounters with MEC on and just below the ground surface. Freeze/thaw cycling throughout the MRS and
- erosion at the steeper areas were evaluated since these physical processes have the potential to expose
- subsurface MEC (CB&I, 2015).

E.4.2 Contaminant Migration Pathways

- The lack of DoD military munitions identified by the ARNG during SI and RI field activities is evidence
- that no explosive hazard is present in the surface or subsurface soils at the 40mm Firing Range MRS. The
- RI concluded that all exposure pathways for surface and subsurface soils were incomplete (CB&I, 2015).

517 E.4.3 Potential Human Receptors and Ecological Receptors

- The likely human receptors identified for the 40mm Firing Range MRS include the Industrial Receptor as
- described in the FS. The NFA determination is protective of other potential future human receptors (such
- as residential receptors); however, there are no current plans for the MRS to change from an industrial land
- 521 use to a residential land use. There are no unacceptable risks to a potential future residential receptor from
- explosive hazards (HGL, 2018b).

- Environmental receptors (biota) identified for the MRS include earthworms, voles, shrews, robins, foxes,
- 524 and hawks (CB&I, 2015).

525 F. CURRENT AND POTENTIAL FUTURE SITE AND RESOURCE USES

- 526 Current activities at the 40mm Firing Range MRS include maintenance and natural resource management
- activities (CB&I, 2015). The future land use at the 40mm Firing Range MRS will include maintenance and
- 528 natural resource management activities. It will also include military training and most likely construction
- activities as part of military use (HGL, 2018a).

530 G. SUMMARY OF SITE RISKS

- The basis for NFA at the 40mm Firing Range MRS, including rationale for why a MEC Hazard Assessment
- 532 (HA), HHRA, and ERA were not required, are provided in the following subsections.

533 G.1 MEC Hazard Assessment

- The MEC HA methodology addresses human health and safety concerns associated with potential exposure
- to MEC at an MRS. The ARNG found no intact DoD military munitions or MEC at the 40mm Firing Range
- MRS during the MMRP SI or RI field activities, indicating that no source of explosive safety hazards is
- present. Therefore, the ARNG determined that the calculation of a MEC HA score was not warranted for
- the MRS (CB&I, 2015).

539 G.2 Human Health and Ecological Risk Assessment

- The purpose of the HHRA is to document whether chemical contaminants (MC) may pose a risk to current
- or future human receptors and to identify which, if any, MRS conditions need to be addressed further in the
- 542 CERCLA process. An ERA evaluates the potential for adverse effects posed to ecological receptors from
- the release of MC-related contamination at a MRS.
- Soil samples were collected during the RI for analysis at three locations where MC-related contamination
- was suspected based on the locations where MD was found (impact area) and where the firing of the
- munitions occurred (firing area). The analytical results indicated that no known or suspected risks
- associated with MC-related contamination exist at the MRS, including evaluation for the Unrestricted
- (Residential) Receptor (CB&I, 2015).

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H. DOCUMENTATION OF NO SIGNIFICANT CHANGE

- The NFA Proposed Plan (HGL, 2018b) for the 40mm Firing Range MRS was released for public comment
- on October 25, 2018. The NFA Proposed Plan (HGL, 2018b) recommended NFA under the MMRP and
- 552 pursuant to CERCLA requirements for the 40mm Firing Range MRS. After the public comment period, no
- significant changes regarding the selected remedy, as originally identified in the NFA Proposed Plan
- (HGL, 2018b), were necessary or appropriate.

PART III: RESPONSIVENESS SUMMARY FOR PUBLIC COMMENTS ON THE

PROPOSED PLAN FOR RVAAP-032-R-01 40MM FIRING RANGE MRS

557 A. Overview

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- In October 2018, the ARNG released the NFA Proposed Plan. On November 1, 2018, ARNG held a public
- meeting at the Shearer Community Center on 9355 Newton Falls Road, Ravenna, Ohio for the 40mm Firing
- Range MRS. ARNG, Ohio EPA, US EPA were present for the meeting, and approximately 20 members
- of the community attended the meeting. The 30-day public comment period was held from October 25,
- 562 2018 to December 1, 2018.

563 B. Summary of Stakeholder Issues and Lead Agency Responses

- No site-specific verbal comments were received during the public meeting. Members of the public were
- interested in the future use of CJAG as a whole. They had no questions or comments about the sites
- presented, or the NFA determination.

567 **B.1 Oral Comments from Public Meeting**

- No oral comments or questions were received from members of the public at the November 2018 public
- meeting.

570 **B.2 Written Comments from Public Meetings**

- No written comments or questions were received from members of the public at the November 2018 public
- 572 meeting.

573 **B.3 Telephone Comments from Public**

- No telephone comments were received from members of the public following publication of the news
- releases through the duration of the public comment period.

