#### PUBLIC MEETING FOR RVAAP-001-R-01 RAMSDELL QUARRY LANDFILL AREA 2 SOUTH RVAAP-060-R-01 BLOCK D IGLOO RVAAP-002-R-01 ERIE BURNING GROUNDS MUNITIONS RESPONSE SITES

Contract W912DR-15-D-0016 Delivery Order 0001



US Army Corps of Engineers.

U.S. ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT 10 S. HOWARD STREET, ROOM 7000 BALTIMORE, MARYLAND 21201

> Prepared by: HydroGeoLogic, Inc. (HGL) 11107 Sunset Hills Road Suite 400 Reston, Virginia 20190

> > April 2019

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188			
The public reporting burden for this collection of information is estima maintaining the data needed, and completing and reviewing the collect suggestions for reducing the burden, to the Department of Defense, person shall be subject to any penalty for failing to comply with a collect <b>PLEASE DO NOT RETURN YOUR FORM TO THE</b>	ction of information. Send common Executive Service Directorate ( ction of information if it does not of	ents regarding this (0704-0188). Res display a currently	s burden estin pondents shou	nate or any other aspect of this coll Ild be aware that notwithstanding	lection of information, including	
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<b>14. ABSTRACT</b> This draft public meeting memorandum describes the relevant to the public meeting held November 1, 20 Environmental Protection Agency, to submit for pur munitions constituents at three munitions response RVAAP-001-R-01 Ramsdell Quarry Landfill MRS Burning Grounds MRS.	018. The Army National ablic review and comme sites at the former Rave	Guard condu ents three Prop enna Army A	acted the p posed Plan mmunition	ublic meeting, in consulta s for munitions and explo Plant in Portage and Tru	tion with the Ohio sives of concern and mbull counties, Ohio:	
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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 24th day of February, 2019 and that the fees charged are legal.

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Sworn to and subscribed before this 4th day of March, 2019. nuo

Elizabeth McDaniel Notary Public Commission Expires June 19, 2021

#### PUBLIC NOTICE

Camp James A. Garfield Joint Military Training Center Environmental Office 1438 State Route 534 SW – Newton Falls, OH 44444

614-336-6136 Public meeting to be held Wednesday, March 6, 2019 for Army National Guard Release of Proposed Plans for three Munitions Response Sites at the Former Ravenna Army Ammunition Plant: Ramsdell Quarry Landfill Area 2 (South) Erie Burning Grounds Block D Igloo

**Ravenna** – The Army National Guard, in consultation with the Ohio Environmental Protection Agency, submits for public review and comment three Proposed Plans for three Munitions Response Sites at the former Ravenna Army Ammunition Plant (RVAAP), now known as Camp James A. Garfield (CJAG), in Portage and Trumbull counties, Ohio.

The Ramsdell Quarry Landfill Area 2, Erie Burning Grounds, and Block D Igloo Munitions Response Sites (MRSs) within the former RVAAP 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 or other appropriate recommendation at the MRSs and provides the rationale for each recommendation.

On Wednesday, March 6, 2019, a public meeting will be held at the Charlestown Town Hall, 6368 Rock Spring 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 or other appropriate 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 March 1 to April 3, 2019. All written comments should be addressed to CJAG 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 or other appropriate recommendation presented in the Proposed Plans was summarized along with site details 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 March 1, 2019 to April 3, 2019. 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. RC, 2/24 & 3/3/2019, 12534680

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#054-2T Feb. 23 & March 2, 2019 #WOH0050361

#### PROOF OF PUBLICATION

STATE OF OHIO TRUMBULL COUNTY

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SS: CONNIE PACEK

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PUBLIC NOTICE Camp James A. Garfield Joint Military Training Center Environmental Office 1438 State Route 534 SW – Newton Falls, OH 44444 614-336-6136 Public meeting to be held Wednesday, March 6, 2019 for Army National Guard Release of Proposed Plans

for three Munitions Response Sites at the Former Ravenna Army Ammunition Plant: Ramsdell Quarry Landfill Area 2 (South) Erie Burning Grounds

#### Block D Igloo

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**Public Meeting Sign-In Sheet** 

#### PUBLIC SIGN-IN SHEET

#### Ravenna Army Ammunition Plant Restoration Program Proposed Plans Public Meeting March 6, 2019

Name	Phone Number	Email
PIZIE RICHENDERCI		
KEUIN SEDLALS		
Sue Oliver		
CRAIG COOMBS		
Nat Peters		
Nick Roope		
Kim Gross		
Dave Connolly		
Bob & Bank Stary		
RYAN SHACKELFARD		
Report Rod		
BRIGN Miller		
Katie Tait		
Bob Princic		
JOHN CROOP		

#### **PUBLIC SIGN-IN SHEET**

#### Ravenna Army Ammunition Plant Restoration Program Proposed Plans Public Meeting March 6, 2019

Name	Phone Number	Email
Bruce Lange Charlestown TWP Truster		
Chris Cerenelli WFMJ-TV21-Vongstom		
Wath Soluman		
Elwina Con Bernutt		
A. Richard Monteville		

Ramsdell Quarry Landfill Area 2 (South) Fact Sheet

No Further Action Proposed Plan for Ramsdell Quarry Landfill MRS Area 2 (South)

## Where is the Ramsdell Quarry Landfill MRS Area 2 (South)?

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The RVAAP-001-R-01 Ramsdell Quarry Landfill Munitions Response Site (MRS) Area 2 (South) is a 6.93 acre site located in the northeast portion of the former Ravenna Army Ammunition Plant (RVAAP), now known as Camp James A. Garfield. Camp James A. Garfield is located in east-central Portage County and southwestern Trumbull County, Ohio about 3 miles east-northeast of the city of Ravenna and 1-mile northwest of the city of Newton Falls.

#### How was this area used?

The Ramsdell Quarry Landfill MRS Area 2 (South) is located south of the separate site Ramsdell Quarry Landfill MRS Area 1 (North). The MRS is heavily wooded with thick ground vegetation and contains a small, inactive soil borrow pit which is now a small area of wetland. It was suspected that the MRS may have been used as a disposal area for DoD military munitions that were treated at the Ramsdell Quarry Landfill MRS Area 1 (North).

#### What is happening now at the Ramsdell Quarry Landfill MRS Area 2 (South)?

Between 2007 and 2015, the United States (U.S.) Army conducted investigative activities that included a site inspection (SI) and remedial investigation (RI) activities at the MRS under the Military Munitions Response Program (MMRP). The purpose of the investigations was to determine if any explosive safety hazards or risks due to munition constituents (MC)-related contamination associated with the historical activities that occurred at the MRS were present.

During the SI, instrument-aided visual surveys were performed. Munitions debris (MD) was found; however, two munitions debris (MD) items were encountered on the ground surface. The MD consisted of one inert 105-millimeter (mm) projectile and one inert 155mm projectile. No munitions and explosives of concern (MEC) were encountered at the MRS during the SI field work. Four soil samples were collected at the MRS and were analyzed for MC-related contamination. Based on the SI sampling results, further characterization for MC-related contamination was recommended in the RI.

collection, Geophysical data intrusive investigations, and environmental sampling were completed during the RI. All items recovered were inspected and classified and munitions debris (MD). No munitions and explosives of concern (MEC) were identified. The RI concluded that no known or suspected risk due to MC-related contamination exists at the MRS for either ecological or human receptors, including evaluation for the Unrestricted (Residential) Receptor. A summary of the previous investigations and findings from the most recent activities at the MRS are presented in the Final Remedial Investigation Report for RVAAP-001-R-01 Ramsdell Quarry Landfill MRS, Version 1.0, published in January 2015.

Based on further evaluation of the RI results, the Army concluded the Ramsdell Quarry Landfill MRS Area 2 (South) be recommended for No Further Action (NFA). Since the RI recommended conducting a Feasibility Study (FS), the FS was conducted to provide the necessary rationale to support and document the NFA determination. The NFA alternative is technically and administratively implementable and there are no costs. The NFA alternative is protective of human health and the environment because no explosive hazard or unacceptable risk due to MC-related contamination are present at the MRS.

No Further Action Proposed Plan for Ramsdell Quarry Landfill MRS Area 2 (South)

#### What is the Proposed Plan?

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The Proposed Plan is a document used to facilitate public involvement in the remedy selection process. The document presents the preliminary recommendations concerning how best to address contamination at the site, presents alternatives that were evaluated, and explains the reasons that the Preferred Alternative is recommended. In the case of the Ramsdell Quarry Landfill MRS Area 2 (South), the No Action alternative is protective of human health and the environment because no explosive hazard or unacceptable risk due to MC-related contamination is present at the MRS. The Proposed Plan meets the statutory requirements promulgated by the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). The recommendations provided in the Proposed Plan are not final, and the Army, in consultation with the Ohio EPA, is soliciting input to provide the public with an opportunity to participate in the recommended action selection process. The No Further Action Proposed Plan for RVAAP-001-R-01 Ramsdell Quarry Landfill MRS Area 2 (South), published in February 2019 is available for public comment.

### What is the recommended action?

Since there are no explosive safety hazards or risks from MC-related contamination, the Army, in consultation with the Ohio EPA, is recommending NFA for the Ramsdell Quarry Landfill MRS Area 2 (South).

#### How can the public participate?

The recommended action can change based on public comments received during a 30-day comment period. The Army encourages interested citizens to review documents related to the Ramsdell Quarry Landfill MRS Area 2 (South) and comment on the proposed action. During the 30-day comment period from March 1, 2019 to April 3, 2019, the public can read about the proposed action, ask questions, and make recommendations. The Proposed Plan is available online at <u>www.rvaap.org</u> and at the following information repositories:

#### **Reed Memorial Library**

167 East Main Street Ravenna, Ohio 44266 (330) 296-2827 Hours of operation: 9 a.m.–9 p.m. Monday–Thursday 9 a.m.–6 p.m. Friday 9 a.m.–5 p.m. Saturday 1 p.m.–5 p.m. Sunday

#### **Newton Falls Public Library**

204 South Canal Street Newton Falls, Ohio 44444 (330) 872-1282 Hours of operation: 9 a.m.–8 p.m. Monday–Thursday 9 a.m.–5 p.m. Friday and Saturday

## Where do I send my comments on the Proposed Plan?

Please send your comments, questions, or suggestions about the Proposed Plan to <u>kathryn.s.tait.nfg@mail.mil</u> or you can mail them directly to:

Ms. Kathryn Tait Camp James A. Garfield Environmental Office 1438 State Route 534 SW Newton Falls, Ohio 44444

The last day to postmark your responses to the Proposed Plan is April 3, 2019.

**Block D Igloo Fact Sheet** 

enna Army Ammunition Plant

**Proposed Plan for Block D Igloo MRS** 

#### Where is the Block D Igloo MRS?

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The RVAAP-060-R-01 Block D Igloo Munitions Response Site (MRS) was originally a 101.6-acre site located in the north-central portion of the former Ravenna Army Ammunition Plant (RVAAP), now known as Camp James A. Garfield. Camp James A. Garfield is located in east-central Portage County and southwestern Trumbull County, Ohio about 3 miles eastnortheast of the city of Ravenna and 1-mile northwest of the city of Newton Falls.

