

FINAL

COMMUNITY RELATIONS PLAN

MILITARY MUNITIONS RESPONSE PROGRAM
MUNITIONS RESPONSE SERVICES

MOUNT GRETNA TRAINING CAMP ARTILLERY RANGE WEST
MOUNT GRETNA, PA
(UNCLASSIFIED)

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**FINAL
COMMUNITY RELATIONS PLAN**


FOR THE MILITARY MUNITIONS RESPONSE PROGRAM (MMRP)
NON-DOD NON-OPERATIONAL DEFENSE SITES (NDNODS)
MOUNT GRETNA TRAINING CAMP ARTILLERY RANGE WEST
MUNITIONS RESPONSE SITE (PAHQ-008-R-01)
MOUNT GRETNA, PENNSYLVANIA

CONTRACT NO.: W912DR-15-D-0022



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LIST OF ACRONYMS

ARNG	Army National Guard
ARNG-I&E	Army National Guard Installations and Environment
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CMUA	concentrated munitions use area
COC	chemicals of concern
COPC	contaminants of potential concern
CPT	Captain
CRP	Community Relations Plan
DMM	discarded military munitions
DoD	Department of Defense
EPA	U.S. Environmental Protection Agency
FS	feasibility study
HQ	hazard quotient
HRR	Historical Records Review
km	kilometer
LOAEL	lowest observed adverse effect level
LUC	Land Use Control
MAJ	Major
MC	munitions constituents
MD	munitions debris
MDAS	munitions documented as safe
MEC	munitions and explosives of concern
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mm	millimeter
MMRP	Military Munitions Response Program
MPPEH	material potentially presenting an explosive hazard
MRS	munitions response site
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NDNODS	Non-Department of Defense, Non-Operational Defense Site
NOAEL	no observed adverse effect level
PAARNG	Pennsylvania Army National Guard
PADEP	Pennsylvania Department of Environmental Protection
PGC	Pennsylvania Game Commission

LIST OF ACRONYMS (CONTINUED)

PP	proposed plan
RA	remedial action
RAA	Remedial Action Alternative
RAB	Restoration Advisory Board
RCRA	Resource Conservation and Recovery Act
RD	remedial design
RI	remedial investigation
ROD	Record of Decision
SDZ	surface danger zone
SGL	State Game Land
SI	site inspection
SLERA	Screening Level Ecological Risk Assessment
TCAR	Training Camp Artillery Range
TCLP	Toxicity Characteristic Leachate Procedure
TPP	Technical Project Planning
U.S.	United States
USACE	United States Army Corps of Engineers
UXO	unexploded ordnance
WESTON®	Weston Solutions, Inc.

SECTION 1

OVERVIEW OF THE COMMUNITY RELATIONS PLAN

1. OVERVIEW OF THE COMMUNITY RELATIONS PLAN

The Army National Guard Installations and Environment (ARNG-I&E), the Pennsylvania Army National Guard (PAARNG), and the United States (U.S.) Army Corps of Engineers (USACE) – Baltimore District developed this *Community Relations Plan* (CRP) in preparation for community relations activities to be conducted during the *remedial design* and *remedial action (RD/RA)* being performed at the Non-Department of Defense, Non-Operational Defense Site (NDNODS) Mount Gretna Training Camp Artillery Range (TCAR) – West *Munitions Response Site* (MRS) (PAHQ-008-R-1) located within the State Game Land (SGL) Number 145 in the Borough of Mount Gretna, Lebanon County, Pennsylvania. The MRS is a 78.7-acre delineated portion of overlapping ranges that was used for former artillery and rifle training by PAARNG from 1885 through approximately 1941.

USACE has contracted with Weston Solutions, Inc. (WESTON®), an environmental engineering firm headquartered in West Chester, Pennsylvania, to conduct the RD/RA. WESTON will also assist ARNG-I&E, PAARNG, and USACE with community relations activities for the MRS during the RD/RA. Technical and government terms highlighted in *bold, italic, type* are defined in Appendix A – Glossary.

All technical documents prepared for the Mount Gretna TCAR – West MRS are available to the public in the *administrative record file* and *information repository* locations established and maintained by the Army. For the Mount Gretna TCAR – West MRS, the official administrative record file and information repository locations are detailed in Appendix B.

This CRP was prepared utilizing the following guidance:

- U.S. Environmental Protection Agency’s (EPA) Superfund Community Involvement Handbook (EPA, 2016).
- EPA’s Superfund Community Involvement Toolkit (EPA 540-K-01-004, 2010-2012).
- U.S. Army’s Public Participation for Defense Environmental Restoration Program (USACE, 2011).

EPA was established in 1970 to consolidate in one agency a variety of activities (i.e., research, monitoring, standard setting, and enforcement) to ensure environmental protection. The following EPA resources were used in preparation of this CRP:

- *Superfund Community Involvement Handbook* (EPA, 2016) available at http://www.epa.gov/superfund/community/cag/pdfs/ci_handbook.pdf.
- *Superfund Community Involvement Toolkit* (EPA, 2010-2012), available at <https://www.epa.gov/superfund/superfund-community-involvement-tools-and-resources>.

The plan also incorporates information from the Department of Defense (DoD) *Military Munitions Response Program* (MMRP) and environmental program as follows:

- *Public Participation Requirement for Defense Environmental Restoration Program* (USACE, 2011) available at https://www.publications.usace.army.mil/Portals/76/Publications/EngineerPamphlets/EP_200-3-1.pdf?ver=2013-08-22-090146-330.
- *Defense Environmental Restoration Program Management Manual* (DoD, 2012), available at <https://www.esd.whs.mil/Portals/54/Documents/DD/issuances/dodm/471520m.pdf>.

These two DoD documents will be available at the project information repository (see Appendix B). The *Army Public Affairs Program* (Army Regulation 360-1, Department of the Army, 2011) was also reviewed in the development of the Mount Gretna TCAR – West MRS CRP.

1.1 PURPOSE OF THE COMMUNITY RELATIONS PLAN

The purpose of the CRP is to keep the public informed of project activities on an ongoing basis; and to provide a meaningful, open, and proactive communication exchange that affords the major stakeholders the opportunity to be involved in the decision making process. Stakeholders for this project include ARNG-I&E, PAARNG, USACE, WESTON (USACE contractor), Pennsylvania Department of Environmental Protection (PADEP), Pennsylvania Game Commission (PGC), and the community of Mount Gretna, Pennsylvania. The objective of community relations is to involve the public in activities and decisions related to the RD/RA in accordance with the *Comprehensive Environmental Response, Compensation, and Liability Act* (CERCLA) and the *National Oil and Hazardous Substances Pollution Contingency Plan* (NCP).

The CRP is designed to address the unique requirements of the Mount Gretna borough and local community in the vicinity of SGL Number 145. The CRP provides the framework (referred to as the community relations program) for information exchange and public involvement in the environmental activities that will be performed at the Mount Gretna TCAR – West MRS. This CRP discusses the use of various communication tools such as press releases, information products

(e.g., fact sheets), public comment periods, project meetings, public meetings, and training sessions to disseminate information and/or solicit involvement from the public. The community relations program promotes two-way communication between members of the public, PGC, and ARNG-I&E, PAARNG, and USACE staff. ARNG is the lead agency implementing the RD/RA and making remedial decisions for the MRS with regulatory support provided by PADEP.

1.1.1 Objectives of the Community Relations Plan

This CRP is being developed to achieve the following objectives (USACE, 2011):

- Ensure that stakeholders understand that human safety (workers, property owners/users, and the public) is the paramount concern during MMRP activities at the MRS.
- Serve the community's information needs by keeping local residents, officials, and other stakeholders informed in a timely manner of MMRP project activities.
- Provide local residents, officials, other stakeholders, and members of the public with project documentation through the administrative record file/information repository.
- Encourage and enable the public to stay informed of project activities and programs.
- Provide a means to hear and capture/address public concerns.
- Foster and maintain a climate of understanding and trust between all stakeholders and the project team.

1.1.2 Organization of the Community Relations Plan

This CRP consists of the following sections:

- Section 1 – A summary of the objectives and contents of the CRP and an overview of EPA's (CERCLA) program for the RD/RA.
- Section 2 – A description and history of the MRS.
- Section 3 – A profile of the community around the MRS.
- Section 4 – A discussion of the community relations program developed specifically for the Mount Gretna TCAR – West MRS that will be employed during the RD/RA.
- Section 5 – A list of references.

This CRP contains the following appendices:

- Appendix A – Glossary

- Appendix B – Locations of Information Repository/Administrative Record
- Appendix C – Suggested Location for Public Meetings
- Appendix D – Key Contacts
- Appendix E – Questionnaire/Responses and Fact Sheet (from 3 September 2015 mailing)
- Appendix F – Fact Sheet for RD/RA Phase

1.2 OVERVIEW OF CERCLA PROGRAM

In 1980, the U.S Congress enacted CERCLA, also known as *Superfund*. CERCLA authorizes EPA to investigate and respond to hazardous substance releases that may endanger public health and the environment. The 1980 law also established a \$1.6 billion fund to pay for the investigation and cleanup of sites where parties responsible for the releases are unable or unwilling to address contamination problems. Congress amended and reauthorized CERCLA in October 1986 as the *Superfund Amendments and Reauthorization Act* (SARA).

It is important to note that the Mount Gretna TCAR – West MRS is not listed on the National Priorities List and is not an EPA Superfund site. However, the environmental studies and community relations program are being performed in accordance with CERCLA under the MMRP.

The following briefly describes the stages of CERCLA as they apply to a Superfund site:

1. **Discovery** – Sites may be discovered in a number of ways: a hazardous substance release occurs; citizens petition EPA to investigate a site, or state and local governments may request EPA to investigate a site.
2. **Preliminary Assessment/Site Inspection** – During the preliminary assessment, EPA searches permits, titles, and other records to gather information about past activities, exposure pathways, and human and other biological targets at the site. The Site Inspection (SI) involves an investigation of site conditions.
 - a. For the Mount Gretna TCAR – West MRS, the CERCLA requirements of a preliminary assessment were met during the NDNODS Inventory completed for Pennsylvania (Malcolm Pirnie, 2008). This document is available in the information repository, which will be maintained by WESTON during implementation of the final remedy for the MRS.
 - b. For the Mount Gretna TCAR – West MRS, the CERCLA requirements of an SI were met during the Historical Records Review (HRR) and field investigations

completed as part of the Pennsylvania Site Inspection (Parsons, 2011; Parsons, 2012). This document is available in the information repository, which will be maintained by WESTON during implementation of the final remedy for the MRS.

3. **National Priorities List** – The site is considered to be listed on the National Priorities List, which is a list of the most serious sites identified for possible long-term cleanup.
4. **Remedial Investigation/Feasibility Study** – The results of the *Remedial Investigation/Feasibility Study* (RI/FS) are used to determine the nature and extent of contamination, including assessment of hazards and baseline risks to potential receptors, to evaluate the treatability of site contamination and potential performance and cost of treatment technologies.
5. **Proposed Plan** – A document that describes the cleanup alternative evaluated for a Superfund site and identifies the preferred alternative and the rationale for the preference. A public comment period and opportunity for a public hearing take place after the release of the *Proposed Plan* (PP) and before the *Record of Decision* (ROD).
6. **Record of Decision** – The decision document that explains which cleanup alternatives will be used at a site, including rationale for selection, a summary of community concerns and a description of how concerns were addressed (i.e., *responsiveness summary*), and applicable or relevant appropriate requirements that will be adhered to.
7. **Remedial Design/Remedial Action** – The process of preparing and implementing plans and specifications for cleaning up the site.
8. **Construction Completion** – The point at which the physical cleanup construction is completed; however, this does not mean the final cleanup goals have been achieved.
9. **Post-Construction Completion** – The step that ensures cleanup actions provide for the long-term protection of human health and the environment through long-term response actions, operation and maintenance, institutional controls, five-year reviews, and remedy optimization.
10. **National Priorities List Delete** – The point at which a site is removed from the list after all cleanup actions are complete and cleanup goals are achieved.
11. **Reuse** – Information provided on how the Superfund program works with communities and other partners to return hazardous waste sites to safe and productive use without interfering with the cleanup remedy.