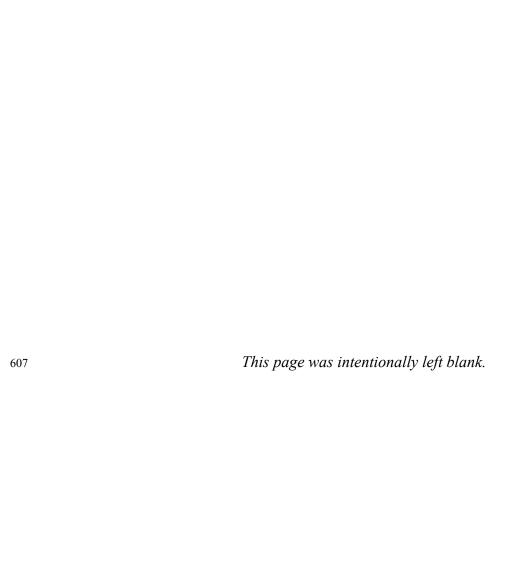
576 C. Technical and Legal Issues

577 There were no technical or legal issues raised during the public comment period.

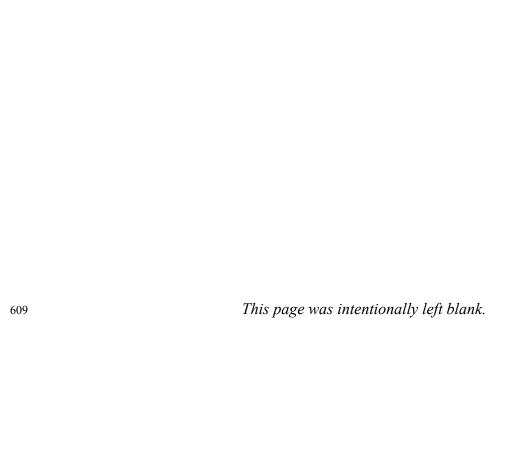