#### How was this area used?

The Block D Igloo MRS is the location of former Igloo 7-D-15. The 60-foot-long igloo was constructed of reinforced concrete with a steel door. The bunker was primarily earthen covered with the exception of the front of it where the door was located. The door location was designed to force any potential internal explosions toward the east. On March 24, 1943, the stored 2,516 clusters of M-41 20-pound (lb) fragmentation bombs exploded in Igloo 7-D-15 during loading into the bunker for storage. At the time of the incident, Igloo 7-D-15 was 95 percent full.

## What is happening now at the Block D Igloo MRS?

Between 2004 and 2015, the United States (U.S.) Army conducted investigative activities that included a site inspection (SI) and remedial investigation (RI) activities at the MRS under the Military Munitions Response Program (MMRP). The purpose of the investigations was to determine if explosive safety hazards or risks due to munitions constituents (MC)-related contamination were present due to DoD military munitions activities conducted at the MRS.

During the SI, instrument-aided visual surveys and MC sampling were performed. Additionally, the pre-SI MRS was evaluated and the MRS established as a Block D Igloo MRS acreage of approximately 622.24 acres. A portion that extended beyond the installation boundary and was considered separately as a transferred site, Block D Igloo-TD MRS. The Final SI Report recommended the MRS boundary be further revised to reduce the size to 340.2 acres. The SI Report recommended further characterization of the MRS with for explosive hazards and MC-related contamination.

As part of the RI evaluation of historical data, the Army prepared a boundary evaluation for the maximum fragmentation distance-horizontal associated with the M-41 20-lb fragmentation bombs that exploded at the igloo. The results of the evaluation further reduced the size of the MRS to 92.14 acres. The RI field activities identified 178 munitions debris (MD) items on the ground surface and 3,135 subsurface MD items at a maximum depth of 8-inches below ground surface (bgs). Five of the items were identified as munitions and explosives of concern (MEC) and the RI concluded there is an explosive hazard present at the MRS.

Sampling to evaluate MC-related contamination was also conducted during the RI field work. The Human Health and Ecological Risk Assessments concluded that the detected chemicals do not pose risks to human and ecological receptors at the MRS. Therefore, the RI concluded there is no MC-related contamination at the MRS. A summary of the previous investigations and findings from the most recent activities at the MRS are presented in the *Final Remedial Investigation Report for RVAAP-019-R-01 Landfill North of Winklepeck MRS and RVAAP-060-R-01 Block D Igloo MRS, Version 1.0*, published in March 2015.

An FS was prepared to conduct a detailed analysis of the alternatives appropriate for the MRS. The FS developed remedial action objectives, evaluated possible alternatives in detail, and provided a comparative analysis of those alternatives based on criteria outlined in the *National Oil and Hazardous Substances Pollution Contingency Plan.* The FS identified four possible alternatives to address potential explosives hazards associated with DoD military munitions at the Block D Igloo MRS. The alternatives consisted of 1) No Action, 2) Land Use Controls (LUCs), 3) Surface Removal and LUCs, and 4) Surface and Subsurface Removal.



#### What is the Proposed Plan?

The Proposed Plan is a document used to facilitate public involvement in the remedy selection process. The document presents the preliminary recommendations concerning how best to address contamination at the site, presents alternatives that were evaluated, and explains the reasons that the Preferred Alternative is recommended. In the case of the Block D Igloo MRS, the Surface and Subsurface Removal (Alternative 4 in the FS) is the Preferred Alternative. The Preferred Alternative satisfies the remedial action objectives by reducing the unacceptable hazards of DoD military munitions for the Industrial Receptor. Alternative 4 is a Comprehensive Environmental Response, Compensation, and Liability Act of 1980 preference unlimited since it attains use/unrestricted exposure, is protective of human health and the environment, and is applicable or relevant and appropriate requirement compliant. The recommendations provided in the Proposed Plan are not final, and the Army, in consultation with the Ohio EPA, is soliciting input to provide the public with an opportunity to participate in the recommended action selection process. The Final Proposed Plan for RVAAP-060-R-01 Block D Igloo MRS, published in February 2019 is available for public comment.

## What is the recommended action?

No risks from MC-related contamination are present at the MRS. As there are explosive safety hazards, the Army, in consultation with the Ohio EPA, is recommending Surface and Subsurface Removal for the Block D Igloo MRS.

#### How can the public participate?

The recommended action can change based on public comments received during a 30-day comment period. The Army encourages interested citizens to review documents related to the Block D Igloo MRS and comment on the proposed action. During the 30-day comment period from March 1, 2019 to April 3, 2019, the public can read about the proposed action, ask questions, and make recommendations. The Proposed Plan is available online at <u>www.rvaap.org</u> and at the following information repositories:

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The last day to postmark your responses to the Proposed Plan is April 3, 2019.

**Erie Burning Grounds Fact Sheet** 

Army Ammunition Plant No Further Action Proposed Plan for Erie Burning Grounds MRS

## Where is the Erie Burning Grounds MRS?

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The RVAAP-002-R-01 Erie Burning Grounds Munitions Response Site (MRS) is a 33.93-acre parcel located in the northeastern portion of the former Ravenna Army Ammunition Plant (RVAAP), now known as Camp James A. Garfield. Camp James A. Garfield is located in east-central Portage County and southwestern Trumbull County, Ohio about 3 miles eastnortheast of the city of Ravenna and 1-mile northwest of the city of Newton Falls.

#### How was this area used?

The Erie Burning Grounds MRS is the location of a former burning ground that operated between 1941 and 1951. The Erie Burning Grounds MRS received bulk, obsolete, and off-specification propellants; conventional explosives; rags, and large, explosive-contaminated items (railcars) to be thermally treated (by open burning). Open burn activities occurred in four areas (Burn Area A, Burn Area B, Burn Area C, and Burn Area D).

## What is happening now at the Erie Burning Grounds MRS?

Between 2007 and 2014, the United States (U.S.) Army conducted investigative activities that included a site inspection (SI) and remedial investigation (RI) activities at the MRS under the Military Munitions Response Program (MMRP). The purpose of the investigations was to determine if any explosive safety hazards or risks due to munitions constituents (MC)-related contamination associated with the historical activities that occurred at the MRS were present.

During the SI, instrument-aided visual surveys were performed. One possible munitions and explosives of concern (MEC) item was encountered at the MRS during the SI field work. No MC sampling was conducted at the MRS as characterization of possible contamination was being conducted under the Installation Restoration Program (IRP). The Final SI Report recommended further characterization of the entire MRS with respect to MEC and MC (pond sediment only) under the MMRP.

Geophysical collection. intrusive data investigations, and environmental sampling of wet sediment were completed during the RI. All items recovered were inspected and classified and munitions debris (MD). No munitions and explosives of concern (MEC) was identified during the RI and the RI Report concluded that the data collected met the required 95-percent confidence level that the potential presence of MEC at the MRS is statistically low. The Human Health and Ecological Risk Assessments in the RI concluded that the site related chemicals in surface water, wet sediment, and subsurface soil are not present at concentrations great enough to pose risks to human and ecological receptors at the MRS. Therefore, the RI concluded there are no identifiable hazards from MEC in soil and the MC in soil poses no risk to human or ecological receptors. A summary of the previous investigations and findings from the most recent activities at the MRS are presented in the Final Remedial Investigation Report for RVAAP-002-R-01 Erie Burning Grounds MRS, Version 1.0, published in August 2014.

Based on further evaluation of the RI results, the Army concluded the Erie Burning Grounds MRS be recommended for No Further Action (NFA). The Army also determined that, because the RI recommended conducting a FS, the FS be conducted to provide the necessary rationale to support and document the NFA determination. The FS performed a detailed analysis of the NFA alternative for the MRS to support NFA at the MRS. Army Ammunition Plant No Further Action Proposed Plan for Erie Burning Grounds MRS

#### What is the Proposed Plan?

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e

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The Proposed Plan is a document used to facilitate public involvement in the remedy selection process. The document presents the preliminary recommendations concerning how best to address contamination at the site, presents alternatives that were evaluated, and explains the reasons that the Preferred Alternative is recommended. In the case of the Erie Burning Grounds MRS, the No Action alternative is protective of human health and the environment because no explosive hazards or unacceptable risk due to MC-related contamination is present at the MRS. The Proposed Plan meets the statutory requirements promulgated by the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). The recommendations provided in the Proposed Plan are not final, and the Army, in consultation with the Ohio EPA, is soliciting input to provide the public with an opportunity to participate in the recommended action selection process. The No Further Action Proposed Plan for RVAAP-002-R-01 Erie Burning Grounds MRS, published in February 2019 is available for public comment.

### What is the recommended action?

Since there are no explosive safety hazards or risks from MC-related contamination, the Army, in consultation with the Ohio EPA, is recommending NFA for the Erie Burning Grounds MRS.

#### How can the public participate?

The recommended action can change based on public comments received during a 30-day comment period. The Army encourages interested citizens to review documents related to the Erie Burning Grounds MRS and comment on the proposed action. During the 30-day comment period from March 1, 2019 to April 3, 2019, the public can read about the proposed action, ask questions, and make recommendations. The Proposed Plan is available online at <u>www.rvaap.org</u> and at the following information repositories:

#### **Reed Memorial Library**

167 East Main Street Ravenna, Ohio 44266 (330) 296-2827 Hours of operation: 9 a.m.–9 p.m. Monday–Thursday 9 a.m.–6 p.m. Friday 9 a.m.–5 p.m. Saturday 1 p.m.–5 p.m. Sunday

Newton Falls Public Library

204 South Canal Street Newton Falls, Ohio 44444 (330) 872-1282 Hours of operation: 9 a.m.–8 p.m. Monday–Thursday 9 a.m.–5 p.m. Friday and Saturday

## Where do I send my comments on the Proposed Plan?

Please send your comments, questions, or suggestions about the Proposed Plan to <u>kathryn.s.tait.nfg@mail.mil</u> or you can mail them directly to:

Ms. Kathryn Tait Camp James A. Garfield Environmental Office 1438 State Route 534 SW Newton Falls, Ohio 44444

The last day to postmark your responses to the Proposed Plan is April 3, 2019.

**Slide Presentation** 

## PROPOSED PLANS FOR THREE MUNITIONS RESPONSE SITES

### RAMSDELL QUARRY LANDFILL MRS AREA 2 (SOUTH) ERIE BURNING GROUNDS BLOCK D IGLOO

Presented by: HydroGeoLogic, Inc. March 6, 2019

"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."