More details about the Superfund remedial process are available online at the following EPA website: <http://www.epa.gov/superfund/cleanup/index.htm> (EPA, 2011).

1.2.1 Community Involvement Requirements

There are specific community relations activities that must be performed in accordance with CERCLA (see **Table 1-1**, Required Community Involvement Activities at CERCLA Remedial Responses). Additional community relations activities tailored to the distinctive needs of each site and the specific community interests may be implemented.

**Table 1-1
Required Community Involvement Activities for
CERCLA Remedial Investigation through Decision Document**

Site Activity	Source Citations	Source Language
After the Record of Decision is signed		
<p>Record of Decision Availability and Notification</p> <p>Responsible Party: ARNG-I&E and PAARNG</p>	<p>CERCLA 117(b); NCP 40 CFR §300.430(f) (6)(i) and (ii)</p>	<p>CERCLA 117(b) (b) Final plan – Notice of the final remedial action plan adopted shall be published and the plan shall be made available before commencement of any remedial action.</p> <p>NCP 40 CFR §300.430(f) (6)(i) and (ii) (6) <i>Community relations when the record of decision is signed.</i> After the record of decision is signed, the lead agency shall: (i) Publish a notice of the availability of the record of decision in a major local newspaper of general circulation; and (ii) Make the record of decision available for inspection and copying at or near the facility at issue prior to the commencement of any remedial action.</p>
<p align="center">Site Public Involvement Activities for Record of Decision Availability and Notification</p> <p>The ROD (signed on 29 October 2018) is located in the Administrative Record File (located at PAARNG) and in the Information Repository located in the Annville Free Library, Annville, Pennsylvania. A Public Notice was issued in the <i>Lebanon Daily News</i> Newspaper, in Lebanon, Pennsylvania, announcing to the public the availability of the final record of decision on 9 March 2019.</p>		
<p>Revision of the Community Involvement Plan (also known as a Community Relations Plan)</p> <p>Responsible Party: ARNG-I&E and PAARNG</p>	<p>NCP 40 CFR §300.430(c) (1)</p>	<p>(c) Community relations. (1) Prior to the initiation of the remedial design, the lead agency shall review the community relations plan to determine whether it should be revised to describe further public involvement activities during the remedial design/remedial action that are not already addressed or provided for in the community relations plan.</p> <p><i>Note: The Community Relations Plan (CRP) referenced in the NCP passage above is now referred to in common practice as the Community Involvement Plan (CIP).</i></p>
<p align="center">Site Public Involvement Activities for Revision of the Community Involvement Plan</p> <p>Based on the level of public interest in the Mount Gretna TCAR – West MRS, evaluate the need to revise and/or update the community relations plan.</p>		

Table 1-1

**Required Community Involvement Activities for
CERCLA Remedial Investigation through Decision Document (Continued)**

Site Activity	Source Citations	Source Language
<i>Note: This CRP covers activities for remedial design and remedial action. The activities provided in the green-shaded rows occur if there is a need to revise the Record of Decision after it has been signed.</i>		
Post-Record of Decision Significant Changes When the remedial or enforcement action, or the settlement or consent decree, differs significantly from the remedy selected in the record of decision with respect to scope, performance, or cost.		
Notice and Availability of Explanation of Significant Differences See Appendix A, page 112 EPA <i>Superfund Community Involvement Handbook</i> , January 2016.		
Fundamental Changes When the remedial or enforcement action, or the settlement or consent decree, fundamentally alters the basic features of the selected remedy with respect to scope.		
Notice and Availability/Brief Description of Proposed Record of Decision Amendment See Appendix A, page 112 EPA <i>Superfund Community Involvement Handbook</i> , January 2016.		
Public Comment Period, Public Meeting, Meeting Transcript, and Responsiveness Summary See Appendix A, pages 112-113 EPA <i>Superfund Community Involvement Handbook</i> , January 2016.		
Notice and Availability of Amended Record of Decision See Appendix A, page 113 EPA <i>Superfund Community Involvement Handbook</i> , January 2016.		
Post-Record of Decision Significant Changes When the remedial or enforcement action, or the settlement or consent decree, differs significantly from the remedy selected in the record of decision with respect to scope, performance, or cost.		
Notice and Availability of Explanation of Significant Differences See Appendix A, page 112 EPA <i>Superfund Community Involvement Handbook</i> , January 2016.		
Remedial Design		
Fact Sheet and Public Briefing Responsible Party: ARNG-I&E and PAARNG	NCP 40 CFR §300.435(c) (3)	(3) After the completion of the final engineering design, the lead agency shall issue a fact sheet and provide, as appropriate, a public briefing prior to the initiation of the remedial action.
Site Public Involvement Activities for the Remedial Design A fact sheet will be prepared and distributed per the site mailing list to property owners within the MRS. Based on the level of public interest in the Mount Gretna TCAR – West MRS, a public meeting may be scheduled. The details of a scheduled public meeting or the opportunity of a public meeting will be included in a public notice in the Lebanon <i>Daily News</i> newspaper, Lebanon, Pennsylvania, announcing to the public the remedial design and associated public meeting.		

SECTION 2

MUNITIONS RESPONSE SITE BACKGROUND

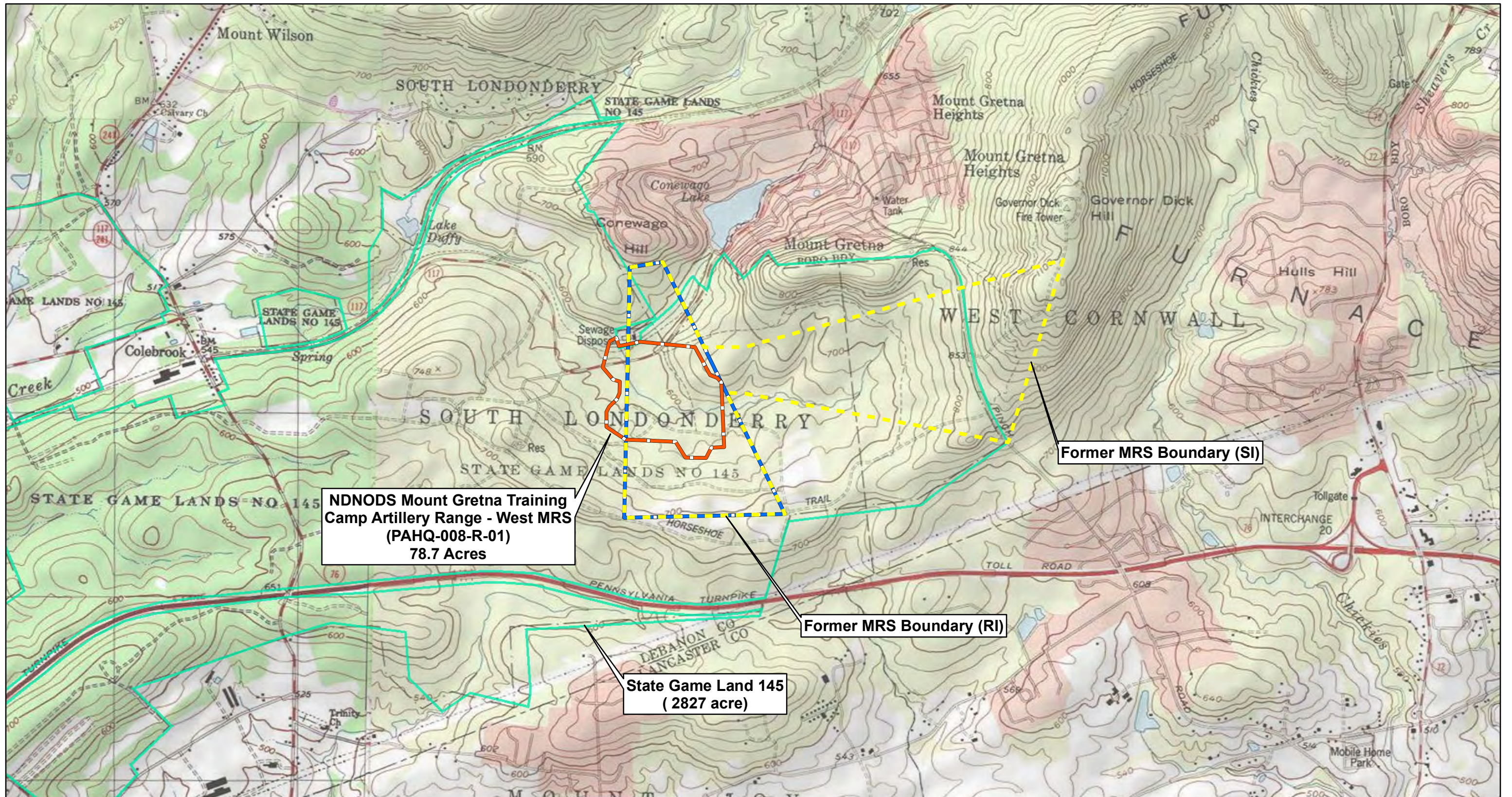
2. MUNITIONS RESPONSE SITE BACKGROUND

2.1 MUNITIONS RESPONSE SITE LOCATION AND SETTING

The Mount Gretna TCAR – West MRS (PAHQ-008-R-01) is located within the SGL Number 145, in Mount Gretna, Pennsylvania. The SGL Number 145 is owned by the Commonwealth of Pennsylvania and is managed by the Pennsylvania Game Commission (PGC). The Mount Gretna TCAR – West MRS lies within Lebanon County, and was used for artillery and rifle training from 1885 through 1941 (estimated). As initially delineated, the MRS encompassed 421 acres of overlapping *range fans* and included an area east of the current MRS. Based on the results of the SI reported in 2012, the 421-acre MRS was split into two MRSs to distinguish between the area where *munitions and explosives of concern* (MEC) was historically discovered and *munitions constituents* (MC) contamination is present (181 acres) from the remainder of the surface danger zone (SDZ), where no MEC or MC has been found (240 acres) (Parsons, 2012). Based on the results of the RI report in 2017, the 181-acre MRS was further delineated (see **Figure 2-1**) to distinguish between the 78.7 acres that include the MEC and MC source areas present, from the remaining portion of the MRS (approximately 114.4 acres) where no MEC or MC posing unacceptable risk to receptors was identified (WESTON, 2017).

The MRS currently encompasses 78.7 acres primarily owned by one entity, the Commonwealth of Pennsylvania (See **Figure 2-2**). One industrial property, a sewage treatment plant, is located along the northern MRS boundary. The remaining acreage, consisting of the east-west range within the original MRS, was separated and is being tracked as two separate MRSs: the NDNODS Mount Gretna TCAR – East MRS (PAHQ-008-R-02) (Parsons, 2012), which was recommended for No Further Action as part of the SI, and the Mount Gretna TCAR – Buffer MRS (PAHQ-008-R-03), which was recommended for No Further Action as part of the RI (WESTON, 2017a).

The Mount Gretna TCAR – West MRS is located in a predominantly wooded area with no distinct boundaries. At this time, Mount Gretna TCAR – West MRS consists of largely undeveloped forested land, which is being used by the PGC for timber harvesting and recreation. Conewago Hill is located to the north of the MRS. A portion of the northern MRS is also divided by Route 117. The Conewago Creek flows in a southwesterly direction through the MRS, north of Route 117.