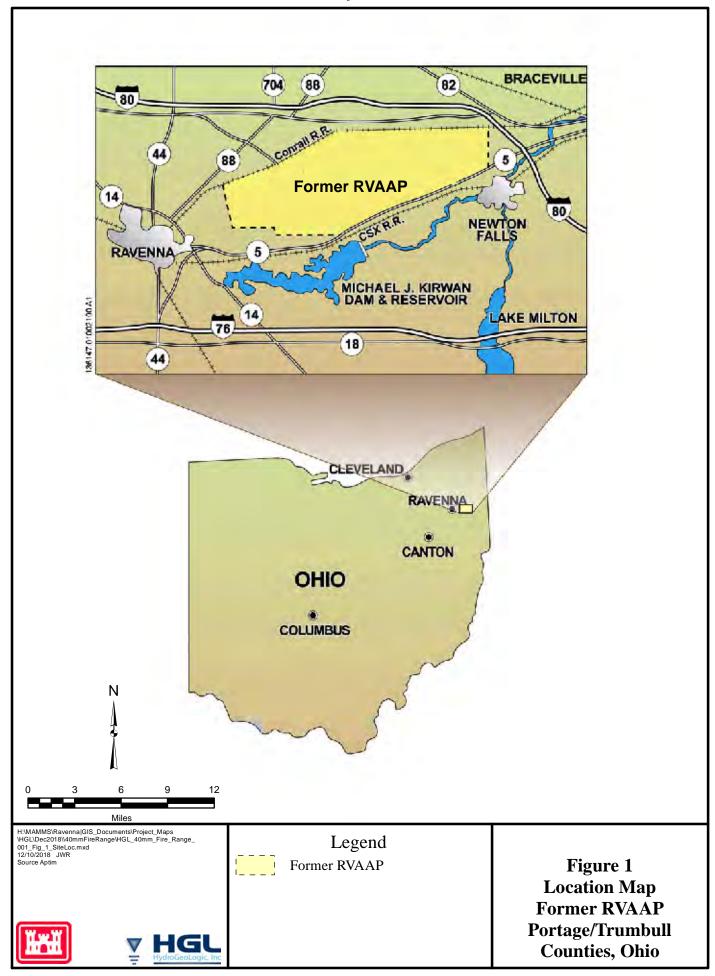
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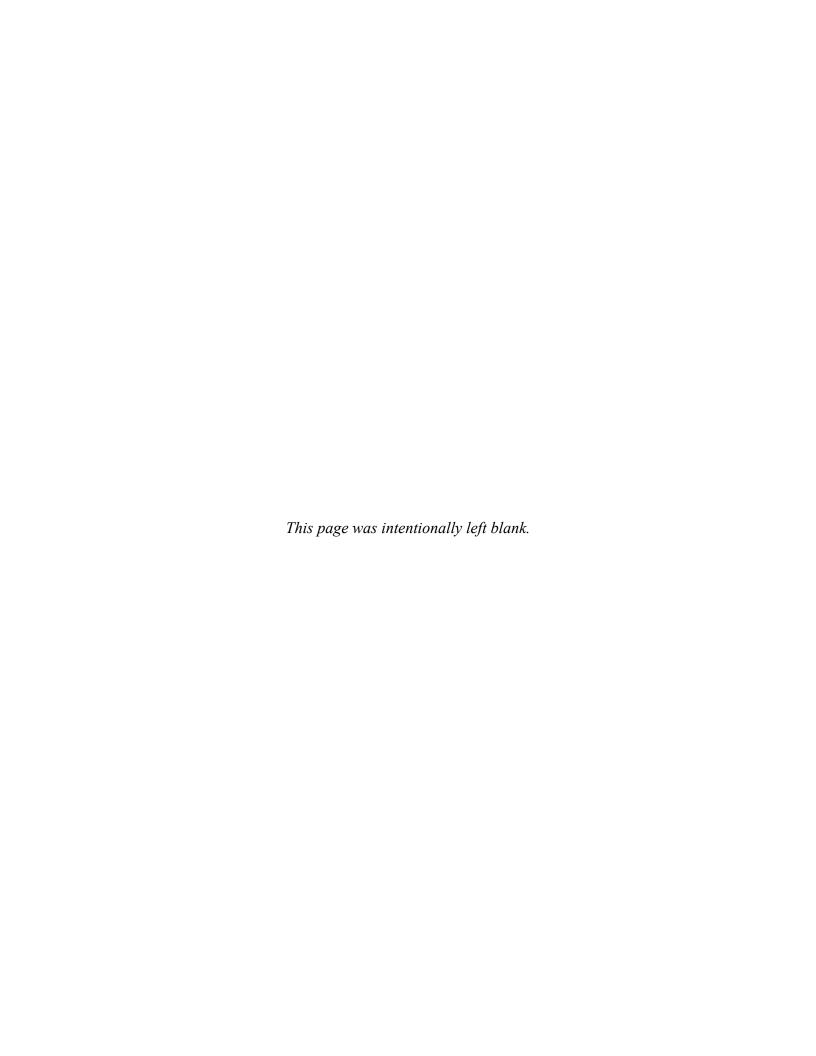
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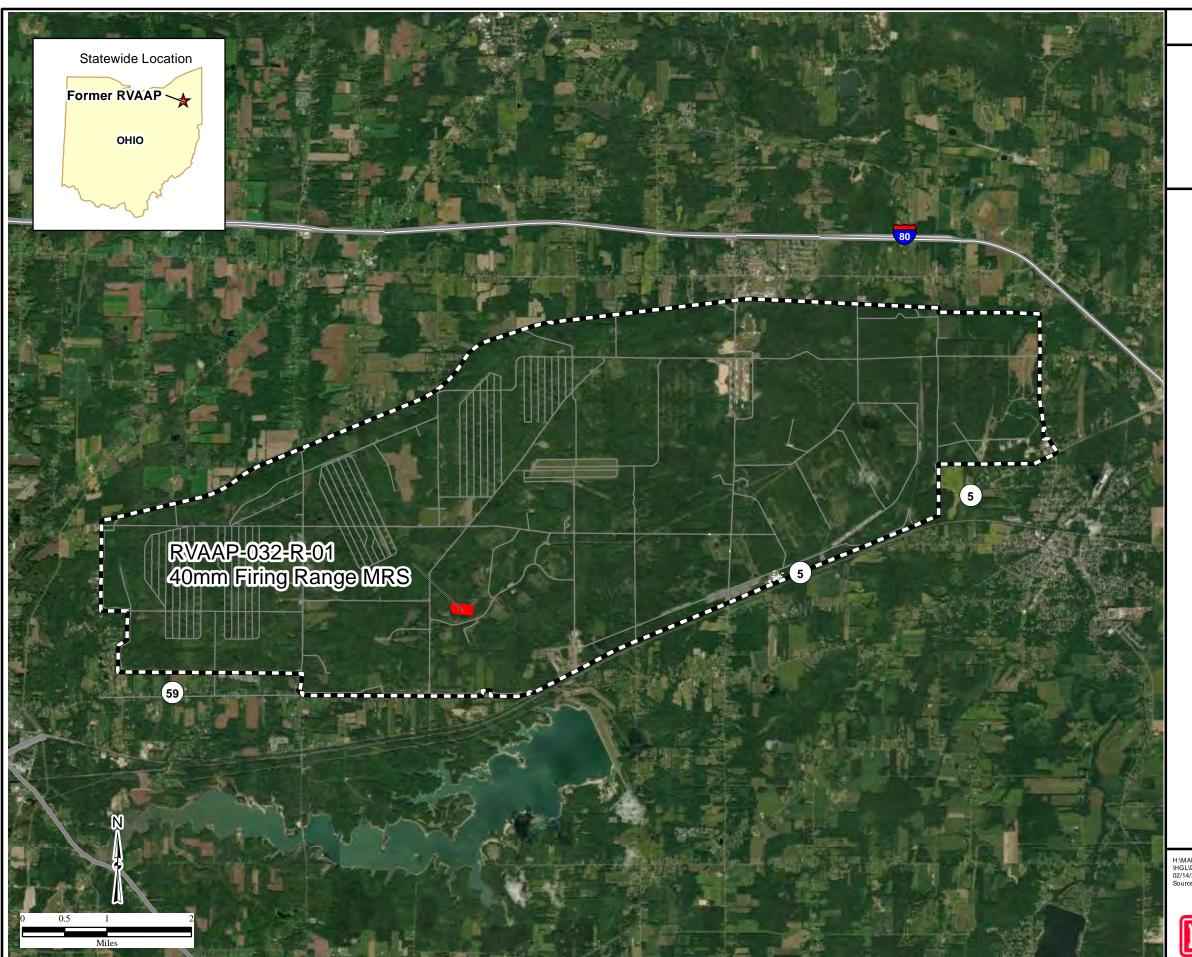