U.S.ARMY

File Name

# **Presentation Agenda**

- Summary of Military Munitions Response Program
- The presentation of each munitions response site (MRS) Proposed Plan will include the following:
  - Historical Operations and Investigations
  - Current Conditions
  - Remedial Investigation and Feasibility Study Results
  - Recommendations and Rationale
- Questions



2

## **Acronym Cheat Sheet**

AOC	Area of Concern
CERCLA	Comprehensive Environmental Response, Compensation and
	Liability Act
CJAG	Camp James A. Garfield Joint Military Training Center
DoD	Department of Defense
MC	munitions constituents
MD	munitions debris
MEC	munitions and explosives of concern
MMRP	Military Munitions Response Program
MPPEH	material potentially presenting an explosive hazard
MRS	munitions response site
NFA	No Further Action
RVAAP	Former Ravenna Army Ammunition Plant



## Understanding the MMRP

- The Military Munitions Response Program (MMRP) is a Department of Defense program
  - Follows the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), or Superfund, process to address sites
  - These munitions response sites (MRS) are suspected or known to contain munitions and explosives of concern (MEC) and/or munitions constituents (MC)
- MEC may remain on an MRS due to former munitions-related activities:
  - Munitions firing training and testing
  - Munitions manufacturing or maintenance
  - Munitions destruction and disposal
- MC may be generated by munitions-related activities



## The Stages of an MMRP Project





## Former Ravenna Army Ammunition Plant Location



## Ramsdell Quarry Landfill MRS Area 2 (South) (RVAAP-001-R-01)



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### RAMSDELL QUARRY LANDFILL MRS AREA 2 (SOUTH) LOCATION



MRS Location Map Ramsdell Quarry Landfill MRS Area 2 (South) Camp Ravenna/Former RVAAP Portage and Trumbull Counties, Ohio 8

Legend



Notes MRS denotes Munitions Response Site RVA4P denotes Ravenna Arm y Ammuntion Plant



File Name

# **Historical Background**

- The MRS is located within a former quarry that was initially mined for construction material such as gravel.
- The Ramsdell Quarry Landfill MRS (RVAAP-001-R-01) was originally 13.43 acres and consisted of two areas:
  - Area 1: 6.5 acres and located in an old quarry bottom where open burning/open demolition operations of munitions occurred
  - Area 2: 6.93 acres located south of Area 1 composed of a small inactive soil borrow pit and wooded area that may have been used as a disposal area for the munitions treated in Area 1
- Disposal activities of munitions treated at Area 1 (North) were suspected to have occurred at Area 2 (South).



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# **Historical Investigations**

#### • 2007, Historical Records Review

- Report indicated the potential presence of MEC.
- None of the DoD military munitions observed were evaluated to determine if they were MEC.

#### • 2008, Site Inspection

- Field investigation included a meandering path and planned transect magnetic surveys.
- No DoD military munitions confirmed to be MEC were found
- Two munitions debris (MD) items were encountered on the ground surface:
  - One inert 105-mm projectile
  - One inert 155-mm projectile
- Soil samples were collected and concentrations of lead and manganese were detected above background values.
- Further characterization for MC-related contamination only was recommended.
- 2015, Remedial Investigation
- 2018, Feasibility Study



### Ramsdell Quarry Landfill MRS Area 2 (South) Features



## Site Inspection Results





# **Current Conditions**

- Ramsdell Quarry Landfill MRS Area 2 (South) is approximately 6.93 acres
  - The MRS is heavily wooded with thick ground vegetation
  - Contains a small, inactive soil borrow pit to the east
  - Approximately 0.5-acres of planning-level wetlands are present
- Access to the facility is controlled, stakes bound the MRS to deter access and alert facility personnel that the area is off limits (due to ongoing investigation)
- No buildings or structures are present at the MRS



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# **Remedial Investigation**

### Field work conducted in two phases

- May through August 2011
- August 2013
- Activities included:
  - Digital geophysical mapping survey
  - Intrusive investigation of buried metallic items in terrestrial areas
  - Environmental Sampling for MC
  - Two incremental soil samples were collected



# **Remedial Investigation Results**

Legend





Munition Debris (MD) and Other Debris



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# **Remedial Investigation Results**

### • Geophysical Investigation:

- No MEC was encountered
- 187 MD items (fragments and parts) were encountered:
  - 20-pound (lb) AN-M41 series bomb
  - 155mm MK-1 series projectile
  - 250-lb AN-M57 series general purpose (GP) bomb
  - 500-lb AN-M64 series GP bomb
- MD were recovered between 0 and 24 inches bgs
- Most MD were encountered within the first 6 inches of soil
- No explosive hazards exist at the MRS
- MC-Related Contamination
  - ISM sample analysis detected several site related chemicals (SRCs)
  - Human Health and Ecological Risk Assessments were conducted
  - RI determined that no known or suspected risks associated with MCrelated contamination exist at the MRS
- Evaluation of remedial alternatives in a FS was recommended


## Feasibility Study

- The project team further evaluated the RI results and determined no identifiable risk from MEC or MC is present at the MRS.
- The No Further Action Alternative was evaluated using the nine criteria listed below





## Feasibility Study

There are no hazards associated with exposure to DoD military munitions (no MEC identified) and no potential for MC risks to human or environmental receptors at the MRS. The Army concluded the Ramsdell Quarry Landfill MRS Area 2 (South) be recommended for NFA.

The No Further Action Alternative is:

- Technically and administratively implementable
- No costs associated with implementation
- Protective of human health and the environment since no explosive hazards or unacceptable risks exist



### **Proposed Plan Recommendations**

The preferred remedy must be protective of the receptors associated with current and future land use.

Current and future receptors: Industrial receptors (full-time employees or career military personnel at CJAG)

Current and future land use: Maintenance, natural resources activities, environmental sampling and military training

The results of the Remedial Investigation fieldwork and Feasibility Study evaluation for the Ramsdell Quarry Landfill Area 2 (South) support the determination that NFA is the preferred remedy and is also protective of a potential future residential receptor.

Note: The NFA determination is protective of potential future human receptors (such as residential receptors). Though there are no current plans for the MRS to change from an industrial land use to a residential land use, there are no unacceptable risks to a potential future residential receptor from explosive hazards and no potential source of MC exists at the MRS.



# BLOCK D IGLOO MRS (RVAAP-060-R-01)



# **Historical Background**

- Block D Igloo MRS is 101.6-acres located in the northeast-central portion of the facility.
  - March 24, 1943 2,516 clusters of M-41 20-pound fragment bombs exploded
  - The explosion was reported to have been caused by rough handling and faulty design of a fuze.
- The MRS is mostly heavily wooded with thick vegetation and ground cover.
- Roads, fields, and wetlands are also located within the boundary.



## **MRS Location Map**





Location of Former Igloo 7-D-15

RVAAP-060-R-01 Block D Igloo MRS Boundary

Camp Ravenna Facility Boundary

- Road

Notes: MRS denotes Munitions Response Site RVAAP denotes Ravenna Army Ammuntion Plant



## **Historical Investigations**

#### • 2004, Archives Search Report

- The area surrounding the Block D Igloo potentially contained explosives ordnance.
- Recommended further investigation under the MMRP.

#### • 2007, Historical Records Review

- The detonation of bombs in Igloo 7-D-15 ("D" Block) caused multiple fatalities and was believed to have sent shrapnel and demolished material up to 2.9 miles away, off installation property.
  - Materials consisted of concrete fragments, parts of clothing, and an oil filter.
- An MRS boundary was established.

#### 2008, Site Inspection

- MEC surveys were conducted at four documented debris locations.
- Several subsurface anomalies were recorded but were attributed to possible remnants of the former concrete floor.
- No subsurface anomalies were detected within 100 feet surrounding the former igloo locations.
- Soil samples were collected to test for munitions constituents.
- 2015, Remedial Investigation
- 2018, Feasibility Study



### Block D Igloo MRS – Original Boundary <sup>24</sup>







# **Current Conditions**

- The Block D Igloo MRS is approximately 101.6 acres
  - The MRS is mostly heavily wooded with thick vegetation and ground cover.
  - Roads, fields, and wetlands are also located within the boundary.
- Access to the MRS is unrestricted
- Interim Controls currently in place include:
  - Signage
  - Stakes



# **Remedial Investigation**

- Site boundary reduced during RI planning based on the maximum distance a fragment from a M-41 20-lb bomb could travel
- Field work conducted in 2011
- Activities included:
  - Instrument-aided surface investigation
  - Seven "mag and dig" grids selected for intrusive investigation of buried metallic items
  - Environmental Sampling for MC
  - Three incremental soil samples were collected and two discrete soil samples were collected from beneath MEC







MRS Boundary at Conclusion of 2007 SI

RI Investigation Area (92.14 acres)

Actual Visual Transects (~53.9 ac./ 65.2 mi.)

Step-Out Transects

Muitions Debris Items (178 Items)

Instrument-Assisted Visual Survey Behind (West) Igloo

Stream



- Geophysical Investigation
  - 178 DoD military munitions and fragments were found on the ground surface.
  - All were MD items (no explosive hazard)
  - 3,140 subsurface DoD military munitions and fragments were encountered.
    - Maximum depth 8 inches below ground surface
    - 3,135 were MD items (no explosive hazard)
    - Five were munitions of explosive concern (MEC)



- MC-related contamination investigation:
  - Nitroguanidine was detected in 2 of 3 ISM locations
    - Low concentrations (below regulatory limits) and not associated with 20-lb cluster bombs
  - Antimony and iron were detected in the ISM samples
  - Human Health and Ecological Risk Assessments were conducted in the RI
  - RI Report indicated no risks due to MC-related contamination at the MRS
- Evaluation of remedial alternatives in a FS was recommended



## Feasibility Study

- The project team further evaluated the RI results and determined risk from MEC is present at the MRS.
- FS evaluated four alternatives 1) No Action, 2) Land Use Controls, 3) Surface Removal and Land Use Controls, and 4) Surface and Subsurface Removal





### Feasibility Study

Based on the evaluation of alternatives, the Army concluded surface and subsurface removal is preferred for:

- Reducing unacceptable hazards of MEC in surface and subsurface soils, and
- Protecting human health and the environment.



### **Proposed Plan Recommendations**

The preferred remedy must be protective of the receptors associated with current and future land use.

Current and future receptors: Industrial receptors (full-time employees or career military personnel at CJAG)

Current and future land use: Industrial land use

The results of the Remedial Investigation fieldwork and Feasibility Study evaluation for the Block D Igloo MRS support the determination that Surface and Subsurface removal of MEC is the preferred remedy.

Following completion of the response actions the Block D Igloo MRS can be used for the anticipated land use and will be protective of the Industrial Receptor or a potential future Residential Receptor (although not anticipated).

# Erie Burning Grounds MRS (RVAAP-002-R-01)



# **Historical Background**

- Erie Burning Grounds MRS is 33.93-acres located in the northeast portion of the facility.
  - Between 1941 and 1951 burning operations were conducted
  - Items received for open burning included bulk, obsolete, and off-specification propellants; conventional explosives; rags, and large, explosive-contaminated items
  - Residual ash remained at the MRS
- The MRS became inundated with water due to sedimentation, vegetation growth, and beaver damming
- The MRS is now occupied by wetland areas with intermittent open waters ranging from 3 to 5 feet deep



## **MRS Location Map**



## **Historical Investigations**

#### • 2007, Historical Records Review

- Identified four former burn areas as well as a former borrow area located in the western portion of the MRS
- Partially buried munitions-related items were reportedly observed across the MRS
- Recommended further characterization for MEC be performed at the MRS
- 2008, Site Inspection
  - Metal detector-assisted MEC surveys were performed throughout the dry areas of the MRS
    - Subsurface anomalies were identified and locations recorded
    - No intrusive investigation was conducted
    - One possible MEC item was identified partially buried
  - No environmental sampling was conducted
  - Recommended further investigation for MEC and MC (in pond sediment only)
- 2014, Remedial Investigation
- 2018, Feasibility Study





### Erie Burning Ground<sup>37</sup> MRS Features





# **Current Conditions**

- The Erie Burning Grounds MRS is approximately 33.93 acres
  - Inundated with surface water
  - Thick vegetation and ground cover in terrestrial areas
- No structures or paved roads exist within the MRS
- Access to the MRS is unrestricted
- Interim Controls currently in place include:
  - Signage
  - Stakes



# **Remedial Investigation**

- Field activities were conducted in several phases:
  - Geophysical data collection January and February 2012
  - Reacquisition and intrusive investigation April and May 2012
  - Environmental sampling May 2012
- Activities included:
  - Digital Geophysical Mapping
  - Intrusive investigations and tactile underwater investigations
  - Environmental sample collection:
    - Six wet sediment ISM samples were collected between sediment surface and 0.5 feet below sediment surface
    - Three surface water samples were collected
    - Two soil samples collected from trench bottoms where high densities of MD were recovered





#### Remedial Investigation Legend DGM Transect Fence Former Railroad Former Burn Area Exposed Metal (Historical) Former Borrow Area Former Chute Vegetation Area Island Steep Slope Surface Water (CB& I, 2014) MRS Installation Boundary Notes: DGM=digital geophysical mapping MRS=munitions response site RVAAP=Ravenna Army Ammuntion Plant





of Engineers.