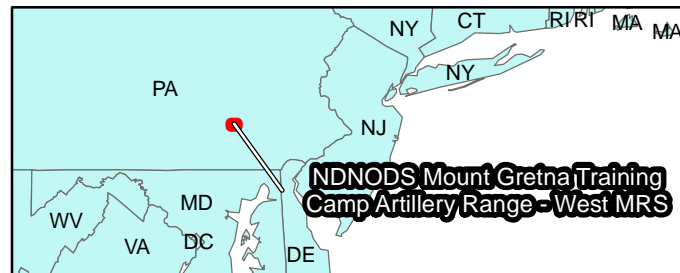


**NDNODS Mount Gretna Training
Camp Artillery Range - West MRS
(PAHQ-008-R-01)
78.7 Acres**

Former MRS Boundary (SI)

Former MRS Boundary (RI)

**State Game Land 145
(2827 acre)**

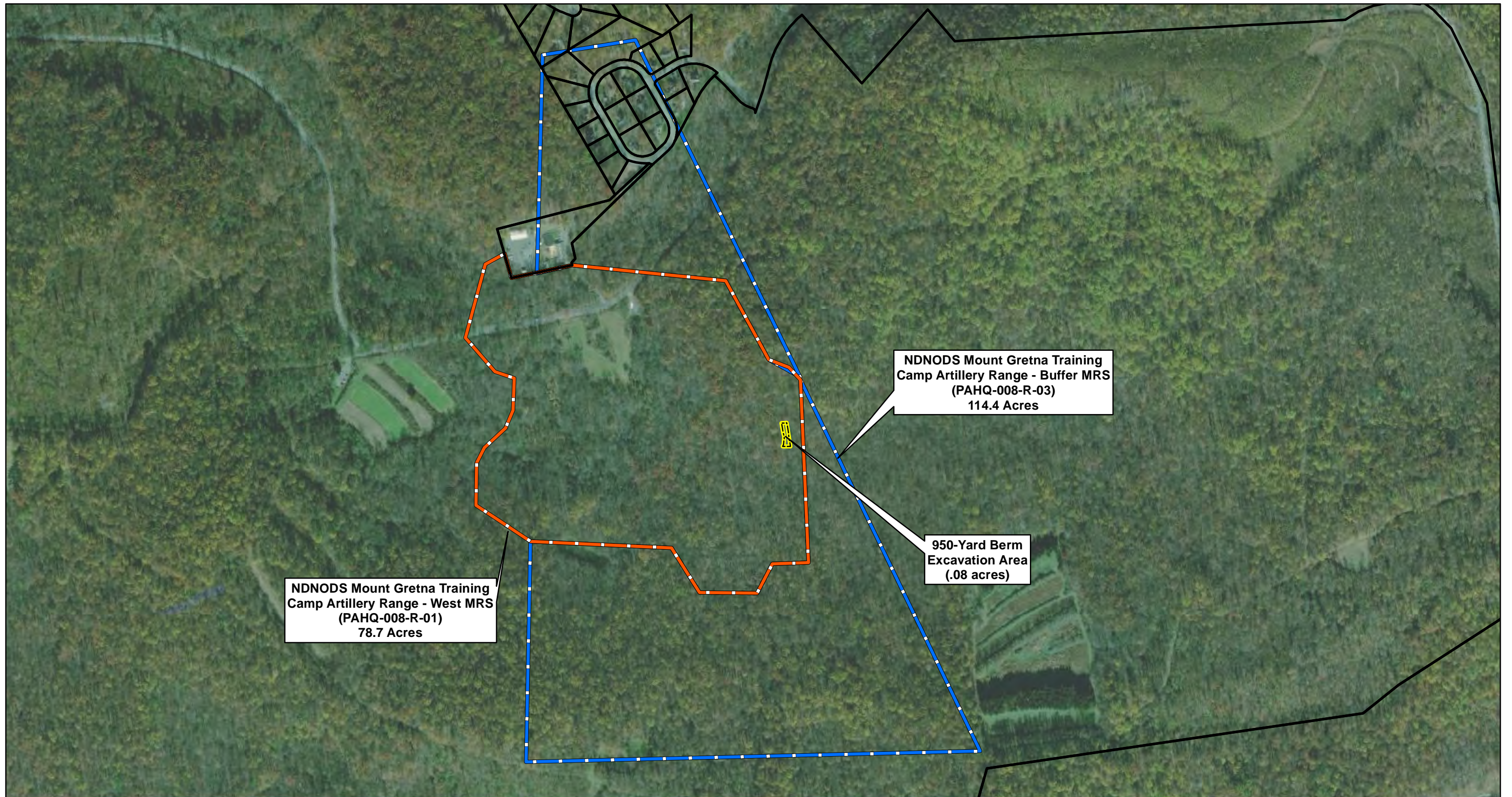


Legend	
	Former MRS Boundary (SI)
	Former MRS Boundary (RI)
	NDNODS Mount Gretna Training Camp Artillery Range - West MRS (PAHQ-008-R-01)
	State Game Land 145

<p>U.S. Army Corps Of Engineers</p>	<p>Mount Gretna Training Camp Artillery Range - West Lebanon County, PA</p>	

NOTES:
Data Source: Bing Topographic Mapping Service.
Quad: Manheim, PA. 1975





<p>FIGURE 2-1 MRS Regional Location NDNODS Mount Gretna Training Camp Artillery Range - West MRS Lebanon County, Pennsylvania</p>	
<p>Coordinate System: UTM, Z18N, WGS84, Meter</p>	<p>8/9/2017 Revision: 0</p>



**NDNODS Mount Gretna Training
Camp Artillery Range - West MRS
(PAHQ-008-R-01)
78.7 Acres**

**NDNODS Mount Gretna Training
Camp Artillery Range - Buffer MRS
(PAHQ-008-R-03)
114.4 Acres**

**950-Yard Berm
Excavation Area
(.08 acres)**

Legend	
	NDNODS Mount Gretna Training Camp Artillery Range West MRS (PAHQ-008-R-01) - 78.7 acres
	Parcel Boundary
	NDNODS Mount Gretna Training Camp Artillery Range Buffer MRS (PAHQ-008-R-03) - 114.4 acres
	950-Yard Berm Excavation Area

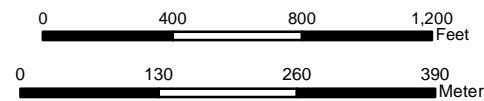


U.S Army Corps
Of Engineers

Mount Gretna Training
Camp Artillery Range - West
Lebanon County, PA



FIGURE 2-2
MRS Boundary
NDNODS Mount Gretna Training
Camp Artillery Range - West MRS
Lebanon County, Pennsylvania



NOTES:
Aerial Data Source: ESRI Imagery
Mapping Service, 2013

Coordinate System:
UTM, Z18N, WGS84, Meter

2/8/2019
Revision: 0

2.2 MOUNT GRETNA TRAINING CAMP

PAARNG moved into the Mount Gretna area of Pennsylvania (Lebanon Township) in 1885, when it obtained 120 acres in the vicinity of the area that became the Borough of Mount Gretna.

The land was used for a summer encampment for approximately 50 years and was known as Camp Gobin, and then later as Camp Winfield Scott Hancock, and then finally as Mount Gretna Training Camp. In 1898, the camp trained soldiers for the Spanish-American War.

In 1903, the camp became a permanent training camp because of its usefulness and status as the only camp in Pennsylvania that had not experienced outbreaks of typhoid or yellow fever. In 1935, because of the proximity of the site to public camping grounds, the camp was moved approximately 15 miles north to its current location at the Fort Indiantown Gap National Guard Training Center near Annville, Pennsylvania.

2.2.1 Mount Gretna Training Camp Artillery Range – West Munitions Response Site History

This MRS was used for artillery and small arms training from 1885 to 1941 (estimated). During that time, two overlapping ranges were used, including a north-south range that had a firing point in the vicinity of the southeast flank of Conewago Hill with artillery fire directed to an area south of the Rifle Range and north of the current location of Interstate 76. The secondary area was an east-west range with targets that were reported to be located west of Pinch Road. According to historical records, this Rifle Range contained all of the range backstops and an earthen berm. Additionally, historical records suggest that these ranges were only used for limited field artillery training because of the unsuitable setting of the former training camp (Parsons, 2012). Previous investigations at the ranges include the NDNODS Inventory completed in 2008 and the SI completed in 2012, which are further discussed in the following subsections.

2.2.1.1 NDNODS Inventory Report

In 2008, a PAARNG NDNODS Inventory Report was completed for the Commonwealth of Pennsylvania, which identified the Mount Gretna TCAR – West MRS as a transferred range consisting of two overlapping range areas encompassing 421 acres owned by the local government, the Commonwealth of Pennsylvania, and/or under private-ownership. Potential munitions were reported as medium caliber (20 millimeter [mm], 25mm, 30mm), high explosives, large caliber

(37mm and larger) mortars, and “other”. The inventory was performed in accordance with the requirements set forth by the congressional National Defense Authorization Act of Fiscal Year 2002, which directed the DoD inventory of military ranges and defense sites that are known or suspected to contain MC and MEC (including *unexploded ordnance* [UXO], *discarded military munitions* [DMM], and MC present in high enough concentrations to pose an explosive hazard) (Malcolm Pirnie, 2008). The scope of the inventory was adequate to meet the Preliminary Assessment requirement under CERCLA.

Several archive documents were identified that provided details regarding range layout, location, munitions used, and former ownership of the MRS. This historical information was combined with personnel interviews and a site visit at the time of the inventory to develop a map depicting the ranges with appropriate SDZs based on the potential munitions used and the physical characteristics of the land. The boundary depicted established the MRS area as 421 areas (Malcolm Pirnie, 2008).

2.2.1.2 Site Inspection

The next phase of investigation under CERCLA included an SI, completed in 2012, using a two-phase approach consisting of a HRR and field inspection to confirm the presence/absence of MEC and MC (Parsons, 2012). The HRR was the initial step in the MMRP SI to supplement information gathered during the inventory in 2008. During the HRR, records searches were performed to facilitate decision-making processes to determine the next step for the SI. In August 2011, the SI field investigation was performed at the MRS inclusive of the 421 acres identified following the NDNODS Inventory. The scope of this inspection included a 12.62-mile *magnetometer*-assisted visual survey. The northeast corner of the MRS, east of Pinch Road, was not investigated during the SI because deer fencing prohibited access of field personnel to the area (Parsons, 2012).

Range features observed during the SI field investigation in the north-south range included a target berm that measured 100-yards long by 6-feet tall, four wooden stakes/large posts at the base of the target berm, and an additional suspected berm. Munitions were also observed in the north-south range area, which included eight *3-inch Stokes mortars*, some of which were potentially MEC. These munitions were either removed or detonated as appropriate by The Pennsylvania State

Police. No range features, MEC, or munitions debris were observed by inspectors in the east-west firing range area outside of where it overlaps with the north-south range (Parsons, 2012).

Surface soil samples were collected from a total of 12 biased locations within the MRS and three ambient locations outside of the MRS during the SI field investigation. Additionally, two co-located surface water/sediment samples were collected within the MRS and one ambient surface water/sediment location was assessed from outside of the MRS boundary. All of the samples were analyzed for MC metals (antimony, copper, *lead*, mercury, and zinc) and explosives. Explosive compounds were not detected in surface soil, surface water, or sediment samples. Antimony, copper, lead, mercury, and zinc were detected above MRS-specific SI maximum ambient concentrations in soils; however, only lead exceeded the specified PADEP evaluation criteria. Copper was detected in sediment above the ambient MRS-specific SI maximum concentration, but did not exceed PADEP human health screening criterion. Surface water results reported only zinc in higher than ambient concentrations; however, zinc concentrations did not exceed the EPA screening criterion.

Based on the results of the SI, the MRS was divided to separate the east-west range from the north-south range where potential MEC, MC, and small arms ammunition were detected. Therefore, the acreage was revised to 181 acres, and the NDNODS Mount Gretna TCAR – West MRS was recommended to proceed to the RI phase of CERCLA to assess MEC and MC (Parsons, 2012).

Since the SI field work was completed, two additional 3-inch Stokes mortars were found by PGC employees in January 2012, and four additional 3-inch Stokes mortars were found between 2013 and 2014. The Pennsylvania State Police responded to the items that were found on SGL Number 145 property.

2.2.2 Remedial Investigation/Feasibility Study

The RI was conducted in 2016 to characterize the nature and extent of MEC and MC remaining on the Mount Gretna TCAR - West MRS. A total of 11.2 miles of transects were walked across the MRS with a magnetometer to traverse, detect, and delineate potential concentrated munitions use areas. During intrusive investigations of flagged anomalies, the following items were found: one 60mm mortar (smoke, white phosphorus), three stokes mortars (practice, fuzed), and 52 pieces of munitions debris (MD) (fragmentation, unfuzed stokes mortars, and 37mm fragmentation).