FIGURES









HGL—No Further Action Record of Decision Former RVAAP, Ohio

Figure 2
Location Map
40mm Firing Range MRS
Former RVAAP
Portage/Trumbull Counties, Ohio

Legend



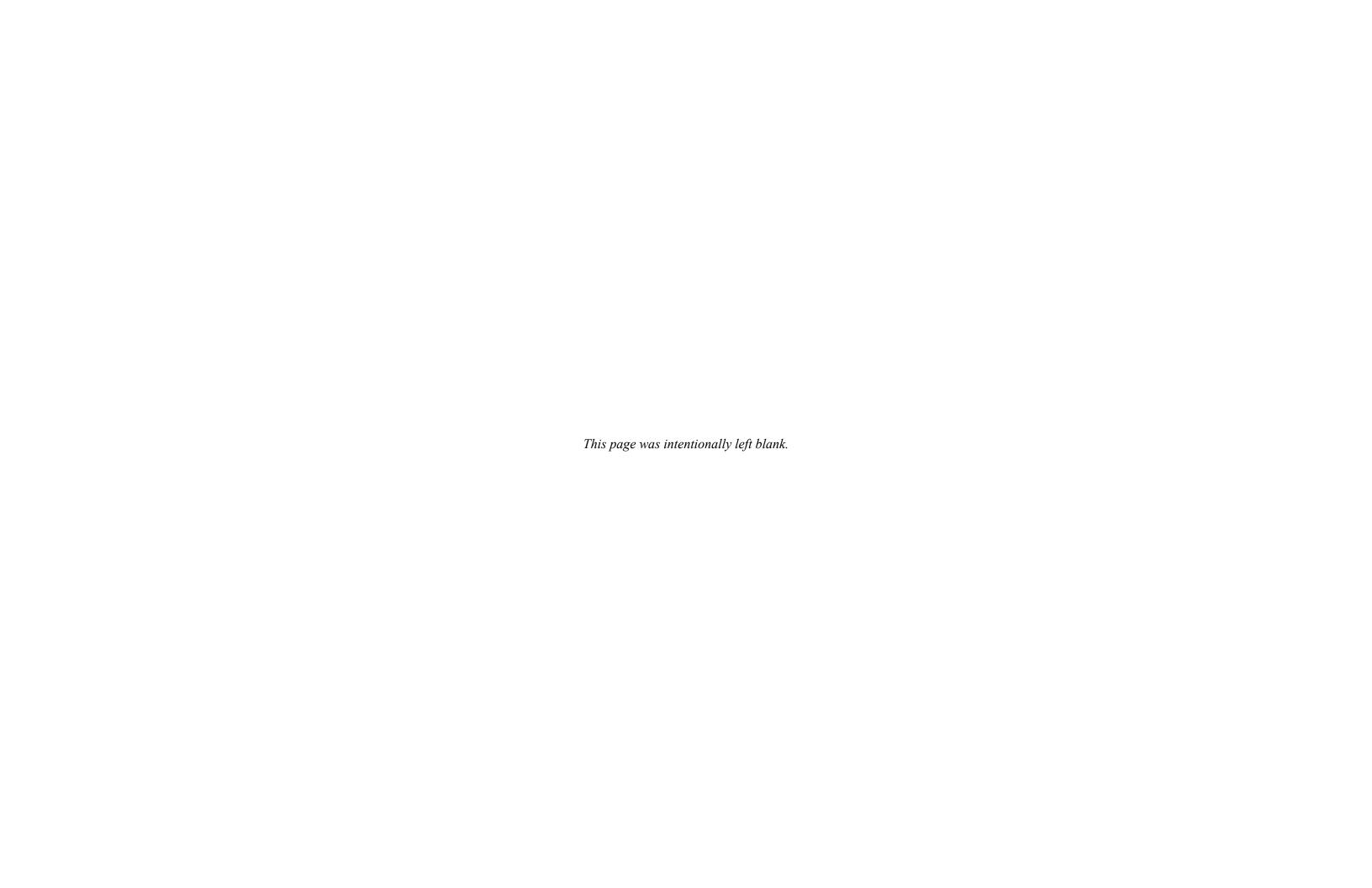
Road

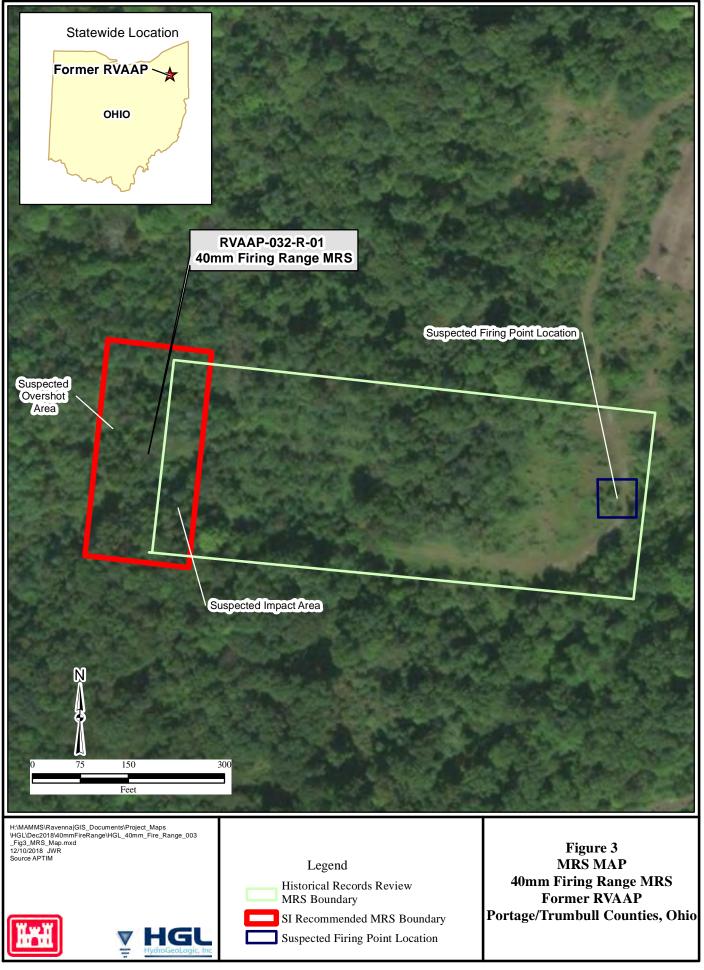
Notes: MRS=munitions response site RVAAP=Ravenna Army Ammuntion Plant