### Remedial Investigation Results, North<sup>41</sup>

#### Legend

#### MD (no explosive hazard) Identified Fragments of 300lb GP, AN-M64A1 Visual Survey MD (no emlosive lazard) Identified Fragments of 5001b GP, AN-M64A1 Non Munitions Related Items Other Debris Identified Cultural Feature Metal Feature Quality Control Position (Nail) Tranch (No MEC or Munitions Debris) Fance Former Railroad Former Burn Area Esposed Metal (Historical) Former Borrow Area Former Chute High Anomaly Density Area Vegetation Area Island. Steep Slope Surface Water (CB& I, 2014) MRS Installation Boundary





## RI Results<sup>42</sup>, South

#### Legend MD (no emplosive hazard) Identified Fragments of 2001b GP AN-M64A1 Fragments from a Projectile, 75mm, HE, M309 Fragments from a Projectile, 75mm, HE, M48 Visual Survey MD (no emplosive hazard) Identified Ordnance Components Fragments of 500lb GP, AN-M64A1) Non Munitions Related Items Other Debris Identified Cultural Feature Motal Feature **Quality Control Position (Nail)** Trench (Munitions Debris Identified) Treach (No MEC or Munitions Debris) Fence Former Railroad Former Burn Area Exposed Metal (Historical) Former Borrow Area Former Clinite High Anomaly Density Area Vegetation Area Island Steep Slope Surface Water (CB&L 2014) MRS. Æ Installation Boundary

- Geophysical Investigation:
  - 1,076 individual anomalies of interest and several high anomaly density areas identified
    - 1,052 individual anomalies were investigated by hand-digging
      - Fragments recovered from anomaly locations were associated with the M48-series 75 millimeter (mm) high explosive projectile and M309-series 75mm projectile.
    - 14 high anomaly density trenches were investigated by mechanical excavation
      - Fragments recovered from trench locations were various parts associated with an AN-M64A1-series 500-lb General Purpose bomb.
  - No MEC and no explosive hazards were identified at the MRS



- MC-Related Contamination
  - ISM sample analysis detected several site related chemicals (SRCs)
  - Human Health and Ecological Risk Assessments were conducted
  - RI determined that no known or suspected risks due to MC-related contamination exist at the MRS

• Evaluation of remedial alternatives in a FS was recommended



## Feasibility Study

- The project team further evaluated the RI results and determined no identifiable risk from MEC or MC are present at the MRS.
- The No Further Action Alternative was evaluated using the nine criteria listed below



## Feasibility Study

There are no hazards associated with exposure to DoD military munitions (no MEC identified) and no potential for MC risks to human or environmental receptors at the MRS. The Army concluded the Erie Burning Grounds MRS be recommended for NFA.

#### The No Further Action Alternative is

- Technically and administratively implementable
- No costs associated with implementation
- Protective of human health and the environment since no explosive hazards or unacceptable risks exist



### **Proposed Plan Recommendations**

The preferred remedy must be protective of the receptors associated with current and future land use.

Current and future receptors: Industrial receptors (full-time employees or career military personnel at CJAG)

Current and future land use: Maintenance, natural resources management (beaver dam removal), and environmental sampling. The high-quality wetlands present within the MRS will preclude some types of access and military training at the MRS.

#### The results of the Remedial Investigation fieldwork and Feasibility Study evaluation for the Erie Burning Grounds MRS support the determination that NFA is the preferred remedy and is also protective of a potential future residential receptor.

Note: The NFA determination is protective of potential future human receptors (such as residential receptors). Though there are no current plans for the MRS to change from an industrial land use to a residential land use, there are no unacceptable risks to a potential future residential receptor from explosive hazards and no potential source of MC exists at the MRS.



### Questions?

Questions can be submitted several ways:

- In writing on the public comment forms provided for you
- By email (email address shown on the public comment forms) kathryn.s.tait.nfg@mail.mil
- By mail (mailing address shown on the public comment forms)

Ms. Kathryn Tait Camp James A. Garfield Environmental Office 1438 State Route 534 SW Newton Falls, Ohio 44444

• Asked in person at the public meeting

The public comment period began March 1, 2019 and continues through April 3, 2019.





HGL—No Further Action Proposed Plan Former RVAAP, Ohio Figure 4 2007 Site Investigation Results Ramsdell Quarry Landfill MRS Area 2 (South) Camp Ravenna/Former RVAAP Portage/Trumbull Counties, Ohio Legend MRS Boundary Sample Area for MC-Related Contamination Line Abreast Survey Transects Meanering Path Survey Transects Munition Debris Location

H:MAMMS\Ravenna|GIS\_Documents\Project\_Maps \HGL\Feb2018\RQLF\HHGL\_RVAAP\_RQLF\_004\_Fig4\_Area\_2\_Site\_Invest.mxd 02/09/2018 JWR Source APTIMI







HGL—No Further Action Proposed Plan Former RVAAP, Ohio

#### Figure 5 2011 Remedial Investigation Results Ramsdell Quarry Landfill MRS Area 2 (South) Camp Ravenna/Former RVAAP Portage/Trumbull Counties, Ohio

#### Legend

MRS Boundary Wetland Former Soil Borrow Pit DGM Grid Boundaries [....] Sample Areas for MC-Related Contamination - Former Railroad Munition Debris (MD) and Other Debris Bomb, 250 lb, General Purpose, AN-M57 ♣ Bomb, 500 lb, General Purpose, AN-M64 4<mark>></mark> Bomb, fragment, 20 lb, AN-M41 Projectile, 155mm, Shrapnel, MK 1 MD fragment, unknown 0 Other Debris Anomaly Type Unknown 

H:MAMMS\Ravenna|GIS\_Documents\Project\_Maps \HGL\Feb2018\RQLF\HHGL\_RVAAP\_RQLF\_005\_Fig5\_Area\_2\_RI\_Invest\_R2.mxd 02/12/2018 JWR Source APTIMI










Final December 2018



Final December 2018



# Figure 3 Site Features Erie Burning Grounds MRS Former RVAAP Portage and Trumbull Counties, Ohio

	Legend
	Culvert/Outlet
	Ditch
	Drainage Flow Direction
	Former Drainage Channel
×	Fence
-I - I-	Former Railroad
	Former Burn Area
	Exposed Metal (Historical)
	Former Borrow Area
	Former Chute
	Surface Water (OHARNG, 2014)
()	MRS
	Installation Boundary
Notes: ECB=erosion cor MRS=munitions	

MRS=munitions response site RVAAP=Ravenna Army Ammuntion Plant

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 (03)EBG\_SiteFeatures.mxd
 5/1/2018 JAR
 Source: HGL, CB&I, USACE, e<sup>2</sup>M, Ohio Army National Guard (OHARNG), 2014. Integrated Natural Resources Management Plan (INRMP) at the Camp Ravenna Joint Military Training Center, Portage and Trumbull Counties, Ohio. December. ArcGIS Online Imagery





# Figure 4

### Site Inspection Results Erie Burning Grounds MRS Former RVAAP Portage and Trumbull Counties, Ohio

#### Legend

- Suspected MEC
- Meandering Path Survey Transect
- Fence
- -I I Former Railroad
  - Former Burn Area
  - Exposed Metal (Historical)
  - Former Borrow Area
  - Former Chute
  - Surface Water (OHARNG, 2014)
  - MRS
  - Installation Boundary

Notes:

 $\times$ 

MEC=munitions and explosives of concern MRS=munitions response site RVAAP=Ravenna Army Ammuntion Plant

\\Gst-srv-01\\HGLGIS\\Ravenna\_AAP\\ErieBG\\PP\ (04)EBG\_SIResults.mxd 5/1/2018 JAR Source: HGL,CB&I, USACE, e<sup>2</sup>M, Ohio Army National Guard (OHARNG), 2014. Integrated Natural Resources Management Plan (INRMP) at the Camp Ravenna Joint Military Training Center, Portage and Trumbull Counties, Ohio. December: ArcGIS Online Imagery





Contract No. W912DR-15-D-0016 Delivery Order No. 0001



# Figure 5 2014 Remedial Investigation **Digital Geophysical Mapping** Transect Coverage

	Legend
	DGM Transect
×	Fence
-1 - 1-	Former Railroad
	Former Burn Area
	Exposed Metal (Historical)
	Former Borrow Area
	Former Chute
	Vegetation Area
	Island
	Steep Slope
	Surface Water (CB& I, 2014)
(	MRS
	Installation Boundary
MRS=munition	eophysical mapping is response site ina Army Ammuntion Plant
(05)EBG_DGMTransect. 11/8/2018 JAR Source: HGL,CB&I, US. RVAAP-002-R-0	4CE, e²M, CB&I, 2014. Final Remedial Investigation Report for I Erie Burning Grounds MRS, Version 1.0. Former Ravenna Army 1t, Portage and Trumbull Counties, Ohio. August.
Hri	



Contract No. W912DR-15-D-0016 Delivery Order No. 0001



Figure 6a
2014 Remedial Investigation
<b>Intrusive Investigation Results</b>
North Section
Erie Burning Grounds
Former <b>KVAAP</b>
Portage and Trumbull
Counties, Ohio

Legend

MD (no explosive hazard) Identified

÷ Fragments of 500lb GP, AN-M64A1<sup>1</sup>

Visual Survey MD (no explosive hazard) Identified

Fragments of 500lb GP, AN-M64A1<sup>1</sup>

Non Munitions Related Items

Other Debris Identified 

- Cultural Feature  $\triangle$
- Metal Feature 0

Quality Control Position (Nail) 

Trench (No MEC or Munitions Debris)

Fence

X—

-1 - 1 -

Former Railroad

Former Burn Area

Exposed Metal (Historical)

Former Borrow Area

Former Chute

High Anomaly Density Area

Vegetation Area

Island

Steep Slope

Surface Water (CB& I, 2014)

MRS

Installation Boundary





ALL	Figure 6b 2014 Remedial Investigation Intrusive Investigation Results South Section Erie Burning Grounds Former RVAAP		
	P	ortage and Trumbull Counties, Ohio	
212		Legend	
	MD (no expl	osive hazard) Identified	
		Fragments of 500lb GP, AN-M64A1 <sup>1</sup>	
	٠	Fragments from a Projectile, 75mm, HE, M309	
	•	Fragments from a Projectile,	
	Visual Survey	75mm, HE, M48 y MD (no explosive hazard) Identified	
	<u> </u>	Ordnance Components	
	$\approx$	Fragments of 500lb GP, AN-M64A1 <sup>1</sup>	
	Non Munition	ns Related Items	
	٠	Other Debris Identified	
		Cultural Feature	
-	•	Metal Feature Quality Control Position (Nail)	
		Trench (Munitions Debris Identified)	
		Trench (No MEC or Munitions Debris)	
	×	Fence	
	—I — I—	Former Railroad	
1		Former Burn Area	
A		Exposed Metal (Historical)	
2		Former Borrow Area	
		Former Chute	
×		High Anomaly Density Area	
		Vegetation Area	
E		Island	
		Steep Slope	
8		Surface Water (CB&I, 2014)	
		MRS	
		Installation Boundary	
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	RVAAP-002-R-01	CE, e <sup>2</sup> M, CB&I, 2014. Final Remedial Investigation Report for Erie Burning Grounds MRS, Version 1.0. Former Ravenna Army t, Portage and Trumbull Counties, Ohio. August. lagery	
ern nt	Ĭ	HGU HydroGeoLogic, Inc	