Surface soil samples collected during the RI at the 950-yard backstop contained antimony and lead above human health screening criteria. Lead also exceeded the Toxicity Characteristic Leachate Procedure (TCLP). Although these metals are considered MC contamination and there is an exposure pathway for site visitors and workers who may come into contact with the soil, the risk assessment conducted as part of the RI determined that there is no unacceptable risk associated with the metals in surface soil. MC metals, including antimony, copper, lead, and zinc in surface soil and copper in surface water and sediment also were detected in RI samples at concentrations exceeding ecological screening levels. The ecological risk assessment determined there is adverse ecological risk associated with the lead found in surface soil for insectivorous birds at the 950-yard backstop. The risks of exposure to MC as well as to MEC are discussed in more detail in Subsection 2.2.2.1, Summary of MRS Risks.

Based on the results of the RI, it was recommended that the 181-acre MRS be divided into two MRSs. The Mount Gretna TCAR – West MRS was revised to 78.7 acres to encompass the potential MEC and MC source areas present at the site (concentrated munitions use area [CMUA] and 950-Yard Backstop Excavation Area) and the location of the unfuzed 3-inch Stokes mortar encountered north of Route 117 (also known as Mt. Gretna Road). The remaining 114.4 acres are considered a buffer area and were recommended for No Further Action, based on the absence of MEC and MC.

2.2.2.1 Summary of MRS Risks

CERCLA requires that a risk assessment be prepared to quantify the risk associated with contamination identified at the MRS.

Human Health Risks

A *Human Health Risk Assessment* was conducted as part of the RI to evaluate potential risks for human receptors.

MEC – Human Health Assessment

During the RI at the Mount Gretna TCAR – West MRS, MEC was found at the ground surface within SGL 145. Therefore, complete exposure pathways for MEC at the surface were identified for site visitors and workers who recreate or work in SGL 145.

The RI identified a MEC source area approximately 800 feet south of the residential neighborhood (Woodland Circle), in the northern portion of the MRS. Woodland Circle is a street comprised of multiple residential parcels of land (see **Figure 2-2**). No MEC or MD was found in the residential neighborhood, and the RI concluded there are no complete exposure pathways to MEC at the surface for residents.

MEC was also found in the subsurface of the MRS, so the RI concluded there is a complete exposure pathway to MEC in the subsurface for workers who may conduct intrusive work in SGL 145 or around the nearby sewage treatment plant. Because recreational activities in the MRS are not expected to include any intrusive activities, no complete MEC pathways in subsurface soil were identified for site visitors.

MC – Human Health Assessment

Soil, sediment, and surface water were investigated during the RI for the Mount Gretna TCAR – West MRS to determine if MC are present at concentrations that pose an unacceptable risk to human health. Antimony and lead were identified as contaminants of potential concern (COPCs) in soil samples from the 950-yard backstop. An evaluation of risk from COPCs in soil was performed for residents, occupational workers, and site visitors. No adverse human health risk was identified. Therefore, antimony and lead were not carried forward as chemicals of concern (COCs).

Ecological Risks

A *Screening Level Ecological Risk Assessment* (SLERA) was conducted as part of the RI to evaluate potential risks for ecological receptors.

MEC – Ecological Risks

Ecological receptors do not typically engage in activities that expose them to MEC hazards, so no exposure pathways are considered complete or potentially complete for wildlife, and there are no risks to ecological receptors from MEC hazards at the Mount Gretna TCAR – West MRS.

MC – Ecological Risks

Soil, sediment, and surface water sample results were evaluated to determine if MC are present at concentrations that pose an unacceptable risk to ecological receptors. In accordance with EPA guidelines, the SLERA includes conservative assumptions to ensure ecological receptors and risks are not prematurely eliminated from consideration. The SLERA found that there is potential risk to plants, soil invertebrates, birds, and mammals from exposure to antimony, copper, and lead in surface (0 to 6 inches below ground surface [bgs]) and shallow subsurface (6 to 24 inches bgs) soil. Risk from antimony, copper, and lead in sediment is not expected. Because of the limited size of the affected areas within the MRS (about 15 of the 181 acres), and typical ranges of wildlife species for foraging and nesting activities, wildlife are not expected to be exposed to unacceptable levels of MC in the MRS. The SLERA refined risk estimates by including a factor of 10 as a standard uncertainty factor used to extrapolate from a *no observed adverse effect level* (NOAEL) to the lowest observed adverse effect level (LOAEL) shown to produce adverse effects. A no effect hazard quotient (HQ) of less than 10 represents a low effect HQ of one. A HQ of less than 10 was observed for all receptors except insectivorous birds exposed to lead in surface soil. Applying the standard uncertainty factor of 10 used to extrapolate from a NOAEL to a LOAEL, the no effect screening level of 11 mg/kg for insectivorous birds results in a level of 110 mg/kg for lead. Lead concentrations in surface soil at the 950-yard backstop exceed this low effect level.

The COCs for ecological receptors foraging in the MRS that were identified through the SLERA process include lead in surface soil. Although copper in surface water was elevated above acceptable risk levels, the upstream sample also contained elevated copper, suggesting another source of copper is present. Therefore, copper is not considered to be related to past military use and will not be carried forward as a COC.

2.2.3 Feasibility Study

The FS presented the following five alternatives that were evaluated as potential cleanup options at Mount Gretna TCAR – West MRS:

- Alternative 1 – No Action (required to be evaluated in accordance with the NCP).
- Alternative 2 – **Land Use Controls** (LUCs).
- Alternative 3 – MEC Surface Clearance (78.7 acres) with LUCs.
- Alternative 4 – MEC Surface and Subsurface Clearance (78.7 acres) with LUCs.
- Alternative 5 – MEC Surface and Subsurface Clearance (78.7 acres) with MC Soil Removal (~0.08 acre) to depth of 12 inches and No LUCs.

2.2.4 Proposed Plan

The PP presented an overview of the five remedial alternatives identified in the FS and announced the preferred alternative of Alternative 5: MEC Surface and Subsurface Clearance (78.7 acres) with MC Soil Removal (~0.08 acre) to depth of 12 inches and No LUCs. A public notice was published on February 2, 2018, in the Lebanon *Daily News*, headquartered in Lebanon, Pennsylvania. The public notice provided the dates of the 30-day public comment period (February 2, 2018 through March 3, 2018). No public meeting was scheduled because there were no comments received from the public on the PP.

2.2.5 Record of Decision

The ROD was signed on October 29, 2018, and presents the ARNG-selected remedies for the Mount Gretna TCAR – West MRS. ARNG made this decision in accordance with CERCLA, as amended by SARA, and to the extent practicable, the NCP. This decision was based on the information contained in the administrative record for the MRS.

The response action selected in this ROD for Mount Gretna TCAR - West MRS (PAHQ-008-R-01) is necessary to protect human health and the environment from DoD *military munitions* and MC-

contaminated soil that may be present from past munitions-related activities. Such munitions may be determined upon evaluation by qualified personnel to be MEC.

The selected remedy for Mount Gretna TCAR - West MRS (PAHQ-008-R-01) is Alternative 5 - Surface and Subsurface MEC Clearance (78.7 acres) to 16 inches bgs with MC Soil Removal (0.08 acre) to 12 inches Depth and No LUCs. Alternative 5 will achieve cleanup objectives for the Mount Gretna TCAR -West MRS, which are to reduce hazards to human receptors associated with MEC and MC in surface and subsurface soils. Alternative 5 includes a surface and subsurface removal of military munitions within the MRS and excavation and off-site disposal of soil containing more than 110 milligrams per kilogram (mg/kg) of lead. This will also prevent improper handling/disposal of soil containing greater than 5 milligrams per liter (mg/L) of lead using the TCLP. **Figure 2-1** shows the Mount Gretna TCAR - West MRS (78.7 acres), which includes the 78.7 acres designated for removal of military munitions and the 0.08-acre area designated for removal of MC-impacted soil. Alternative 5 is estimated to require 18 months to complete.

The removal of military munitions will be completed by qualified personnel using hand-held detectors, such as a Schonstedt® brand magnetic locators or equivalent instruments. All items found on the surface and in the subsurface, to the maximum depth detected by the instrument, will be removed with hand tools. The maximum depth expected is 16 inches bgs.

Brush cutting will be performed with hand tools, wherever necessary, to access the munitions without undo disturbance to natural resources. Significant impacts to vegetation could occur if a high density of military munitions is encountered or items are detected below 16 inches bgs, such that a large amount of vegetation and soil would need to be removed. High densities of military munitions are not expected based on the RI findings. Brush clearing activities will not include clearance of protected trees or brush, or if it is a habitat for endangered species.

Any item suspected to be MEC that is encountered during the removal of military munitions will be blown-in-place or consolidated with other material potentially presenting an explosive hazard (MPPEH) for on-site detonation. The material documented as safe (MDAS) will be consolidated during removal, certified as explosive-free MDAS, and disposed off-site for recycling.

The remedy includes the excavation and off-site disposal of MC-impacted soil in the 0.08-acre area. Based on lab results from the RI, this soil meets the definition of a characteristic hazardous waste, according to the Resource Conservation and Recovery Act (RCRA) because of the concentrations of leachable lead in soil samples. The soil will be removed with mechanized equipment to a depth of 12 inches bgs and will amount to an estimated 129 cubic yards, which will be shipped to a secure landfill permitted to accept RCRA characteristic hazardous waste.

Full clearance of trees and brush will be required in the MC-impacted soil removal area to provide access for the excavation equipment. Brush clearing activities will not include clearance of protected trees or brush, or if it is a habitat for endangered species. Confirmation soil samples will be collected at the base of the excavated area and analyzed for lead to ensure that the removal of lead-contaminated soil is complete. The excavation will be backfilled with clean soil, and the area will be graded to match the surrounding area.

Based on the information available at the time the ROD was signed, ARNG believes that the selected remedy, Alternative 5, is more favorable in comparison to the other alternatives evaluated in the FS.

2.2.6 Remedial Design/Remedial Action

According to the FS (WESTON, 2017b), surface and subsurface clearance in accordance with Alternative 5 includes removal of munitions to the greatest extent possible at the surface and in the subsurface to a depth of 16 inches bgs. The surface clearance will include partially exposed and fully exposed items on the ground surface. The subsurface removal will be conducted to a depth of 16 inches bgs, which coincides with the maximum detection depth for a 37mm projectile using analog detection instruments like the Schonstedt magnetometer (or equivalent) that uses flux-gate technology. The removal will cover approximately 78.7 acres, with the intent of achieving unrestricted exposure following remedial action. Flux-gate technology would be effective because the munition items identified during the RI (60mm mortars, 3-inch Stokes mortars, and 37mm projectile fragments) are all ferrous in nature. These technologies are anticipated to be viable based on MRS-specific munitions and physical characteristics and successful past use at the MRS during the RI. The maximum depth munitions have been identified to date is 5 inches bgs.

Impacts to natural resources (mature forest within SGL 145) from removal of vegetation cover and trees might be necessary to access all munitions using hand excavation within the maximum detection depth for surface and subsurface clearance, dependent upon item density and/or depth of munitions. Significant impacts to natural resources should only occur in a scenario where an excessive amount of intrusive activity is required to remove MEC (a high density of MEC is identified in one location or instances where mechanical excavation is required) that could disturb a large portion of the forest and require tree removal. However, brush cutting will be performed with hand tools where needed to gain accessibility during the surface/subsurface removal to minimize disturbance. Full brush clearing and tree removal is typically not required to detect or remove munitions in the subsurface using a Schonstedt locator (or equivalent) and hand tools. High densities of MEC are possible based on the MEC/MD density identified during the RI; however, mechanical excavation should not be required based on depth of MEC located during the RI. Anomalies located beneath trees will be investigated either manually or via mechanical means.

Intrusive activities will be performed using hand-tools and restoration of disturbed areas will be required. Any MPPEH recovered during the surface clearance would be blown-in-place or consolidated for disposal. The MDAS will be consolidated during removal, certified as explosive-free MDAS, and disposed off-site for recycling.