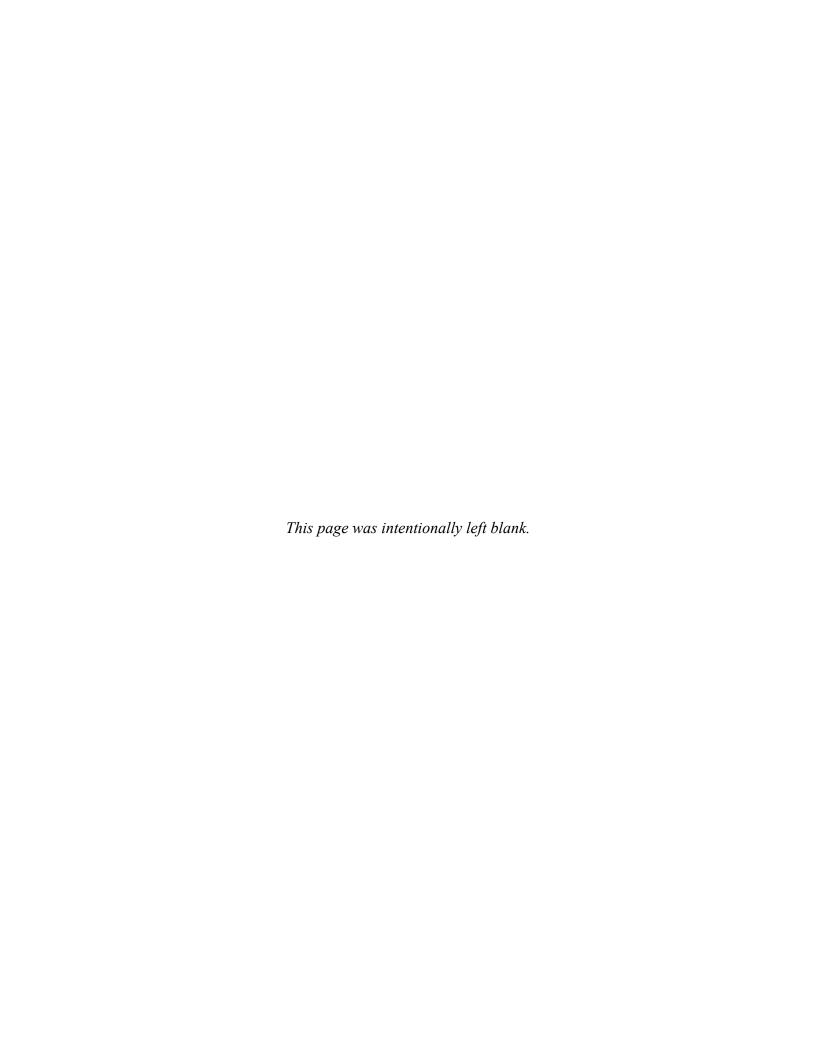
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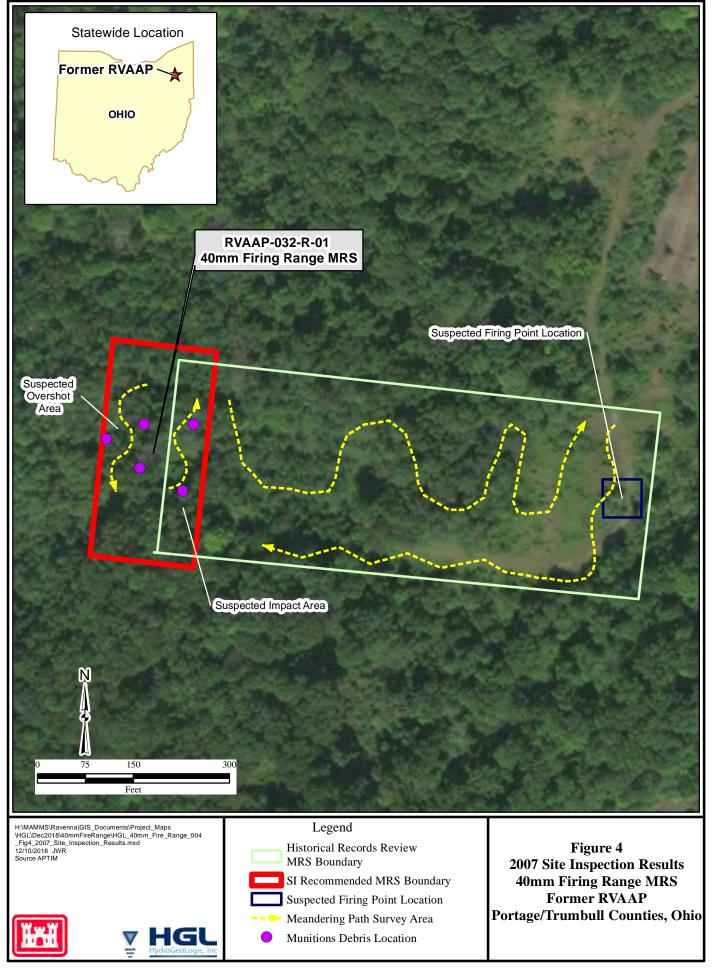