Contract No. W912DR-15-D-0016 Delivery Order No. 0001 **Public Meeting Transcripts** 

1	PUBLIC MEETING
2	
3	
4	IN RE: PROPOSED PLANS FOR THREE
5	MUNITIONS RESPONSE SITES
6	
7	RAMSDELL QUARRY LANDFILL MRS AREA 2 (SOUTH)
8	BLOCK D IGLOO
9	ERIE BURNING GROUNDS
10	
11	
12	
13	
14	
15	Presented by:
16	U.S. Army Corps of Engineers
17	March 6, 2019 6:30 p.m.
18	Location:
19	Charlestown Town Hall
20	6368 Rock Spring Road Ravenna, Ohio
21	
22	Grace M. Hilpert-Roach, RPR
23	
24	
25	

1 APPEARANCES:	age 2	Page 4
	1 response sites that are part of our deanup	
	2 program at the former Ravenna Army Ammunition	
	3 Plant.	
4 Senior Section Manager 2	4 MS. VAUGHN: Thank you.	
5 4835 University Square, Suite 15	5 Wekcome. Thank you for your time and	
6 Huntsville, Alabama 35816	6 attending and showing interest in the deanup	
7 (254) 228-5616	7 program at Ravenna. We really appreciate your	
8 kvaughn@hgl.com	8 time.	
9	9 We've got restrooms up here to the	
10 ALSO PRESENT:	10 left. Watch out for this electrical cord here.	
11 Timothy Leahy, APTIM	11 That should be just myself and Tim Leahy making	
12 Kevin Sedlak, Army National Guard Restoration	12 sure. We have about an hour to cover the	
13 Nicholas Roope, Ohio EPA	13 information on the three sites, and then we have	
14 Mark Johnson, Ohio EPA	14 a question and answer session, 30 minutes.	
15 Kim Gross, U.S. Army Corps of Engineers	15 You'll notice we also have a court	
16 Katie Tait, Ohio Army National Guard	16 reporter here tonight. That's part of the	
17	17 program that we're working under, for the public	
18	18 record, and to make this meeting contents	
19	19 available to any other members of the public, it	
20	20 is recorded and made available.	
21	21 So we'll ask you to please make a note	
22	22 of any questions that you might have. There's	
23	23 some blank public comment forms and pens at the	
24	24 back you can use to write down any questions,	
25	25 because if you want to present them tonight,	
	age 3	Page 5
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Page 6	1 sites in the CERCLA process are that each of	Page 8
2 record.	2 these phases – you'll hear Tim and I talk about	
3 We'll try not to – Tim and I will try	3 some of the site inspection results or the	
4 not to slip into acronyms usage so that we can	4 remedial investigation results. But for each of	
5 be more clear. But in case we do, I think I	5 these, there's also another set of requirements	
6 already spoke about a munitions response site or	6 and guidances that has been covered and we've	
7 an MRS. And then some of the other words that	7 been held to those standards for each of those	
8 we may use tonight would be MEC or whether	8 phases involving review, input from the	
9 something has an explosive hazard, the munitions	9 regulators and guidance and requirements for how	
10 and explosives of concern; or munitions debris,	10 each of those phases are completed.	
11 that is an item that's a fragment from a	11 Just the location of where we all are	
12 munition, but it has no explosive hazard; or	12 this evening: I think we all know where Camp	
13 munitions constituents, which would be some of	13 James A. Garfield is and where the facility	
14 the chemical components that may be present	14 exists in relation to the state of Ohio.	
15 after munitions have been in the environment.	15 Now I can turn it over to Mr. Leahy.	
16 An overview of the program that I	16 He'll be covering two of the MRS's and then I'll	
17 talked about, the Military Munitions Response	17 wrap it up with the third and final of the MRS's	
18 Program that we're working under, it's a	18 for tonight. Tim?	
19 Department of Defense program. We follow	19 MR. LEAHY: Thanks, Kimberly.	
20 CERCLA. You may have commonly heard that	20 As Kimberly said, my name is Tim Leahy	
21 referred to as the Superfund program. And it's	21 and I'm with APTIM. We're subcontractors to	
22 a process that we address all these sites,	22 HydroGeoLogic on this project. And I'm going to	
23 different phases for the investigations that are	23 talk about two of the munitions response sites	
24 done for the sites we're summarizing tonight.	24 this evening.	
25 So a munitions response site is a	25 The first one is the Ramsdell Quarry	
Bago 7		Bago 0
Page 7 1 location where we would have reason to believe	1 Landfill Munitions Response Site, or MRS, Area	Page 9
2 that munitions may have been used in the past	2 2, which is the southern of the two areas. You	
3 and a way in which those munitions may have been	3 can see the red dot in the middle there. That	
4 used. It may have been training. They may have	4 is where the site is within the boundary. The	
5 been testing the munitions. They may have been	5 dashed white and black line is the boundary of	
6 manufacturing them or doing maintenance, or even	6 Camp James A. Garfield or the Former Ravenna	
7 at the end of their life span, they may have	7 Army Ammunition Plant. And the site, Ramsdell	
8 been destroying them or disposing of them in	8 Quarry, is that red spot that's in the northeast	
9 some way.	9 part of the map.	
10 But a munitions response site is	10 The historical background on the site:	
11 anywhere that history shows that munitions may	11 The site is a former quarry that was used to	
12 have been used in one of those ways on that	12 mine for construction material like gravel. And	
13 site. MC, munitions constituents, then may also	13 it is two areas that total about 13.5 acres in	
	14 size. The first area, Area 1, is 6.5 acres and	
<ul> <li>14 be present in the soil or other media from –</li> <li>15 related to the munitions used.</li> </ul>		
	15 it's located in the quarry bottom and open	
	16 burning of munitions occurred there. Area 2 is	
17 Response Program project, that site, that	17 a little bit larger, it's almost seven acres in	
18 munitions response site, will go through all of	18 size. And it's located south of Area 1, and	
19 these phases of the CERCLA Superfund	19 there's a small inactive soil borrow pit there.	
20 investigation. We're at the public comment	1.11 And they their thet the new without the two re-	
	20 And they think that the munitions that were	
21 period. That is what tonight's meeting is for,	20 And they think that the multituons that were 21 burned at Area 1 in the north were disposed of	

- 21 period. That is what tonight's meeting is for, 22 is to put the proposed plans in front of the
- 23 public and gather comments from you guys. 24 So each – the only thing I would like
- 25 to point out for the phases of all of these

24 Now, some of the historical

23 this site.

22 in Area 2 in the south and that's what led to

25 investigations that have taken place while the

	je 10	Page 12
<ol> <li>site – since it's been turned into a site: The</li> <li>first one is called the historical records</li> </ol>	1 There was a remedial investigation and 2 the feesibility of the and I'll talk about them	
	2 the feasibility study, and I'll talk about them	
3 review, and that's about equivalent to the	<ul><li>3 in a couple more slides.</li><li>4 This slide here shows the outline of</li></ul>	
4 preliminary assessment phase. It's more of a		
5 records review type of document where they look	5 the actual landfill MRS Area 2 south. The two	
6 at historical records and see whether or not	6 circled areas are intermittent wetlands. They	
7 there's any evidence that there was MEC on the	7 sometimes are wet, swampy areas, but a lot of	
8 site.	8 times they're not. They are dry at times. And	
9 And then a report indicated that there	9 the borrow pit is up there. It's hard to see in	
10 was the potential presence of MEC munitions at	10 this, but there's a brown line around the left	
11 the site, but none of those munitions at the	11 of the two blue areas, and that's where the	
12 time were actually evaluated to see if they were	12 borrow pit itself was. There's a railbed that	
13 MEC. So they could have been inert or they	13 goes along the north side and the red line	
14 could have been live. There was no	14 itself is the outline of the site.	
15 determination made. And because these were	15 So the meandering path surveys and the	
16 historical reports, there was no way to go back	16 straight line surveys, you can see on this the	
17 and check at that point.	17 squiggly dash lines are the meandering path	
18 So based on that, the next step in the	18 surveys and they walk through the woods and they	
19 process is the site investigation, and that was	19 look to see what they can find there. And then	
20 done in 2008. And that's really sort of the	20 the straight line is up where the borrow pit	
21 first boots on the ground type of investigation	21 area was where they thought there may have been	
22 at the site.	22 some disposal. When there's straight lines like	
23 The field investigation at that site	23 that, they can see whether or not there's a	
24 included both a meandering path survey and a	24 pattern to the way things are disposed and	
25 planned transect magnetic survey. The	25 whether they missed anything in between those	
Pag	je 11	Page 13
1 meandering path – I'll show you both of these	1 lines. And that's the difference between the	
2 in a second on the next slide or in a couple of	2 two areas and the way they're investigated.	
3 slides – is basically just walking through the	3 The current conditions at the site, as	
4 woods with a metal detector and looking to see	4 I said earlier, it's almost seven acres, it's	
5 what you see on the surface or right below the	5 6.93. It's heavily wooded with thick ground	
6 leaf-litter surface there. The planned transect	6 vegetation, and there's a small borrow pit. And	
7 magnetic is more of a straight line, and that's	7 approximately half an acre is what they're	
8 usually used when they're looking for a specific	8 calling planning-level wetlands, which means	
9 target or a dump site or something like that.	9 that it is wet and it does retain water for part	
10 They did find a couple of items there	10 of the year but, it's not always wet.	
11 that were munitions debris. They found no MEC,	11 Access to the facility is controlled,	
12 no munitions that were actually explosively	12 and there are stakes that bound the MRS, the	
13 configured or able to go off, but there were a	13 munitions response site, so that people know	
14 couple of inert items. One was a 105-millimeter	14 there's something there and they're not supposed	
<ul><li>14 couple of inert items. One was a 105-millimeter</li><li>15 projectile and one was an inert 155-millimeter</li></ul>	<ul><li>14 there's something there and they're not supposed</li><li>15 to go there. And there are no buildings or</li></ul>	
-		
<ul><li>15 projectile and one was an inert 155-millimeter</li><li>16 projectile.</li></ul>	15 to go there. And there are no buildings or	
<ul><li>15 projectile and one was an inert 155-millimeter</li><li>16 projectile.</li><li>17 They also collected some soil samples</li></ul>	<ul><li>15 to go there. And there are no buildings or</li><li>16 structures present at the site.</li></ul>	
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Page 14		Page 16
1 metal objects.	1 feet of the ground surface, so nothing was	raye 10
2 And then they did intrusive	2 deeper than two feet, and most of them were	
3 investigations of some of the buried metallic	3 found within the first six inches. So based on	
4 objects that were found in those DGM surveys.	4 the results of the RI, there was no explosive	
5 They also did some more environmental sampling	5 hazard at the site. There's nothing that could	
6 for munitions constituents, which are the	6 go actually go boom anymore. All the explosives	
7 chemical parts of the bombs that may still be	7 are gone.	
8 present in soil or in other environmental media.	8 For the chemical contamination there	
9 They collected two what are called	9 may be related to past use, that's the	
10 incremental soil samples. And they take little	10 MC-related contamination, which is munitions	
11 bits of soil from a bunch of places and they	11 constituents, they did take those ISM, those	
12 homogenize them to get a better representation	12 incremental sampling method samples. And they	
13 of the overall chemical concentrations in soil.	13 took the results of those samples, so anything	
14 If you just get one grab sample, you might miss	14 that was detected in those samples was run	
15 something that would be picked up in one of	15 through what's called a Human Health Risk	
16 these ISM samples, so they give you a better	16 Assessment and Ecological Risk Assessment. And	
17 idea of overall contamination levels at the	17 there are two ways to look at the chemicals that	
18 site.	18 are in there. They look at both individually	
19 And this slide here, it's in your	19 and cumulatively, whether those chemicals could	
20 packet so you can look at it in more detail at	20 impact either people through various scenarios,	
21 home, but the thing to note about it is there's	21 including somebody who lived at the site, people	
22 a lot of dots on there and most of them are	22 who work at the site. They have different	
23 pink. And those pink dots are other debris, so	23 exposure scenarios with the number of days and	
24 those are metallic objects that are not	24 hours that people would be on-site.	
25 associated with munitions. It's just junk metal	25 And they ran all the chemical results	
Page 15		Page 17
1 out in the ground.	1 through those two assessments, and they	
2 There are also – and it might be hard	2 determined that there was no risk associated	
3 to see it here – smaller pink dots with	3 with the soil from munitions constituents at the	
4 circles, and those were locations where they	4 site.	
5 found MD, which is munitions debris. So it was	5 Just to be extra conservative, they did	
6 related to munitions, but it had no explosives	6 still recommend that this go through the FS	
7 and was not dangerous in that way.	7 process. And so they looked at different	
8 There were some other dots where they	8 remedial alternatives in a feasibility study,	
9 were able to identify what type of munitions	9 and that's the next step in the CERCLA process.	
10 debris was found. So the green dots are	10 Within the feasibility study, they look	
11 projectile fragments; the red and yellow and	11 at the RI results and they look at these	
12 blue crosses are various bomb fragments that	12 criteria here. There are three types of	
13 we're able to identify. So they're identified	13 criteria and nine overall criteria that any	
14 separately on the map. Again, they were all	14 action would have to meet to be considered a	
15 inert. They were all munitions debris.	15 feasible alternative for the site.	
16 So here's the results and sort of what	16 In this particular case, No Further	