Alternative 5 will also include the excavation, transportation, and off-site disposal of lead-contaminated soil that presents a risk to ecological receptors (insectivorous birds) and is a RCRA characteristic hazardous waste. This technology is a common and successful alternative used nationwide. An estimated 129 cubic yards (yd³) of lead-impacted soil will be removed from the Mount Gretna TCAR – West MRS over an area of 0.08 acre. The removed soil will be shipped to a secure landfill permitted to accept the lead-contaminated soil that is a RCRA characteristic hazardous waste.

The proposed excavation depth is 12 inches bgs for the 950-yard berm in the Mount Gretna TCAR – West MRS, based on the RI lead soil sampling results. The estimated total volume of excavation is approximately 129 yd³, which includes the estimated volume of soils that could be classified by the lead TCLP concentrations detected during the RI, as a characteristic hazardous waste. Full clearance of trees and brush will be required within the 950-yard berm area, and directly outside

the area to provide access for the excavation equipment, and to create temporary access roads, if necessary, to facilitate soil removal. The excavated soil will be shipped to a secure Subtitle C landfill permitted to accept lead-contaminated soil that qualifies as RCRA characteristic hazardous waste. Confirmatory soil sampling is also included.

Confirmation soil samples will be collected at the base of the excavated area and analyzed for lead to ensure that the remedial action objective for leachable soil is met. Backfill of clean soil will be conducted and the area of the soil removal will be graded to match the surrounding grade. Plantings will be conducted to compensate for the loss of vegetation during site clearing and grubbing.

The following general tasks would be included in Alternative 5:

- Work Plans
- Explosives Safety Submission
- Mobilization/utility clearance
- Site Management
- Survey/positioning
- Brush clearing
- Environmental Monitoring and Protection
- MEC Surface Removal
- MEC Removal to Detection Depth
- Excavation, Loading, and Disposal of Hazardous Soil at a RCRA Subtitle C landfill
- MEC Subsurface Removal
- MPPEH Blown In Place
- Scrap Certification and Disposal
- Site Restoration
- Demobilization
- Final Report

Alternative 5 is designed to contemplate removal of munitions and soil to the greatest extent possible within the MRS to achieve protectiveness without LUCs or LTM following the remedial action. Clearance of MEC and soil removal to meet cleanup goals based on ecological risk and the presence of a RCRA characteristic hazardous waste would allow for unlimited use and unrestricted exposure of the Mount Gretna TCAR - West MRS. Costs for this alternative are expected to be moderate to high (>\$0.5-1.5 million).

SECTION 3

COMMUNITY BACKGROUND

3. COMMUNITY BACKGROUND

The following subsections include a description of the community in the vicinity of the project area and a summary of key community concerns identified to date. Due to previous munitions investigations and response actions at the sites, the community has access to historical information on the site and is familiar with the site and munitions present.

3.1 COMMUNITY PROFILE

The Mount Gretna TCAR – West MRS is located on SGL Number 145 in Lebanon County, in the Borough of Mount Gretna, Pennsylvania. Demographical details for the county and borough, which have been compiled by the U.S. Census Bureau (2012 American Community Survey 5-Year Estimate), are provided in **Table 3-1** through **Table 3-6** to depict the community profile in the vicinity of the MRS. A brief overview of the county and borough with regard to land area, population, and local points of interest is provided following the tables.

Table 3-1

**Demographics Comparison of Site Area Residents – Population, Race, Age
U.S. Census Bureau – 2012-2016 American Community Survey 5-Year Estimates**

	Lebanon County	Borough of Mount Gretna
Population	136,950	240
Race (% of population)		
▪ White	87.9%	100.0%
▪ Black/African American	2.1%	0.0%
▪ America Indian/Alaska Native	0.1%	0.0%
▪ Asian	1.2%	0.0%
▪ Native Hawaiian/Other Pacific Islander	0.0%	0.0%
▪ Some other race	6.5%	0.0%
Hispanic/Latino (of any race)(% of population)	11.7%	0.0%
Median age (years)	41.2	66.7

Table 3-2

**Demographics Comparison of Site Area Residents – Employment
2012-2016 American Community Survey 5-Year Estimates**

	Lebanon County	Borough of Mount Gretna
Employment (Population 16 years and over)	108,801	226
▪ Employed (Civilian labor force)	60.5%	38.1%
▪ Unemployed (Civilian labor force)	4.2%	0.0%
▪ Employed (Armed Forces)	0.2%	0.0%
▪ Not in labor force	35.1%	61.9%

Table 3-3

**Demographics Comparison of Site Area Residents – Occupation
2012-2016 American Community Survey 5-Year Estimates**

	Lebanon County	Borough of Mount Gretna
Occupation (Employed civilian population 16 years and over)	65,807	86
▪ Management, business, science, and arts occupations	29.6%	55.8%
▪ Service occupations	17.9%	11.6%
▪ Sales and office occupations	14.5%	20.9%
▪ Natural resources, construction, and maintenance occupations	9.5%	5.8%
▪ Production, transportation, and material moving occupations	18.4%	5.8%

Table 3-4

**Demographics Comparison of Site Area Residents – Educational Attainment
2012-2016 American Community Survey 5-Year Estimates**

	Lebanon County	Borough of Mount Gretna
Population 25 years and over	93,706	216
▪ Less than 9th grade	4.9%	0.0%
▪ 9th to 12th grade, no diploma	9.1%	0.9%
▪ High school graduate (includes equivalency)	43.3%	7.9%
▪ Some college, no degree	15.8%	7.4%
▪ Associate degree	7.0%	2.3%
▪ Bachelor's degree	12.2%	25.9%
▪ Graduate or professional degree	7.7%	55.6%
▪ High school graduate or higher	86.0%	99.1%
▪ Bachelor's degree or higher	19.9%	81.5%

Table 3-5

**Demographics Comparison of Site Area Residents – Income
2012-2016 American Community Survey 5-Year Estimates**

	Lebanon County	Borough of Mount Gretna
Families	35,822	87
▪ Less than \$10,000	3.6%	0.0%
▪ \$10,000 to \$14,999	2.6%	0.0%
▪ \$15,000 to \$24,999	5.2%	0.0%
▪ \$25,000 to \$34,999	8.1%	0.0%
▪ \$35,000 to \$49,999	13.4%	4.6%
▪ \$50,000 to \$74,999	23.3%	10.3%
▪ \$75,000 to \$99,999	18.5%	13.8%
▪ \$100,000 to \$149,999	17.1%	49.4%
▪ \$150,000 to \$199,999	5.2%	16.1%
▪ \$200,000 or more	3.1%	5.7%
▪ Median family income	\$67,325	\$118,480

Table 3-6

**Demographics Comparison of Site Area Residents – House Value
2012-2016 American Community Survey 5-Year Estimates**

	Lebanon County	Borough of Mount Gretna
House Value (Specified owner-occupied units)	36,350	117
▪ Less than \$50,000	7.2%	0.0%
▪ \$50,000 to \$99,999	11.8%	0.0%
▪ \$100,000 to \$149,999	21.5%	0.0%
▪ \$150,000 to \$199,999	25.7%	13.7%
▪ \$200,000 to \$299,999	22.7%	29.1%
▪ \$300,000 to \$499,999	8.2%	50.4%
▪ \$500,000 to \$999,999	2.2%	6.8%
▪ \$1,000,000 or more	0.7%	0.0%
▪ Median	\$164,900	\$314,400

3.1.1 Lebanon County

Lebanon County is located in the south-central portion of the Commonwealth of Pennsylvania, encompassing 363 square miles (940 square kilometers [km]) and 26 municipalities, including 1 city, 7 boroughs, and 18 townships. As of the 2012-2016 census estimates, Lebanon County's population was 136,950 (U.S. Census, 2016). Lebanon County was first settled in 1723 and created by an Act of Assembly in 1813 from portions of Dauphin and Lancaster Counties. The county is governed by three commissioners who each serve 4-year terms. Lebanon County is located approximately 25 miles east of the state capital of Pennsylvania (Harrisburg).

Lebanon County is bordered to the northeast by Schuylkill County; to the south by Lancaster County; to the northwest by Dauphin County; and to the east by Berks County. Lebanon County is part of the Lebanon Metropolitan Statistical Area and the Harrisburg-Carlisle-Lebanon Combined Statistical Area.

A local businessman, Robert Coleman, owned and operated the Cornwall iron ore mines and furnaces and established the North Lebanon Railroad in 1853, later named the Cornwall Railroad Company, in response to increased demand for iron ore. The railroad line connected the iron ore mines to the Union Canal rail line in Lebanon. By 1883, the rail line was expanded to run from

Lebanon through the Conewago Hills to Elizabethtown, thereby connecting Lebanon to Philadelphia markets for the sale of iron ore. The railroad also operated passenger cars that offered stops at two popular vacation destinations, including Mount Gretna. Robert Coleman was also largely responsible for the creation of the Mount Gretna Training Camp, having invited the PAARNG to encamp at Mount Gretna starting in 1885.

Lebanon County includes six school districts (Annville-Cleona School District, Cornwall-Lebanon School District, Eastern Lebanon County School District, Lebanon School District, Northern Lebanon School District, and Palmyra Area School District) and three institutions of higher education, including Harrisburg Area Community College, Lebanon Valley College, and Evangelical Seminary.

Lebanon County includes one state park: Memorial Lake State Park. This park offers camping, fishing, picnicking, walking/hiking, cross-country skiing, bird watching, and bridle trails. A small portion of the Appalachian Trail traverses east-west through the northern end of Lebanon County.

Major employers in the area include Department of Military and Veteran Affairs, Good Samaritan Hospital, Farmer's Pride Inc., County of Lebanon, Veteran's Administration Hospital, Tyco Electronics, Philhaven Hospital, Weaber Inc., Lebanon City School District, Cornwall-Lebanon School District, Bayer Consumer Care, Ingram Micro, Supreme Mid-Atlantic Corporation, BC Natural Chicken, and Pennfield Farms.

3.1.2 Mount Gretna Borough

Mount Gretna is a borough located adjacent to Conewago Lake in Lebanon County, Pennsylvania. It is part of the Lebanon Metropolitan Statistical Area. As of the 2012-2016 census estimates, the borough had a total population of 240 (U.S. Census, 2016). The Borough of Mount Gretna was established in 1926 and provides civil services for borough residents.

Mount Gretna is bordered by South Londonderry Township to the north, west, and south and West Cornwall Township to the north, east, and south. Mount Gretna is located 32 miles (51.5 km) east of Harrisburg, 9 miles (14.5 km) south of Lebanon, 84 miles (135 km) west of Philadelphia, and 104 miles (167 km) north of Baltimore, Maryland. Land area within the borough is approximately 0.16 square miles.

Conewago Lake borders Mount Gretna to the northwest and Clarence Schock Memorial Park at Governor Dick Hill, which is located east of Mount Gretna. Mount Gretna is governed by a mayor and five borough council members.

The local sites include the following:

- *Mount Gretna Inn* – in Mount Gretna Heights, was built in 1921 by a local entrepreneur and has served as a private home, church camp, and a bar and restaurant before becoming the Mount Gretna Inn.
- *Gretna Theatre* – is one of the only professional theatres in south-central Pennsylvania and one of the oldest theatres in the U.S, with theatrical productions occurring at this location since 1927. The theatre is typically used during the summer season.
- *Mount Gretna Tabernacle* – is an auditorium commissioned in August 1899 and located in the Campmeeting neighborhood. The Tabernacle is used for the annual Mount Gretna Bible Festival. The round auditorium is constructed of chestnut beams with wooden trusses, which draw the eye upward from the central podium.
- *The Jigger Shop* – is a local attraction that has been in the soda fountain business since the early 1900s. The Jigger Shop is located in the heart of Mount Gretna. In addition to a variety of homemade sodas, the Jigger Shop also makes ice cream and syrups.
- *Conewago Lake* – Conewago Lake is not located within Mount Gretna, but is immediately adjacent to the borough line. The Lake is important to the local economy and atmosphere of Mount Gretna. Conewago Lake was formed by damming Conewago Creek, which runs northwest-southeast along the border of South Londonderry Township and Mount Gretna Borough. The lake is a major attraction for the summer tourist season at Mount Gretna.