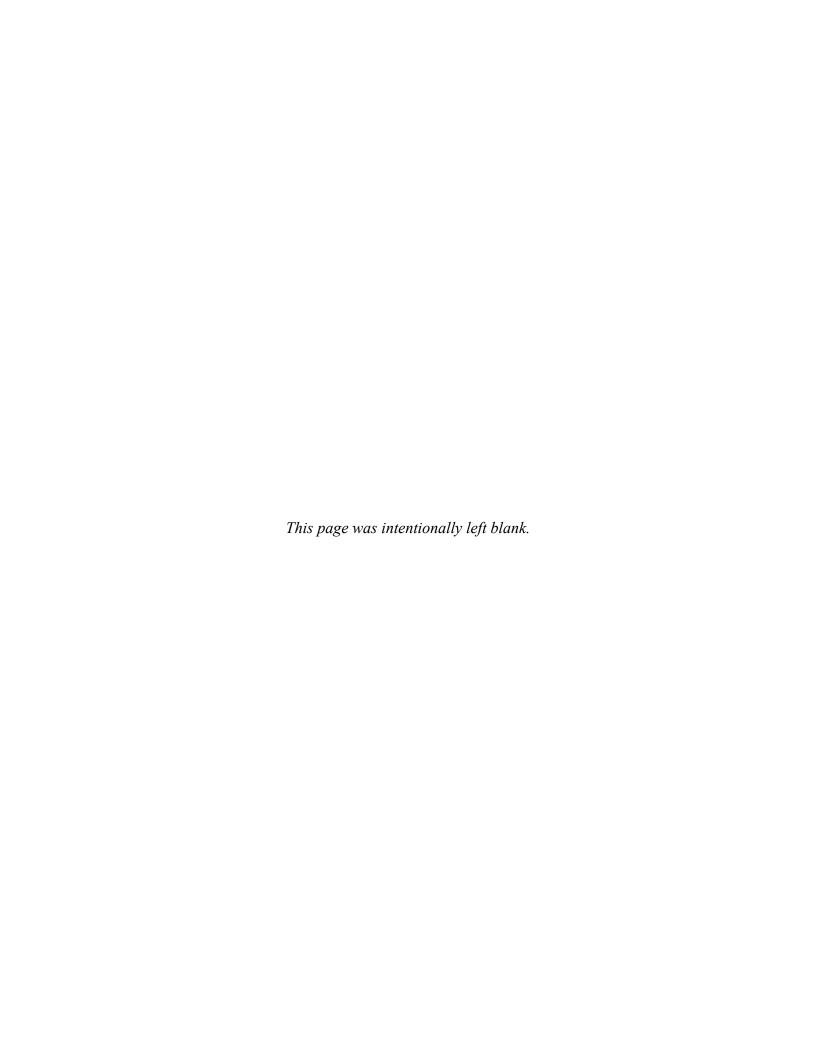


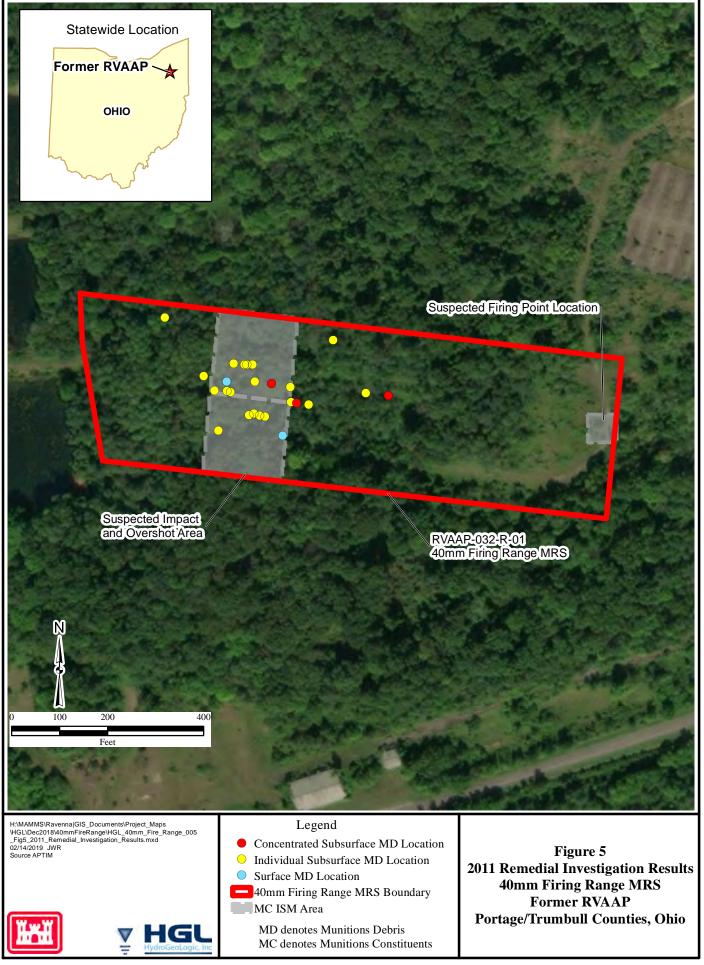


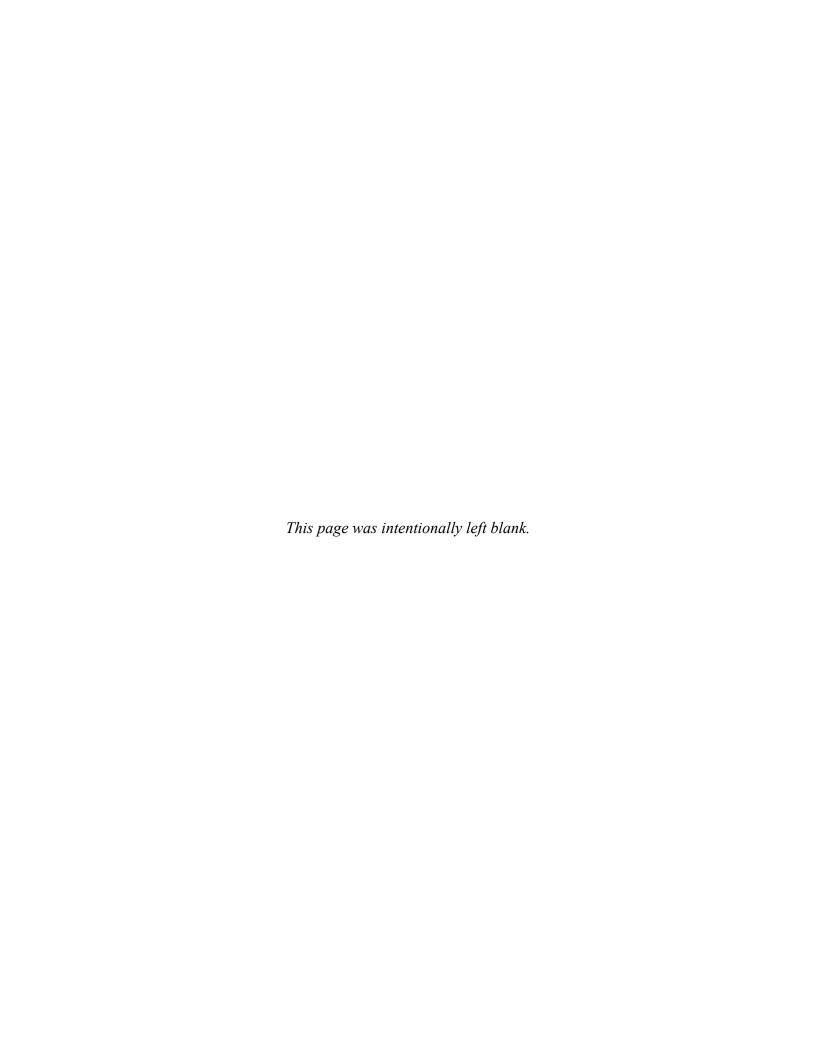












Appendix A Notice of Availability of the Proposed Plan This page was intentionally left blank.

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30 Record-Courier a newspaper printed and published in the city of Kent, and of General circulation in the County of Portage, State of Ohio, and personal knowledge of the facts herein stated and that the notice hereto annexed was Published in said newspapers for 2 insertions on the same day of the week from and after the 21st day of October, 2018 and that the fees charged are legal.

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Llizabeth McDaniel

Notary Public

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PUBLIC NOTICE

Camp Ravenna Joint Military Training Center Camp Ravenna Environmental Office 1438 State Route 534 SW – Newton Falls, OH 44444 614-336-6136

Public meeting to be held Thursday, November 1, 2018
for Army National Guard Release of Proposed Plans
for two Munitions Response Sites
at the Former Ravenna Army Ammunition Plant:
Fuze and Booster Quarry
40mm Firing Range

Ravenna - The Army National Guard, in consultation with the Ohio Environmental Protection Agency, submits for public review and comment two (2) Proposed Plans for two Munitions Response Sites at the former Ravenna Army Ammunition Plant (RVAAP) in Portage and Trumbull counties, Ohio.

The Fuze and Booster Quarry and 40mm Firing Range are Munitions Response Siles (MRSs) within the former RVAAP (now known as Camp Ravenna) in Portage and Trumbull Counties, Ohio. These MRSs are being addressed under the Military Munitions Response Program (MMRP) in accordance with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). The Proposed Plans present the current status and information regarding the MRSs. The Proposed Plans detail the recommendation for No Further Action at both MRSs and provide the rationale for these recommendations.