17 Action is the alternative that was evaluated

18 because there was no explosive contamination at

19 the site and there was no chemical contamination

20 resulting from past munitions used at the site.

22 threshold criteria, the balancing criteria and

23 the modifying criteria.

24

21 That alternative was acceptable based on those

So, again, this is summarizing what I

25 just said. There are no hazards associated with

17 I just said. They did a geophysical

18 investigation. There was no munitions and

19 explosives of concern found; no configured MEC

20 items. There were 187 munitions debris, which

23 some of them were, different types of munitions

They were all found within the top two

21 are little fragments of metal from bombs and

22 things like that. And there's a list of what

24 and nothing that was explosive.

25

Dara (0)		Deet 00
Page 18 1 military munitions and there's no potential for	1 on March 24th, 1943, 2,516 clusters of M-41	Page 20
2 MC risks, munitions constituent risks, to humans	2 20-pound fragment bombs exploded at the site.	
3 or environmental receptors.	3 And they think it was caused by rough handling	
4 Based on that, the Army has concluded	4 of the items and the faulty fuse design. The	
5 this site be recommended for No Further Action,	5 site is heavily wooded now and there are some	
6 and that's what NFA is. It's technically and	6 roads, fields, and wetlands within the boundary.	
7 administratively implementable, this no action,	7 Okay. Again, the white and black dash	
8 so it's technically easy to do. There's no	8 line is the outline of Camp James A. Garfield,	
9 costs associated with it, and it is protective	9 and the red outline within that is the Block D	
10 of human health and the environment since there	10 Igloo MRS. The yellow dot is the actual former	
11 are no explosive hazards and no unacceptable	11 location of the igloo itself.	
12 risks to any receptors.	12 So, again, these are some of the	
13 The next stage is the Proposed Plan.	13 historical investigations, some of what I just	
14 And this is where the alternative that's	14 talked about for the other site. They did the	
15 developed in the feasibility study is presented	15 archives search report, which is another sort of	
16 to you, the public, and everybody else. And the	16 a historical records search but it's a more	
17 remedy must be protective of the receptors that	17 basic one.	
18 currently use the area and receptors that may	18 And based on that, they did another	
19 use the area in the future.	19 one, a historical records review in 2007. And	
20 The current and future land use for the	20 they determined that the detonation of the bombs	
21 site are both for industrial receptors; that	21 caused multiple fatalities and sent some of the	
22 would be in full-time employees or career	22 demolished material and shrapnel up to three	
23 military personnel at CJAG. They currently use	23 miles away from the site, 2.9 miles away. The	
24 it for maintenance, natural resources	24 stuff that was found that far away was concrete	
25 activities, environmental sampling and military	25 fragments, parts of clothing, and some filters.	
Page 19		Page 21
1 training. And that's not expected to change in	1 In the 2007 historical records review	Page 21
<ol> <li>training. And that's not expected to change in</li> <li>the future.</li> </ol>	2 they did establish an outline for it and $I^{\prime}I^{\prime}$	Page 21
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Page 22		Page 24
1 It's mostly heavily wooded. There are roads,	1 munitions debris, but five were MEC. So five	
2 fields, and wetlands located within it. There's	2 did have an explosive hazard at this site.	
3 unrestricted access, and there are signs and	3 The munitions constituent sampling	
4 stakes marking out where the site is.	4 detected nitroguanidine, which is a chemical	
5 So when they went to do the RI, one of	5 which can be associated with explosives. It was	
6 the things they realized is that the site	6 detected in two of the three ISM locations, but	
7 boundary was possibly too big. So what they	7 it was found at low concentrations, below	
8 wanted to do was go back and look and see how	8 regulatory limits, which are used to determine	
9 far these fragments could really have gone. So	9 whether or not there needs to be a cleanup.	
10 they looked at the distance that the fragments	10 Nitroguanidine is also not associated	
11 of the M-41 20-pound bombs could travel and did	11 with the explosives that were used within the	
12 some field work to confirm that in 2011.	12 20-pound cluster bombs. Antimony and iron were	
13 They did an instrument-aided surface	13 also detected in the samples.	
14 investigation, which is, again, the trained UXO	14 They did Human Health and Ecological	
15 technician walks around with a metal detector.	15 Risk Assessments at this site as well, just like	
16 And the UXO technician is somebody who's been	16 at the other site, and they ran all of these	
17 trained to find bombs in the ground.	17 chemicals that I was just talking about through	
18 They also did seven what we call "mag	18 that. And they did find that there was no risk	
19 and dig" grids, and they're similar. You walk	19 due to the MC-related contamination at the MRS.	
20 along with the metal detector, but wherever you	20 So that's just the chemical contamination.	
21 find something, where it rings off, they mark it	21 And they recommended evaluation of	
22 with a flag and then they go back later and dig	22 alternatives and an FS based on the results of	
23 it up to see what it actually was.	23 finding some explosively configured MEC items	
24 They did some environmental sampling	24 and no munitions constituents contamination.	
25 for munitions constituents. They collected	25 So the project team looked at the RI	
Page 23		Page 25
1 three incremental soil samples and then they	1 results and evaluated four atternatives in the	
2 collected two discrete soil samples, which the	2 feasibility study. The first one is no action;	
3 other ones I said were based on a bunch of lots	3 the second one is land use controls, which is	
4 put together into a single sample. These	4 similar to no action except that you formally	
5 discrete soil samples were just taken from one	5 document that there's something there, some	
6 area, and they were collected from those areas	6 reason why people can't go there or some other	
7 because they found potential MEC and they took	7 control on why certain activities can't take	

8 them from beneath them to see if anything had

9 leached out of that into the soil.

10 So this is the results of the RI 11 investigation. And it may just look like a big 12 yellow triangle from out there, but those are

13 all individual lines that people walked with the14 metal detectors. And it comes out to a little15 over 62 miles that they walked through the site16 looking for things.

All of those pink triangles that are on
there are munitions debris items that were found
on the surface. So they found 178 DOD military
munitions on the surface. No MEC was found on
the surface. Nothing explosive was found on the
surface.

When they went back and dug some of the
other items up, though, they did find 3,140
subsurface items. Of those, 3,135 were

11 subsurface and surface removal. So in that case12 they would take anything that was on the surface13 and remove it and then also look for things that

8 place; the third one is a surface removal and

10 still be things buried; and the fourth one is a

9 land use controls because there may potentially

14 were buried and remove them as well.

15 So based on the findings of some MEC in

16 the soil, the Army has concluded that the

17 surface and subsurface removal is the best -

18 the preferred alternative for this site. And it

19 would reduce unacceptable hazards associated

20 with the explosives, and it is protective of

21 human health and the environment.

- 22 Again, the stage we're at now is the
- 23 Proposed Plan, and that's where the remedy and

24 the feasibility study is presented. And that

25 has to be protective of current and future land

1 inspection did recommend that it move forward to 2 the next phase in the process, a remedial	
⊥ ∠ ine next phase in the process, a remedial	
3 investigation.	
10 and then the surface water that is present in	
11 north, south, and then east surface water. And	
12 we'll mention those again when we talk about	
13 remedial investigation results.	
14 So this slide kind of summarizes some	
15 of those features shown on the map. 34 acres,	
16 does have surface water, thick vegetation and	
17 ground cover, no structures or paved roads	
18 existing. There are some remnants of the	
19 previous structures that were present when the	
20 site was in use from 1941 to 1951. And those	
21 four burn areas.	
22 So that's where we were with the site	
23 conditions when we moved to the remedial	
24 investigation phase. So we have several slides	
25 here and several figures to summarize the	
.7	Page
3 investigation: Geophysical surveying, which Tim	
4 described, digital geophysical mapping or	
5 sometimes we'll abbreviate it DGM. And that's	
6 surveying and looking for buried metal.	
7 Now, following that, you may know that	
8 you have a map that shows you where the	
9 subsurface metal may be, but you don't know what	
10 it is. So you then move to an intrusive	
11 investigation. That's just a fancy word for	
12 literally digging it up to see what it is. So	
13 we collected that geophysical data. That data	
14 was evaluated. There was then location of those	
15 places and then digging them up for the	
16 intrusive and then the environmental sampling	
17 for munitions constituents.	
18 And that sampling included six	
10	
22 surface water samples, and then soil samples	
23 from trench bottoms. And I'll describe the	
<ul><li>23 from trench bottoms. And I'll describe the</li><li>24 trenching and why it was done also in here in a</li></ul>	
	<ul> <li>So the current conditions, where are we</li> <li>now when the remedial investigation data began</li> <li>to be collected. You heard me speak of the</li> <li>burning areas, the four burned areas. So I</li> <li>wanted to point those out, burn area A, B, C,</li> <li>and D. D is kind of a linear L-shaped feature,</li> <li>and then the surface water that is present in</li> <li>north, south, and then east surface water. And</li> <li>we'll mention those again when we talk about</li> <li>remedial investigation results.</li> <li>So this slide kind of summarizes some</li> <li>of those features shown on the map. 34 acres,</li> <li>does have surface water, thick vegetation and</li> <li>ground cover, no structures or paved roads</li> <li>existing. There are some remnants of the</li> <li>previous structures that were present when the</li> <li>site was in use from 1941 to 1951. And those</li> <li>four burn areas.</li> <li>So that's where we were with the site</li> <li>conditions when we moved to the remedial</li> <li>investigation phase. So we have several slides</li> <li>here and several figures to summarize the</li> </ul> 77 <ol> <li>remedial investigation data collected.</li> <li>There are several phases to that</li> <li>investigation: Geophysical mapping or</li> <li>sometimes we'll abbreviate it DGM. And that's</li> <li>surveying and looking for buried metal.</li> <li>Now, following that, you may know that</li> <li>you have a map that shows you where the</li> <li>subsurface metal may be, but you don't know what</li> <li>it is. So you then move to an intrusive</li> <li>investigation. That's just a fancy word for</li> <li>literally digging it up to see what it is. So</li> <li>we collected that geophysical data. That data</li> <li>was evaluated. There was then location of those</li> <li>places and then digging them up for the</li> <li>intrusive and then the environmental sampling</li> <li>for munitions constituents.</li> <li>And that sampling included six</li> <li>incremental sampling methodology samples. I<!--</td--></li></ol>