Mount Gretna is mostly a service-based community, with a mixture of small and local businesses. Reflecting the city's history, many businesses are involved in the arts and popular during the summer tourist season, but closed in the winter months, including the Gretna Theatre and The Jigger Shop.

In general, the area including and surrounding the Mount Gretna TCAR – West MRS is home to numerous recreational and civic organizations and clubs. These groups are well-organized, active, and interested in environmental studies and activities conducted at various locations in south-central Pennsylvania. Groups closest to the site include, but are not limited to, the following organizations:

- Clarence Schock Memorial Park at Governor Dick Hill
- Horse-Shoe Trail Conservancy, Inc.
- Mount Gretna Area Historical Society
- Timber Bridge Homeowners Association

Additional groups in the general area include the following clubs and organizations:

- Appalachian Audubon Society
- Audubon Pennsylvania
- Bluebird Society of Pennsylvania
- Blue Ridge Sportsmen's Club
- Harrisburg Hunters' and Anglers' Association
- Izaak Walton League of America-Lebanon County Chapter
- Keystone Trails Association
- Lebanon County League of Women Voters
- Lebanon County Federation of Sportsmen's Club
- Lebanon Valley Hiking Club
- Middletown Angers and Hunters
- Myerstown Rod & Gun Club
- Palmyra Sportsmen's Association
- Pennsylvania Federation of Sportsmen's Club, Inc.
- Quittapahilla Audubon Society
- Quittapahilla Rod & Gun Club
- Save Stony Valley Coalition
- South Mountain Audubon Society
- Sportsmen Limited
- Stewards of the Lower Susquehanna
- Swatara Creek Watershed Association
- The Manada Conservancy
- The Nature Conservancy, Pennsylvania Field Office
- United Bowhunters of Pennsylvania

3.2 CHRONOLOGY OF AREA COMMUNITY INVOLVEMENT

A public notice was published on June 30, 2011, in the Lebanon *Daily News* newspaper. The public notice announced the *Munitions Response Site Prioritization Protocol* for a number of sites in Pennsylvania, including three other sites in the vicinity of the Mount Gretna TCAR - West MRS. These three sites were part of the site investigation, and were determined to require no further action:

- Mount Gretna Training Camp Machine Gun Range
- Mount Gretna Training Camp Pistol Range
- Mount Gretna Training Camp State Rifle Range

Project technicians contacted site-area property owners regarding field work (August 16, 2011 and August 9, 2011) for the site inspection. To assess community interest in the Mount Gretna TCAR – West MRS environmental activities, questionnaires were prepared and distributed to site-area residents and Mount Gretna and Lebanon County public officials. A fact sheet that provided an overview of the site background and environmental studies process was included in the mailing of the questionnaire. The questionnaires and fact sheets that were mailed out to residents on September 3, 2015 are provided in Appendix E. Addresses on the mailing list were determined by the individual properties located within the MRS and within a 239-foot safety exclusion zone from the MRS boundary. Nine completed surveys were returned to the PAARNG representative. A total

of six responses were received by ARNG-I&E (see responses in the completed questionnaires located in Appendix E. The major areas of concern raised at that time were the potential effects to property values and the extent of contamination and *ordnance*. The six respondents asked to be placed on the project mailing/e-mail site distribution lists to receive information about the Mount Gretna TCAR – West MRS project.

A public notice was published on July 26, 2016, in the Lebanon *Daily News* newspaper to solicit community interest in forming a Restoration Advisory Board (RAB). A RAB is a forum to discuss and exchange information about the DoD environmental restoration program, identify issues of concern, and establish a direct line of communication between DoD, communities, and regulators. One person responded to the public notice.

Technical Project Planning (TPP) meetings were held on June 10, 2015, March 24, 2016, and May 18, 2017 (WESTON, 2017a). No members of the community or property owners attended any of the TPP meetings.

The PP was issued in March 2018. A public notice was published on February 2, 2018, in the Lebanon *Daily News* newspaper to announce the proposed cleanup remedy and dates of the public comment period. The 30-day public comment period was from February 2 to March 3, 2018. No comments were received. No public meeting was held because no comments were received from the public on the PP.

A second public notice was published on May 31, 2018 in the Lebanon *Daily News* newspaper to resolicit community interest in forming a RAB. No one responded to the public notice.

3.3 KEY COMMUNITY CONCERNS

No community interviews were conducted for this CRP based on input received during the initial mailing during the RI phase. However, a CERCLA-required fact sheet is provided in Appendix F for the RD/RA phase. The Technical Project Planning (TPP) meetings will be scheduled and conducted to support the RD/RA throughout the project. TPPs were conducted during the RI/FS phase of the project. The Mount Gretna TCAR – West MRS TPP 1 meeting was held on June 10, 2015. The objective of the meeting was to identify and discuss project expectations and RI approach with the project team members and stakeholders. The TPP 2 meeting was held on March 24, 2016. The

objective of the meeting was to discuss the RI Work Plan approach with the project team members and stakeholders prior to the start of field work. The TPP 3 meeting was held on May 18, 2017. The objective of the meeting was to discuss the results of the RI and to summarize a path forward. Representatives from the ARNG-I&E, PAARNG, Pennsylvania Department of Military and Veterans Affairs, USACE, PADEP, PGC, and WESTON attended the meetings.

Based on past experience conducting RD/RA activities similar to those planned for the Gretna Training Camp Artillery Range West – MRS, the following items are anticipated, but not limited, to be of key concern to the community and stakeholders for the project:

- Prevention of damages to property and restoration measures.
- Protection of wildlife and plant species.
- Protection of regulated wetlands.
- Safety/inconvenience to MRS owner (PGC) and users (recreational public).
- Protection of any culturally or archeological significant features that may be encountered.
- Maintenance of the project schedule and communication of potential impacts/delays.
- Ensuring public information is maintained current and accessible as work progresses.

All concerns that are identified will be addressed in a timely manner either through real-time coordination and agreements reached by all entities at a TPP meeting or through follow-on action items documented in the meeting minutes. The minutes from the TPP meetings will be provided with project work plans and post-remediation reports that are completed and will be available for public review at the project information repository and included in the administrative record file.

Three TPP meetings for the RD/RA are planned as (1) a meeting to review remedial action objectives and the RD, (2) a second meeting following completion of the RA, and (3) an additional meeting to discuss *Remedy in Place and Remedy Complete* (RIP/RC) closure if needed.

SECTION 4

COMMUNITY RELATIONS PROGRAM

4. COMMUNITY RELATIONS PROGRAM

Community relations objectives and activities have been developed to encourage public awareness and understanding of the RD/RA at the Mount Gretna TCAR – West MRS. The ARNG-I&E, PAARNG, and USACE program for community relations is intended to ensure that local officials and interested persons are informed about activities taking place at the Mount Gretna TCAR – West MRS and have opportunities to provide input and ask questions about the investigation. To be effective, the community relations program must be formulated according to the community's need for information, and its interest, and willingness to participate during the RD/RA process.

The overall goal of a community relations program is to promote two-way communication between the community and ARNG-I&E, PAARNG, and USACE and to provide opportunities for meaningful and active involvement by the community during the environmental investigation of the Mount Gretna TCAR – West MRS. The following community relations program presents communication tools and techniques.

4.1 KEEP THE PUBLIC INFORMED AND UP TO DATE

Public communication needs are being established and will be re-evaluated and updated throughout project execution. The following paragraphs discuss specific points of communication that will be relied on during the RD/RA as part of the community relations program at the Mount Gretna TCAR – West MRS.

4.1.1 Designate a Spokesperson for the Project

Objective – Provide primary contact(s) for the public to communicate with ARNG-I&E, PAARNG, and USACE, and to ensure prompt, accurate, and consistent responses and information dissemination about the MRS.

Method – The Army has assigned ARNG-I&E Project Manager David Connolly for the RD/RA at the Mount Gretna TCAR – West MRS. David Connolly is the primary point of contact; however, additional ARNG-I&E, PAARNG, USACE, and WESTON personnel will be available to assist in disseminating project information to the public and news media as needed, and when delegated to by David Connolly. LTC Keith Hickox is the assigned State Public Affairs Officer for PAARNG and will assist David Connolly as needed. LTC Keith Hickox (PAARNG) has been assigned as the primary point of contact for community inquiries. It is paramount that the WESTON Project

Manager keeps David Connolly and LTC Keith Hickox informed of project schedule updates, technical procedures used, revisions to the process, any remedial decisions, and public relations activities.

LTC Keith Hickox will be the primary contact for the public and the news media regarding activities at the site. He and his staff will be prepared to respond to public and news media inquiries. If needed, technical personnel will be available to assist in explaining the RD/RA and overall CERCLA process, including potential response actions that may be considered for the Mount Gretna TCAR – West MRS.

Contact information for David Connolly and LTC Keith Hickox is provided in Appendix D.

Timing – David Connolly (ARNG-I&E) will remain the point of contact for community outreach activities throughout the duration of the RD/RA. LTC Keith Hickox will be copied on all community outreach.

4.1.2 Maintain Contact with Key Local Officials and Community

Objective – Identify and assess public perception of the RD/RA activities at the MRS and the work being done by ARNG-I&E, PAARNG, USACE and its contractor, WESTON.

Method – Upon completion of the RD, the PAARNG will (through the PAARNG Legislative Liaison Office) inform key local officials, the property owner/users, and nearby residents of the upcoming environmental activities, solicit their perceptions, and introduce them to the Army project team personnel. It is essential that key persons be regularly and fully informed of the MRS activities, findings, and developments.

Additionally, the Army relies on the TPP process to ensure stakeholder participation is encouraged and meaningful as work progresses. The minutes from the TPP meetings will be provided with project work plans and investigation reports that are completed and will be available for public review at the project information repository.

Timing – ARNG-I&E, PAARNG, USACE, and WESTON will organize additional meetings with key local officials, PADEP, PGC, and the affected community that lives or works in the vicinity of the MRS.

4.1.3 Maintain Project Information Repository

Objective – Provide a convenient location (project information repository) where the community can go to read and photocopy official technical documents and other pertinent information about the RD/RA. A project information repository has been established and the location is referenced in Appendix B. Also provided in the project information repository will be a copy of the administrative record file, which is an official record of technical documentation prepared to support the remedial action selected for the MRS.

Method – The information repository is a reference collection of site information, including the following technical documents: Work Plan, Site Safety and Health Plan, Quality Assurance Project Plan, CRP, RI Report, FS Report, PP, ROD, and any public information materials (e.g., public releases, news articles, doorknob hangers/fact sheet hand-outs) that are prepared for the MRS. The administrative record file contains the documents used to make the decision about the selection of a remedial action. Documents in the administrative record file include, but are not limited to, the final RI report, final FS, final PP, and final ROD. The administrative record file for the Mount Gretna TCAR – West MRS is maintained by PAARNG on their project website at: <http://www.dmva.pa.gov/dmvaoffices/Environmental-Resources/Pages/Mt--Gretna-Training-Camp-Artillery-Range-West-Munitions-Response-Site.aspx#>. In addition, a complete file of all technical documents is available at the following location:

Annville Free Library
216 East Main Street
Annville, PA 17003

The information repository and administrative record file is accessible to the physically challenged, has photocopier facilities, and is available to the public during normal business hours. Additional information on the administrative record file location and suggested project information repository are provided in Appendix B. Contact information for PAARNG is located in Appendix D.

Timing – Documents will be provided to the repositories in hard copy and/or electronic disk (if applicable) by electronic mail, mail, or via courier with periodic inspections performed by the Army and its contractor to ensure that the files are maintained.

4.1.4 Prepare and Issue News Releases

Objective – Inform the public at-large of technical accomplishments at the site.

Method – Prepared statements will be released to local newspapers, and if a request is made, to radio and television stations to announce site activities. News releases will be e-mailed to the media list provided in Appendix D and placed in the project information repository.

Timing –Preparing news releases is an on-going task, the need for which will be continually assessed based on findings during the RD/RA and as remedial decisions are made.