On Thursday November 1, 2018, a public meeting will be held at the Shearer Community Center (Paris Township Hall) at 9355 Newton Falls Road, Ravenna. Ohio 44266 beginning at 6:00 p.m., with an informal open house when technical staff will be available to answer questions. At 6:30 p.m., the Army National Guard will briefly describe the assessment of the MRSs, present the No Further Action recommendation, and then request verbal comments from the public. Written comments regarding this recommendation may be submitted to the Army National Guard during the 30-day comment period from October 25, 2018 to December 1, 2018, All written comments should be addressed to Camp Ravenna Environmental Office; 1438 State Route 534 SW, Newton Falls, OH 44444 or sent via email to Kathryn.s.tait.nfg@mail.mil.

In accordance with CERCLA, the No Further Action recommendation presented in the Proposed Plans was summarized and also presented in earlier remedial investigation and feasibility study reports. All reports are now available for public review at the RVAAP Restoration Program Information Repositories at the Reed Memorial Library (167 East Main Street, Ravenna) and the Newton Falls Public Library (204 South Canal Street, Newton Falls). The reports are also available online at www.rvaap.org.

The final remedy for the MRSs will be selected based, in part, on public comments. In coordination with Ohio Environmental Protection Agency, the Army National Guard will select a final remedy after reviewing and considering all public comments submitted during the 30-day public comment period from October 25, 2018 to December 1, 2018. The Army National Guard encourages the public to review and comment on the recommendation presented in this document.

For more information or to participate in the review, please visit the RVAAP Restoration Program website (www.rvaap.org) or call Kathryn Tait at 614-336-6136.

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