1		age 30	1 This is the porthern portion of the	Page 32
1	So we have three slides coming up that		1 This is the northern portion of the	
	are all maps. These maps are at the back of the		2 site, just to help it show up better. Moving to	
	slide presentation, the very last three pages,		3 the southern portion on the next slide, you'll	
	if you can't see them as well as I would like up		4 see there were – out of the 14 trenches placed,	
-	here.		5 there were four that had, in this color here,	
6	So the first map has a lot of pink		6 the sort of creamy brown color, that did have	
	parallel lines showing. The take-away for this		7 some munitions debris in the trench. But the	
	one, before we remove these pink parallel lines		8 remainder of the trenches again were all blue.	
	so that you can see other results, are these are		9 The pink were other debris not related to	
	the geophysical surveying transect. So you can		10 munitions. The green crosses were some	
	see that they do cover the site, you know,		11 fragments of that general purpose bomb there,	
	pretty much completely and are parallel.		12 but they were not explosively configured.	
13	The intent of that is to – it's		13 So that's a lot of data to throw at you	
14	intentional; it's designed to allow us to		14 on three maps, but I did want to make sure that	
15	identify where any concentrated areas of buried		15 the take-aways were we had a full picture of the	
16	metal may be. And you can actually see that in		16 site with the geophysical surveying of where the	
17	the data once it's processed and evaluated.		17 metal might be, and then we had two methods in	
18	So the next two figures, we're going to		18 which we went in and then dug up those buried	
19	remove those survey transect lines so we can		19 metal to see what it was with the trenching and	
20	then see the results of what was dug up when we		20 with the single-point digging.	
21	did the intrusive investigation.		21 And then the last thing to mention were	
22	So two types of digging were done. In		22 the different types of sampling done. Again,	
23	areas where we had a lot of concentrated buried		23 there was wet sediment sampling done in the	
24	metal, we went ahead and put in trenches,		24 areas of these basins, three in the north	
25	actually excavated out a trench to see what was	:	25 surface water basin, two in the south, and one	
		age 31		Page 33
1	buried in the subsurface.		1 on the east. And then there was also a sampling	
2	So where those high concentrations of		2 done of the surface water itself and at the	
	buried metal were, we put in 14 trenches. In		3 trench bottoms in some of those trenches that	
4	other places where single anomalies were able to		4 were placed.	
5	be dug, we did point digging. And you can see		5 Now, we have a text slide kind of	
6	if they are pink, it was other metal debris; it		6 summarizing everything that was presented in the	
7	did not have an explosive – it wasn't munitions			
8	سماحة مراجة مال الأسماعة معتقلة أعطامه المنابع		7 figures just giving the results. So, again,	
Ť	related at all. And then if it is the blue		<ul><li>7 figures just giving the results. So, again,</li><li>8 just to again mention that that geophysical</li></ul>	
-	related at all. And then it it is the blue cross color, there were munitions debris, but no			
9			8 just to again mention that that geophysical	
9 10	cross color, there were munitions debris, but no		<ul><li>8 just to again mention that that geophysical</li><li>9 surveying did identify those points or</li></ul>	
9 10	cross color, there were munitions debris, but no MEC, no munitions or explosives of concern were		<ul> <li>8 just to again mention that that geophysical</li> <li>9 surveying did identify those points or</li> <li>10 concentrated areas where we knew there was</li> </ul>	
9 10 11 12	cross color, there were munitions debris, but no MEC, no munitions or explosives of concern were ever found, so nothing with an explosive hazard.		<ul> <li>8 just to again mention that that geophysical</li> <li>9 surveying did identify those points or</li> <li>10 concentrated areas where we knew there was</li> <li>11 buried metal.</li> </ul>	
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9 10 11 12 13 14 15	cross color, there were munitions debris, but no MEC, no munitions or explosives of concern were ever found, so nothing with an explosive hazard. In the burned areas and in the structures and remnants, kind of, of the prior use of the site, which is logical, it's where		<ul> <li>8 just to again mention that that geophysical</li> <li>9 surveying did identify those points or</li> <li>10 concentrated areas where we knew there was</li> <li>11 buried metal.</li> <li>12 Out of the 1,000 and some odd</li> <li>13 individual points that were of interest and that</li> <li>14 we would like to dig, 350 of those were dug in</li> </ul>	
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<ol> <li>9</li> <li>10</li> <li>11</li> <li>12</li> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> </ol>	cross color, there were munitions debris, but no MEC, no munitions or explosives of concern were ever found, so nothing with an explosive hazard. In the burned areas and in the structures and remnants, kind of, of the prior use of the site, which is logical, it's where you would expect, there were higher concentrations of buried metal. And the rectangular blue features shown were the trenches. So where we knew we had a lot of buried metal, that's where a trench was placed. And the blue color of the trench shows that there		<ul> <li>8 just to again mention that that geophysical</li> <li>9 surveying did identify those points or</li> <li>10 concentrated areas where we knew there was</li> <li>11 buried metal.</li> <li>12 Out of the 1,000 and some odd</li> <li>13 individual points that were of interest and that</li> <li>14 we would like to dig, 350 of those were dug in</li> <li>15 areas that could be accessed and only 29 had any</li> <li>16 munitions debris even present. And none of it</li> <li>17 was explosively configured, so no munitions and</li> <li>18 explosives of concern.</li> <li>19 And then in the concentrated areas</li> <li>20 where even more metal was shown to be present in</li> <li>21 the surveying, that's where we just went ahead</li> </ul>	

1 there. So nothing explosively hazardous was		Page 36
	1 be protected if the site land use were to change	-
2 found in all of that intrusive investigation or	2 in the future, though there's no plan to do so.	
3 just digging that was done during the remedial	3 I know that that was a lot of data on	
4 investigation.	4 three unique sites with very different histories	
5 The remedial investigation also had the	5 and very different investigations that proceeded	
6 environmental sampling that I described and both	6 over time.	
7 the Human Health and Ecological Risk Assessments	7 So we can move to the questions	
8 were done on the data that was generated from	8 portion. But the one thing we would like to	
9 the sampling. And that's documented in the IR	9 point out before that is all of these phases	
10 report and concluded that there's no risk to	10 that have occurred, the Ohio EPA has been a team	
11 receptors, no MC-related contamination present	11 member and does review and chime in for all of	
12 at the site.	12 the conclusions presented to you tonight. So I	
13 So following the remedial investigation	13 think, Mr. Nick Roope, you were going to	
14 phase, it then moved forward to a feasibility	14 summarize Ohio EPA feedback.	
15 study, which we've talked about the criteria for	15 MR. ROOPE: Yes. Ohio EPA concurs with	
16 each site that we've run through, the rationale	16 the preferred alternatives that are being	
17 evaluated in the feasibility study that No	17 proposed.	
18 Further Action was appropriate because there is	18 MS. VAUGHN: Thank you, Nick.	
19 no risk. There's no explosive hazard present at	19 So, again, I would just like to clarify	
20 the site and no munitions constituent risk to	20 these questions that we want to record for	
21 any of the receptors.	21 purposes of the record tonight we hope are	
22 So No Further Action was what was	22 related to the three sites that we've been	
23 evaluated in the feasibility study. Again, as I	23 talking about. I mean, we do have team members	
24 stated, because there are no hazards present,	24 here once we conclude the formal presentation	
25 that No Further Action alternative is	25 and the formal Q and A and we stop our official	
Page 35		Page 37
1 implementable, and most importantly, the bottom	1 record, you know, we'll still be here informally	
2 bullet here is that it is protective of human	2 until we wrap up.	
3 health and the environment since there are no		
	3 But can I ask if there's any questions	
4 hazards or MC risk present.	4 on any of the three sites that we're summarizing	
<ul><li>4 hazards or MC risk present.</li><li>5 So the wrap-up slide that we have for</li></ul>	4 on any of the three sites that we're summarizing 5 tonight?	
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Baga	29	Page 40
Page 1 no linings to anything, right?	1 documents.	Page 40
2 So what happened to the – the – you	2 MS. SCHUMAN: I'm sorry. Again, what	
3 know, it's toluene, it's cancer-causing, you	3 was that?	
4 know. It's -	4 MS. VAUGHN: Rvaap.org.	
5 MS. VAUGHN: I want to make sure I	5 MS. SCHUMAN: Oh, yeah. I knew that.	
6 understood because you had mentioned -	6 I went on there. Where on that site can I find	
7 MS. SCHUMAN: Yeah. The TNT. Were you	7 the lab report?	
8 not shocked when these results came back as	8 MR. SEDLAK: Well, there's - we have	
9 totally nothing?	9 tens of thousands of lab reports -	
10 MS. VAUGHN: Well, specifically these	10 MS. SCHUMAN: Oh, really?	
11 three sites, there has been sampling conducted.	11 MR. SEDLAK: - from all the sites. We	
12 There has been sampling of the soil conducted,	12 have over 84 sites on the facility. Most of	
13 anywhere where there were concentrated areas of	13 them probably have some sort of lab reports.	
14 munitions found in the ground.	14 And so every site that we've discussed	
15 And that sampling was then evaluated as	15 will have the remedial investigation. It will	
16 part of the remedial investigation that's	16 have all of the analytical data for that site.	
17 available to the public, you know, has been	17 You can look them up by site on the	
18 reviewed by Ohio EPA and that was evaluated,	18 website by clicking on documents by site or	
19 whether or not there were munitions constituents	19 study area. And then you can look at each study	
20 present in the soil that could then either	20 area and look at all the reports that are listed	
21 migrate elsewhere or cause a risk to anyone in	21 that come from that study area up until the last	
22 contact with the soil.	22 week or so. We get them up very rapidly. So	
23 So for these three sites there were no	23 everything is on that site.	
24 MC risks. There were no munitions constituents.	24 Like I said, there's probably hundreds	
25 MS. SCHUMAN: They were not enough;	25 of thousands of analytical results available.	
Page		Page 41
1 there wasn't enough to be a risk. There was –	1 They're all in reports. They're in tables.	
2 you know, there's got to be - we know there	2 They're easy to look at and understand.	
3 are. There are – the TNT is in the ground.	3 MS. VAUGHN: Right. There will be a	
4 MS. VAUGHN: I would have to go and	4 summary of the samples collected, any detections	
5 look. I'm not sure whether any explosives were	5 that occurred, and a summary of the entire risk	
6 even detected for any of these three sites.	6 assessment process in each of the remedial	
7 MS. SCHUMAN: Nothing was even	7 investigation reports.	
8 detected? Because I thought it was the lower	8 MS. SCHUMAN: And who did those? Is it	
9 levels.	9 the same lab?	
10 Can we see the lab reports on that?	10 MR. SEDLAK: No. There's different	
11 MS. VAUGHN: Yes. All of the	11 labs. We've been doing some of these	
12 information is in the archive reports.	12 investigations since the '90s, so there are	
<ol> <li>MS. SCHUMAN: How do we get that?</li> <li>MS. VAUGHN: It's available on the</li> </ol>	<ol> <li>different laboratories. There's been different</li> <li>contractors. There's been the BRAC, there</li> </ol>	
14 MS. VAUGHIN: It's available on the 15 website.	15 was – before that it was the Army Health	
16 MS. SCHUMAN: Okay. Where was that? I	16 Command or something like that, and now there's	
17 didn't see that lab report.	17 the Army National Guard and the Ohio Guard.	
18 MS. VAUGHN: RI reports are part of the	18 So it's always been federal and it's	
19 administrative records.	19 always been the government, but it's been	
20 MR. SEDLAK: It's rvaap.org. All	20 several different – we've had several	
21 reports that we've ever done are on there and	21 contractors that have collected data out here,	
22 they have all the complete reports.	22 and all of it has been reviewed, all of it has	
23 MS. SCHUMAN: All the lab reports are	23 been validated, all of it has been QA/QC. It's	
24 on there?	24 all the highest quality data.	
25 MR. SEDLAK: They're all in the	25 MS. VAUGHN: 1 think that's just why I	