4.1.5 Prepare and Distribute Fact Sheets

Objective – Provide local officials, community leaders, residents, and other interested parties with current, accurate, easy-to-read, and easy-to-understand information about the RD/RA.

Method – A fact sheet will be prepared at the completion of the RD. The fact sheet will summarize the upcoming RA process.

Timing – Fact sheets will be mailed to all interested parties that are identified when the RD is completed and as work progresses through the TPP process and interaction with local officials. In addition, copies of the fact sheet will be placed in the information repository and maintained for public distribution on-site during activities.

4.1.6 Maintain Projects Mailing List

Objective – Facilitate the distribution of site-specific information to persons who need or want to be kept informed about the RD/RA.

Method – Develop a mailing list and an e-mail distribution list for the property owner/users, nearby residents, interested persons, and elected/appointed officials.

Timing – This list will be maintained and updated through various interactions with the public throughout the RD/RA.

4.2 PROVIDE OPPORTUNITIES FOR PUBLIC INVOLVEMENT

4.2.1 Assess Public Interest in Forming a Restoration Advisory Board or Community Interest Group at Mount Gretna TCAR – West MRS

Objective – To ensure local residents have a meaningful way to become involved, and to provide ARNG-I&E, PAARNG, USACE, PGC, and WESTON personnel with a viable means of learning citizens’ concerns, perceptions, ideas, and information regarding the area if significant and sustained community interest is generated.

Method – On July 26, 2016 and on May 31, 2018, public notices were published in the Lebanon *Daily News* to solicit community interest in forming a RAB for Mount Gretna TCAR – West MRS. Because a RAB has not been formed; additional periodic assessments of the public’s level of interest to form a RAB at the site will be performed. The public will be informed about the requirements and commitment associated with RABs. ARNG-I&E, PAARNG, USACE, and WESTON will be open to an alternative in lieu of a formal RAB, which may include a site-specific community interest group. The flexibility of a relatively short-term, site-specific community interest group may be an alternative the public prefers. The site-specific community interest group would meet informally with ARNG-I&E, PAARNG, USACE, PGC, and WESTON for the duration of the RD/RA. If the level of community interest increases significantly, a RAB may be formed.

4.2.2 Hold Public Meeting(s)/Open House(s)

Objective – Provide information to the community regarding RD/RA activities and address community questions, concerns, ideas, and comments.

Method – ARNG-I&E, PAARNG, and USACE will identify a location for public meetings (if necessary) and will schedule, prepare for, and participate in all announced public meetings. The format of public meetings may be in the traditional theatre-style, as an open house, or as a workshop. Organizers of the public meeting will provide at least 2 weeks’ notice to the public before each meeting.

Timing –Public meetings may occur at any point during the RD/RA and are designed to be a flexible option within the community relations program to adapt to the presentation of the RD and any subsequent RA activities.

4.3 TIME FRAME SUMMARY FOR COMMUNITY INVOLVEMENT ACTIVITIES

Figure 4-1

Time Frame for Community Involvement Activities

Activity	Prior to Remedial Design (October 2018 – February 2019)	Remedial Design (March 2019-November 2019)	Remedial Action (December 2019 – May 2020)	Post Remedial Action (May 2020– May 2021)
Finalize Community Relations Plan	■	■		
Designate project spokesperson	■			
Maintain contact with key local officials and residents	■	■	■	■
Maintain information repository	■	■	■	■
Publish public notices (i.e., signing of ROD and public briefing for RD)	■	■		
Assess community interest for a RAB	■			■
Issue news release(s), as needed	■	■	■	■
Prepare/distribute RD fact sheet		■		
Update project mailing list	■	■	■	■
Hold public meeting/open house, as needed (e.g., TPP meetings)	■	■		■

SECTION 5

REFERENCES

5. REFERENCES

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APPENDIX A

GLOSSARY

APPENDIX A – GLOSSARY

3-inch Stokes mortars The 3-inch Stokes mortar is also called a trench mortar. Depending on the type of mortar, the filler will either be trinitrotoluene (TNT), black powder, or sand. This type of mortar is fired from a barrel at a steep angle so it will fall straight down on the target. The 3-inch Stokes mortar was mostly used during World War I (1914-1918) and until World War II (1939).

administrative record The body of documents that “forms the basis” for the selection of a particular response at a site. Documents that are included are relevant documents that were relied upon in selecting the response action and relevant documents that were considered but were ultimately rejected. This body is officially referred to as the “administrative record file” until a remedial action is selected and established in the ROD, upon which time the file becomes the Administrative Record for the site.

Community Relations Plan (CRP) The CRP serves as the framework to establish a successful information exchange with the public during the environmental restoration process. The CRP follows guidelines set forth under CERCLA and Superfund Amendments and Reauthorization Act. Each plan must be tailored to fit the individual site and situation. The CRP is not a static document and should be revised to reflect the development and progress of actions at the project.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Congress enacted CERCLA, commonly known as Superfund, on December 11, 1980. This law created a tax on the chemical and petroleum industries and provided broad federal authority to respond directly to releases or threatened releases of hazardous substances that may endanger public health or the environment.

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

feasibility study (FS)	An evaluation of viable technologies and treatment options that can be used to clean up a site. These technologies and treatment options are assembled into a number of different cleanup alternatives that are evaluated using the nine CERCLA/National Oil and Hazardous Substances Pollution Contingency Plan criteria. The overall purpose of the FS is to provide the analysis to identify a preferred cleanup alternative in the Proposed Plan.
Human Health Risk Assessment	An evaluation of the carcinogenic and non-carcinogenic risks presented by contaminants at a site for current and potential future property uses.
information repository	A repository, generally located at libraries or other publicly accessible locations in or near the community affected by an environmental project, which contains accurate and up-to-date documents reflecting the ongoing environmental restoration activities. For the Mount Gretna TCAR – West MRS, the project information repository will contain a duplicate version of the administrative record file.
land use controls	Land use controls are any type of physical, legal, or administrative mechanism that restricts the use of or limits access to real property to prevent or reduce risks to human health and the environment.
lead	One of the elements, a heavy, pliable, inelastic metal, having a bright, bluish color, but easily tarnished. Lead is used for tubes, sheets, bullets, etc., and is easily fusible and forms alloys with other metals, and is an ingredient of solder and type metal.
magnetometer	A magnetometer is an instrument that can detect metal objects buried underground.

military munitions	All ammunition products and components produced for or used by the armed forces for national defense and security, including ammunition products or components under the control of the Department of Defense, the Coast Guard, the Department of Energy, and the National Guard. The term includes confined gaseous, liquid, and solid propellants; explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries, including bulk explosives, and chemical warfare agents; chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges; and devices and components thereof. The term does not include wholly inert items; improvised explosive devices; and nuclear weapons, nuclear devices, and nuclear components, other than nonnuclear components of nuclear devices that are managed under the nuclear weapons program of the Department of Energy after all required sanitization operations under the Atomic Energy Act of 1954 (42 USC 2011 et seq.) have been completed. (10 USC 101(e)(4)(A) through (C)).
Military Munitions Response Program (MMRP)	The U.S Congress established the MMRP under the Defense Environmental Restoration Program to address unexploded ordnance, discarded military munitions, and munitions constituents located on current and former defense sites. MMRP eligible sites include, other than operational ranges, where unexploded ordnance, discarded military munitions, or munitions constituents are known or suspected. Properties classified as operational military ranges, permitted munitions disposal facilities, or operating munitions storage facilities are not eligible for the MMRP.
munitions and explosives of concern (MEC)	This term, which distinguishes specific categories of military munitions that may pose unique explosives safety risks, means unexploded ordnance, discarded military munitions, or munitions constituents (e.g., TNT, RDX) that are present in high enough concentrations to pose an explosive hazard.
munitions constituents (MC)	Includes any material originated from unexploded ordnance, discarded military munitions, or other military munitions, including explosive and nonexplosive materials, and emission, degradation, or breakdown elements of ordnance or munitions.
munitions response site (MRS)	A discrete location within a munitions response area that is known to require a munitions response.

Munitions Response Site Prioritization Protocol	A tool adopted by the Department of Defense (DoD) to assign a relative priority for munitions responses to each location in the DoD’s inventory of defense sites known or suspected of containing unexploded ordnance, discarded military munitions, or munitions constituents.
National Oil and Hazardous Substances Pollutions Contingency Plan (NCP)	<p>The National Oil and Hazardous Substances Pollution Contingency Plan, more commonly called the National Contingency Plan or NCP, is the federal government’s blueprint for responding to both oil spills and hazardous substances releases. The National Contingency Plan is the result of the United States’ efforts to develop a national response capability and promote overall coordination among the hierarchy of responders and contingency plans.</p> <p>The first National Contingency Plan was developed and published in 1968 in response to a massive oil spill, but it has been broadened substantially over the years to keep pace with the enactment of legislation, most notably the Superfund legislation of 1980.</p>
No observed adverse effect level	The NOAEL is the highest dosage level at which chronic exposure to the substance shows no adverse effects on tested animals.
ordnance	Explosives, chemicals, pyrotechnics, and similar stores. Examples of ordnance are bombs, guns and ammunition, flares, smoke, or napalm.
proposed plan (PP)	The proposed plan is a supplement of the remedial investigation/feasibility study (RI/FS) and provides the public with the cleanup alternatives considered, the preferred alternative that meets the requirements of CERCLA, and an opportunity for the public to comment on the alternatives and participate in the selection of the remedial action.
range fans	A designated area of land in the shape of a fan that is set aside, managed, and used for firing activities of the Department of Defense.
record of decision	The record of decision (i.e., decision document) is a public document that explains which alternatives will be used to clean up a Superfund site. The record of decision is created from information generated during the RI/FS.

remedial action	Those actions consistent with the permanent remedy taken in the event of a release or a threatened release of a hazardous substance into the environment, to prevent or minimize the release of hazardous substances so that they do not migrate to cause substantial danger to present or future public health, welfare, or the environment.
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Remedial Action Alternative (RAA)	A technology or process option that represents a viable approach to remedial action for a site that has been evaluated in a screening stage.
<hr/>	
remedial design	A phase of remedial action that follows the RI/FS and includes development of engineering drawings and specification for a site cleanup.
<hr/>	
remedial investigation (RI)	An in-depth study, designed to gather the data necessary to determine the nature and extent of known contamination at a site, assess risk to human health and the environment, and establish criteria for cleaning up the site.
<hr/>	
responsiveness summary	A formal written summary and response by the lead agency to public questions and comments. A responsiveness summary is prepared following a public meeting and public comment period about a proposed plan. The responsiveness summary may list and respond to each question, or summarize and respond to questions in categories.
<hr/>	
Screening level ecological risk assessment (SLERA)	The SLERA process is a simplified risk assessment that can be conducted with limited data where site-specific information is lacking; assuming values should consistently be biased in the direction of overestimating risk. The need for conservatism is to provide a defensible conclusion that negligible ecological risk exists or that certain contaminants and exposure pathways can be eliminated from consideration. The SLERA is generally meant to be a simple desktop analysis to eliminate substances or even sites from further consideration. This occurs through a relatively cost/time efficient effort that requires very limited data from the site and relies heavily on other (e.g., literature) information.

Superfund	The commonly used term that describes the federal legislation authorizing the U.S. Environmental Protection Agency to investigate and respond to the release or threatened release of hazardous substances to the environment. The Superfund program outlines specific steps and actions for conducting a response to a release. The official term for Superfund is the CERCLA. In 1986, Superfund was reauthorized as the Superfund Amendments and Reauthorization Act.
Superfund Amendments and Reauthorization Act (SARA)	Enacted in 1986, this legislation establishes standards for cleanup activities, requires federal facility compliance with CERCLA, and clarifies public involvement requirements.
unexploded ordnance (UXO)	Includes military munitions that have been primed, fused, armed, or otherwise prepared for action; have been fired, dropped, launched, projected, or placed in manner that constitutes a hazard to operations, installation, personnel, or material; and remain unexploded either by malfunction, design, or any other cause.