	ie 42	Page 44
1 was trying to ask if it was about a specific	1 MR. SEDLAK: We test all the sites	
2 site, just to help you find the report, you	2 until we get to where the regulator agrees that	
3 know, that it's for a specific site that you're	3 we can take them No Further Action.	
4 concerned about.	4 MS. SCHUMAN: So is that what's going	
5 MS. SCHUMAN: Uh-huh. Yeah.	5 on now here?	
6 Well, and then, like, Bob Downing, he	6 MR. SEDLAK: Two of these sites.	
7 was an Akron Beacon Journal – he used to work	7 MS. SCHUMAN: Two sites?	
8 there, and I guess it was 2011 they were	8 MR. SEDLAK: Right.	
9 supposed to do something with the arsenal. He	9 MS. SCHUMAN: So you're not going to do	
10 said something was going to happen and then I	10 anything now to those two sites?	
11 just wondered if it happened. They were	11 MR. SEDLAK: No. No Further Action.	
12 supposed to do a big cleanup.	12 MS. SCHUMAN: No Further Action.	
13 MR. SEDLAK: That's ongoing right now.	13 It's a little concerning because you	
14 MS. SCHUMAN: Yeah. Do you know what	14 got thousands and thousands of these things	
15 I'm talking about?	15 that – weren't they full of TNT?	
16 MR. SEDLAK: That's what this is all a	16 MR. SEDLAK: No.	
17 part of.	17 MS. SCHUMAN: Were they just the	
18 MS. SCHUMAN: That's what this is all a	18 shells, just making the shells or –	
19 part of?	19 MR. SEDLAK: Well, it depends on what	
20 MR. SEDLAK: Yeah.	20 - a lot of the times we don't know exactly what	
21 MS. SCHUMAN: Okay. Because they had	21 went on at the sites because it was so long ago.	
22 set aside money for that.	22 But that's why we take samples. That's why we	
23 MR. SEDLAK: We spend the money	23 do analysis.	
24 rapidly.	24 We sample in the most possible	
25 MS. SCHUMAN: Yeah. They had set	25 contaminated areas, and then when we don't find	
Pag 1 aside. So I figured something must need to be	e 43 1 anything, we don't find anything. It was 70	Page 45
2 done if they said it was going to be done.	2 years ago and these things have a tendency –	
3 MR. SEDLAK: Yes. We've been – all of	3 you know, it depends what the site was used for.	
4 this is all a part of the cleanup process. When	4 Some sites we find there's nothing there, but	
5 we do the Proposed Plan for Block D Igloo, it	5 they thought they should have been a site so	
6 says that we're going to go and further	6 they became a site. Then we find out through	
7 investigate and clean that up. And if two of	7 sampling and a thorough process of the CERCLA	
8 the sites don't need any cleanup but they're	8 process. We can determine that the site is no	
	O longer any kind of a rick to burger begith and	
9 Block D Igloo, it will be remediated and cleaned	9 konger any kind of a risk to human health and	
10 up.	10 the environment, and that's what we do with	
10 up. 11 We have several sites and they're all	<ul><li>10 the environment, and that's what we do with</li><li>11 these Proposed Plans and we move on from there.</li></ul>	
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Page 46 1 MR. SEDLAK: The sampling is twice a		
	1 from Dover to be an inspector and watched this,	Page 48
2 year right now. Again, you can see all those	2 and I know he has turned in and complained to	
3 samples also for the groundwater plant and all	3 his superiors about improper disposal of a lot	
4 of that has been sampled and all the results are	4 of these things. And he always told me they	
5 all on the website for all –	5 buried things where they shouldn't have and	
6 MS. SCHUMAN: People are drinking that	6 turned them in. So it's interesting how far you	
7 water now?	7 guys are going to try to clean this up. He	
8 MR. SEDLAK: There are some in the	8 would have loved to have seen this.	
9 cantonment area.		
	1 9 9 19 1	
10 MS. TAIT: We do have some potable	10 you said that the one site that you recommended	
11 wells, yes. But they have been scanned and	11 that you would take the surface and the subsoil	
12 nothing has been found in those wells.	12 and dispose of it.	
13 MS. SCHUMAN: So people are drinking	13 Where is a safer place – or how do you	
14 out of those wells?	14 dispose of it? It seems like the safest place	
15 MS. TAIT: There are potable wells,	15 is right where it's at. If you start moving it,	
16 yes.	16 it could –	
17 MS. SCHUMAN: It's potable? So they're	17 MS. VAUGHN: Block D Igioo, where the	
18 not drinking out of those wells?	18 surface removal –	
19 MS. TAIT: They are drinking out of	19 MR. MONTEVILLE: Yes.	
20 those wells.	20 MS. VAUGHN: - will be done? Yeah.	
21 MS. SCHUMAN: They are drinking out of	21 MR. MONTEVILLE: What will you do with	
22 those wells.	22 the soil?	
23 MS. TAIT: Not drinking out of the	23 MR. LEAHY: What they'll do is they'll	
24 groundwater wells. We have five potable wells	24 go back in and do another digital geophysical	
25 that we use in our main cantonment area where we	25 survey across the area, and they'll go and then	
		D
Page 47 1 have staff that work there. And they are used	1 dig up every anomaly they find.	Page 49
2 for drinking water; they're also used for	2 MR. SEDLAK: They're not going to take	
3 washing hands, toilets.	3 the soil off-site.	
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Page 50 1 MS. VAUGHN: I don't know if we might	1 chooses us as a site. We are able to dean up	Page 52
2 need to hold that question. So it's not going	2 that site in a productive manner, so that	
3 to become part of the public record for these	3 obviously we won't - we can facilitate their	
4 three sites.	4 construction, if needed.	
5 MS. CHRISTIAN-BENNETT: Oh, no. It's	5 MS. CHRISTIAN-BENNETT: Thank you.	
6 part of it.	6 Thank you for answering that.	
7 MS. VAUGHN: Okay.	7 MS. TAIT: Yep.	
8 MS. CHRISTIAN-BENNETT: And I had never	8 MS. VAUGHN: Would it be helpful to	
9 heard this until last night. We were talking	9 clarify that none of these three are part of	
10 about, you know, the site selection, those three	10 that footprint?	
11 sites. And in his opinion, because he's, like,	11 MS. TAIT: That's true. None of these	
12 an expert in this, and he goes around all over	12 sites are located –	
13 for test sites and different countries and	13 MS. VAUGHN: I wanted to make that	
14 stuff, and he's very familiar with what's going	14 dear.	
15 on with the east coast, he mentioned last night	15 MS. CHRISTIAN-BENNETT: I figured	
16 that he thought it was down to Ohio and	16 there's a continual deanup being done out	
17 Michigan.	17 there. Like I said, I remember attending the	
18 And I said, "Why us and Michigan?"	18 ceremony for the big award we received from the	
19 Besides we're big football rivals, right? And	19 Secretary of Army of Restoration. And it was a	
20 he said, "The thing that's concerning for our	20 big event because of the restoration that had	
21 site here is the cleanup going on." And that is	21 been done and the cleanup at our Camp. And then	
22 the first time that I had heard that, because I	22 to hear that last night, I'm like, really,	
23 went out there in 2018 when RVAAP received that	23 because that's the first we've heard.	
24 prestigious award from the Army regarding the	24 Okay. Thank you.	
25 restoration of a CJAG, or at that time it was	25 MS. VAUGHN: Thank you. All right.	
Page 51		Page 53
1 Camp Ravenna.	1 MR. LEAHY: Thanks for the question.	Fage 55
2 And so I was wondering if there's	2 MS. VAUGHN: All right. And there are	
3 anything you can add to that, if there were any	3 other ways - I want to make sure you know there	
4 - I mean, I understand it's a continual process	4 are other ways, if any questions occur to you	
5 out there, but can any of you speak to that?	5 after you leave, there's forms in the back, you	
6 Because that was the first we had ever heard	6 can write them in, e-mail them in to what's	
7 that that was a concern because before we had	7 shown there.	
8 always got kudos about how many years it's	8 I really thank you for your time in	
9 taken, they've deaned up, everyone is	9 coming out. Appreciate it very much. It's	
10 continuing, and that was the first that we had	10 valuable and thank you for participating.	
11 actually heard that it was a concern. So I	11 (Public meeting concluded.)	
12 don't know if anyone can -	12	
13 MS. TAIT: I can answer that question.	13	
14 There are deanup sites that are within the	14	
15 footprint or the potential footprint for the	15	
16 Missile Defense Agency.	16	
17 Most of them have actually achieved	17	
18 Remedy In Place or No Further Action. There's	18	
19 one site remaining that needs a soil removal		
	19	
20 action. So he might have been - I wasn't there	19 20	
20 action. So he might have been – I wasn't there 21 for the conversation, but he might have been		
<ul><li>21 for the conversation, but he might have been</li><li>22 concerned as far as timeline for that site.</li></ul>	20 21 22	
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25

25 that, obviously, the Missile Defense Agency

Page 54 CERTIFICATE 1 2 3 4 I, Grace M. Hilpert-Roach, do hereby 5 certify that as such Reporter I took down in 6 Stenotypy all of the proceedings had in the 7 foregoing transcript; that I have transcribed my 8 said Stenotype notes into typewritten form as 9 appears in the foregoing transcript; that said 10 transcript is the complete form of the 11 proceedings had in said cause and constitutes a 12 true and correct transcript therein. 13 14 Crace M. Hyper Price 15 16 Grace M. Hilpert-Roach, Notary 17 Public within and for the 18 State of Ohio 19 My commission expires 7-11-2021 20 21 22 23 24 25





