APPENDIX B

**LOCATIONS OF INFORMATION
REPOSITORY/ADMINISTRATIVE RECORD**

APPENDIX B – LOCATIONS FOR INFORMATION REPOSITORY/ADMINISTRATIVE RECORD

ADMINISTRATIVE RECORD FILE LOCATION

Primary Location: Pennsylvania Department of Military and Veterans Affairs
Website: <http://www.dmva.pa.gov/dmvaoffices/Environmental-Resources/Pages/Mt--Gretna-Training-Camp-Artillery-Range-West-Munitions-Response-Site.aspx#>

Secondary Location: Annville Free Library
216 East Main Street
Annville, PA
(717) 867-1802
Dee Neff, Library Director
E-mail: dln@lclibs.org
Website: <http://lclibs.org/annville>

Hours:
Monday – Thursday: 10 a.m. – 8 p.m.
Friday: 10 a.m. – 5 p.m.
Saturday: 10 a.m. – 5 p.m.

PROJECT INFORMATION REPOSITORY LOCATION

Annville Free Library
216 East Main Street
Annville, PA
(717) 867-1802
Dee Neff, Library Director
Website: <http://lclibs.org/annville>
E-mail: dln@lclibs.org

Hours:
Monday – Thursday: 10 a.m. – 8 p.m.
Friday: 10 a.m. – 5 p.m.
Saturday: 10 a.m. – 5 p.m.

APPENDIX C

SUGGESTED LOCATION FOR PUBLIC MEETINGS

APPENDIX C –SUGGESTED LOCATION FOR PUBLIC MEETINGS

SUGGESTED PUBLIC MEETING LOCATION

Social Hall
Mount Gretna Community
Volunteer Fire Company
41 Boulevard Avenue
Mount Gretna, PA 17064

Point of contact: Joseph Shay: (717) 964-1106

APPENDIX D

KEY CONTACTS

APPENDIX D – KEY CONTACTS

D.1 FEDERAL AGENCY PROJECT REPRESENTATIVES

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Southeast Region
2001 Elmerton Avenue
Harrisburg, PA 17110

Steven Bernardi (POC) (610) 926-3136
Land Management Supervisor E-mail: sbernardi@pa.gov
Pennsylvania Game Commission
Southeast Region
2001 Elmerton Avenue
Harrisburg, PA 17110

Claudia Hacker
Project Manager
Department of Environmental Protection
Division of Brownsfields and Inside Remediation
Rachel Carson State Office Building, 14th Fl.
400 Market Street
Harrisburg, PA 17101

(717) 787-6249
E-mail: chacker@pa.gov

D.3 WESTON SOLUTIONS, INC. PROJECT REPRESENTATIVES

John Gerhard, PMP
Program Manager
Weston Solutions, Inc.
1400 Weston Way, Building 4-2
P.O. Box 2653
West Chester, PA 19380

(601) 701-3793
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Christopher Kane, PMP
Project Manager
Weston Solutions, Inc.
45 Constitution Ave., Suite 100
Concord, NH 03301

(603) 656-5428
Fax: (603) 656-5401
E-mail: C.Kane@westonsolutions.com

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1400 Weston Way, Building 5-2
P.O. Box 2653
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(610) 701-3425
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Weston Solutions, Inc.
1400 Weston Way, Building 5-2
P.O. Box 2653
West Chester, PA 19380

(610) 701-3913
E-mail: Deborah.Volkmer@westonsolutions.com

D.4 FEDERAL ELECTED OFFICIALS

Robert P. Casey, Jr. (202) 224-6324
U.S. Senator Toll Free: (866) 802-2833
393 Russell Senate Office Building Fax: (202) 228-0604
Washington, DC 20510 Website: <http://www.casey.senate.gov/contact/>
District Office: (717) 231-7540
200 N. Third Street, Suite 14A Toll Free: (866) 461-9159
Harrisburg, PA 17101 Fax: (717) 231-7542

Patrick J. Toomey (202) 224-4254
U.S. Senator Fax: (202) 228-0284
284 Russell Senate Office Building Website: <http://www.toomey.senate.gov>
Washington, DC 20510
District Office: (717) 782-3951
U.S. Federal Building Fax: (717) 782-4920
228 Walnut Street, Suite 1104
Harrisburg, PA 17101

Dan Meuser (202) 225-2431
U.S. Representative Website: <https://meuser.house.gov/>
326 Cannon House Office Building
Washington, DC 20515
District Office:
121 Progress Avenue
Suite 110, Losch Plaza
Pottsville, PA 17901

D.5 STATE ELECTED OFFICIALS

Tom Wolf (717) 787-2500
Governor, Commonwealth of Pennsylvania Fax: (717) 772-8284
Pennsylvania Office of the Governor E-mail Contact Form:
508 Main Capitol Building <https://governor.pa.gov/contact>
Harrisburg, PA 17120

Senator Mike Folmer (717) 787-5708
Senate Box 203048 (877) 222-1897
Room: 170 Main Capitol Fax: (717) 787-3455
Harrisburg, PA 17120-3048
District Office: (717) 274-6735
400 S. 8th Street Fax: (717) 274-7702
101 Municipal Building
Lebanon, PA 17042

Representative Francis Ryan
149A East Wing
PO Box 202101
Harrisburg, PA 17120-2101

(717) 783-1815
Fax: (717) 782-2937

District Office:
1044 E. Main Street
Palmyra, PA 17078

(717) 838-3823
Fax: (717) 832-8194

D.6 LEBANON COUNTY OFFICIALS

Jamie A. Wolgemuth
Lebanon County Administrator
Lebanon County Municipal Building
400 South 8th Street
Lebanon, PA 17042

(717) 228-4427
Fax: (717) 274-8094
jwolgemuth@lebcnty.org

William E. Ames, Chairman
Robert J. Phillips, Vice Chairman
Jo Ellen Litz, Secretary
Lebanon County Commissioner
Room 207, Municipal Building
400 South 8th Street
Lebanon, PA 17042

bames@lebcnty.org (717) 228-4427
rphillips@lebcnty.org Fax: (717) 274-8094
jlitz@lebcnty.org

D.7 MOUNT GREтна BOROUGH

Joseph Shay, Mayor	(717) 964-3270
Virginia Minnich, Council President	Fax: (717) 964-3054
William Kleinfelter, Council Vice President	24-hour emergency number: (717) 964-3231
Michael E. Bell, Council Member	MtGretnaBoro@comcast.net
Allan Feldman, Council Member	
Lois Herr, Council Member	

Mount Gretna Borough
101 Chautauqua Drive
PO Box 61
Mount Gretna, PA 17064

Brad Yeingst	(717) 964-3511
Fire Chief	Fax: (413) 594-1645
Mount Gretna Volunteer Fire Department	president@mtgretnafire.com
41 Boulevard Avenue	
PO Box 177	
Mount Gretna, PA 17064	

Bruce D. Harris	(717) 274-2071
Chief of Police	bharris@cornwallpd.org
Cornwall Borough Police Department	
(responsible for Mount Gretna Borough)	
36 Burd Coleman Road	
PO Box 667	
Cornwall, PA 17016	

D.8 NEWS MEDIA

Lebanon <i>Daily News</i>	(717) 272-5611
718 Poplar St.	Website: http://www.ldnews.com
Lebanon, PA 17042	

<i>The Mt. Gretna Newsletter</i>	Robert Groce E-mail: rtgroce@hotmail.com
	Back Issues Website: http://news.mtgretna.com

WHTM-TV (Channel 27 – ABC)	Website: http://www.abc27.com/
Harrisburg, PA	

WGAL (Channel 8)	Website: http://www.wgal.com
Lancaster, PA	

WHP CBS (Channel 21)
Harrisburg, PA

Website: <http://www.local21news.com>

WPMT Fox (Channel 43)
York, PA

Website: <http://www.news@fox43.com>

WQIC (100.1 FM)
Lebanon, PA

Website: http://www.radio.gjoy24.com/online/WQIC_100.1

WLBR (1270 AM)
Lebanon, PA

Website: http://www.radio.gjoy24.com/online/WLBR_1270

D.9 LOCAL ORGANIZATIONS

Clarence Schock Memorial Park at Governor Dick
Friends of Governor Dick
PO Box 212
Mount Gretna, PA 17064

E-mail: friends@govenordick.com

Horse-Shoe Trail Conservancy, Inc.
P.O. Box 2226
Southeastern, PA 19399

Website: <http://www.hstrail.org>

Mount Gretna Area Historical Society
P.O. Box 362
206 Pennsylvania Avenue
Mount Gretna, PA 17064

(717) 964-1105

E-mail: info@mtgretnahistory.org

Website: <http://www.mtgretnahistory.org>

Timber Bridge Homeowners Association

E-mail: timberbridgehoa@gmail.com

APPENDIX E

**QUESTIONNAIRES/RESPONSES AND FACT SHEET
(3 SEPTEMBER 2015 MAILING)**



September 1, 2015

Fact Sheet:
Military Munitions Response Program
Remedial Investigation/Feasibility Study
For Mount Gretna Range Munitions Response Site
Mount Gretna, Pennsylvania

Mount Gretna Range Munitions Response Site Background

The official name of the site is the Mount Gretna Training Camp Artillery Range West Munitions Response Site (MRS). The MRS is located in Lebanon County in Mount Gretna, Pennsylvania.

The MRS is largely undeveloped forested land, being utilized by the game commission for timber harvesting and recreation. The Conewago Creek traverses the MRS in the north. This MRS is designated as a Supporting Landscape or Core Habitat that maintains vital ecological processes or secondary habitat for sensitive natural features that may be able to accommodate some types of low-impact activities. There are several groundwater wells, one of which is a domestic supply well.

In the northern portion of the MRS where the suspected firing point for the range was located, several public roadways, including Rte. 117, and existing buildings are present. Conewago Lake is located to the northeast of the MRS within the borough of Mount Gretna. The MRS is a Non-Department of Defense, Non-Operational Defense Site.

The MRS was used by the Pennsylvania Army National Guard for small arms and artillery training between 1885 and 1941 (estimated). Previous environmental studies at the range included the following activities:

- 2009 – A Non-Department of Defense, Non-Operational Defense Site Inventory Report was completed for the Commonwealth of Pennsylvania, which identified the MRS currently under state ownership and managed by the Pennsylvania Game Commission (State Game Lands 211).
• 2012 – Site inspection completed. Based on the results of the site inspection, the MRS was divided into separate the east-west range from the north-south range where munitions

Site Background, continued on page 2.

Basic Process for Environmental Study and Actions

The Army National Guard follows the process that is described in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, and as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The following steps provide a brief description of the process of the Acts and NCP:

1. Scoping: Review available information, conduct a site inspection, and begin forming ideas on how to conduct the remedial investigation/feasibility study.
2. Community relations: Document community relations activities in a community relations plan and establish an administrative record.
3. Remedial investigation/feasibility study: Conduct site investigation and develop and evaluate remedial alternatives.
4. Proposed plan: Describe the remedial alternatives and discuss the rationale supporting the preferred alternative. There will be a 30-day public comment period and an opportunity for a public meeting.
5. Record of decision: Consider public comments, provide a summary of comments and responses, and document the selected alternative.
6. Remedial design/remedial action: Implement the selected remedial action.

MRS Remedial Investigation/Feasibility Study Approach

To plan for the remedial investigation field work, the historical information, site observations, and analytical data compiled during the site inspection are being evaluated in addition to historical photographs and current aerial imagery. The locations of potential munitions and explosives of concern and munitions debris are not known within this MRS, however, there have been multiple munitions items identified and removed by either the Pennsylvania State Police or trained Explosives and Ordnance Disposal teams between 2012 and 2014. Additional munitions and explosives of concern and munitions debris are likely to be located primarily within the former operational range.

To conduct the remedial investigation, the U.S. Army Corps of Engineers and its contractor will conduct geophysical surveys, followed by intrusive investigations by qualified unexploded ordnance technicians. Controlled on-site detonations may be performed as needed. Project activities also include collecting samples to assess potential munitions constituent risks to public health and the environment. The results of the remedial investigation will be used to determine what, if any, further response actions are warranted at this MRS. If needed, a feasibility study will be performed that evaluates potential remedial alternatives and identifies the most appropriate option for the MRS.

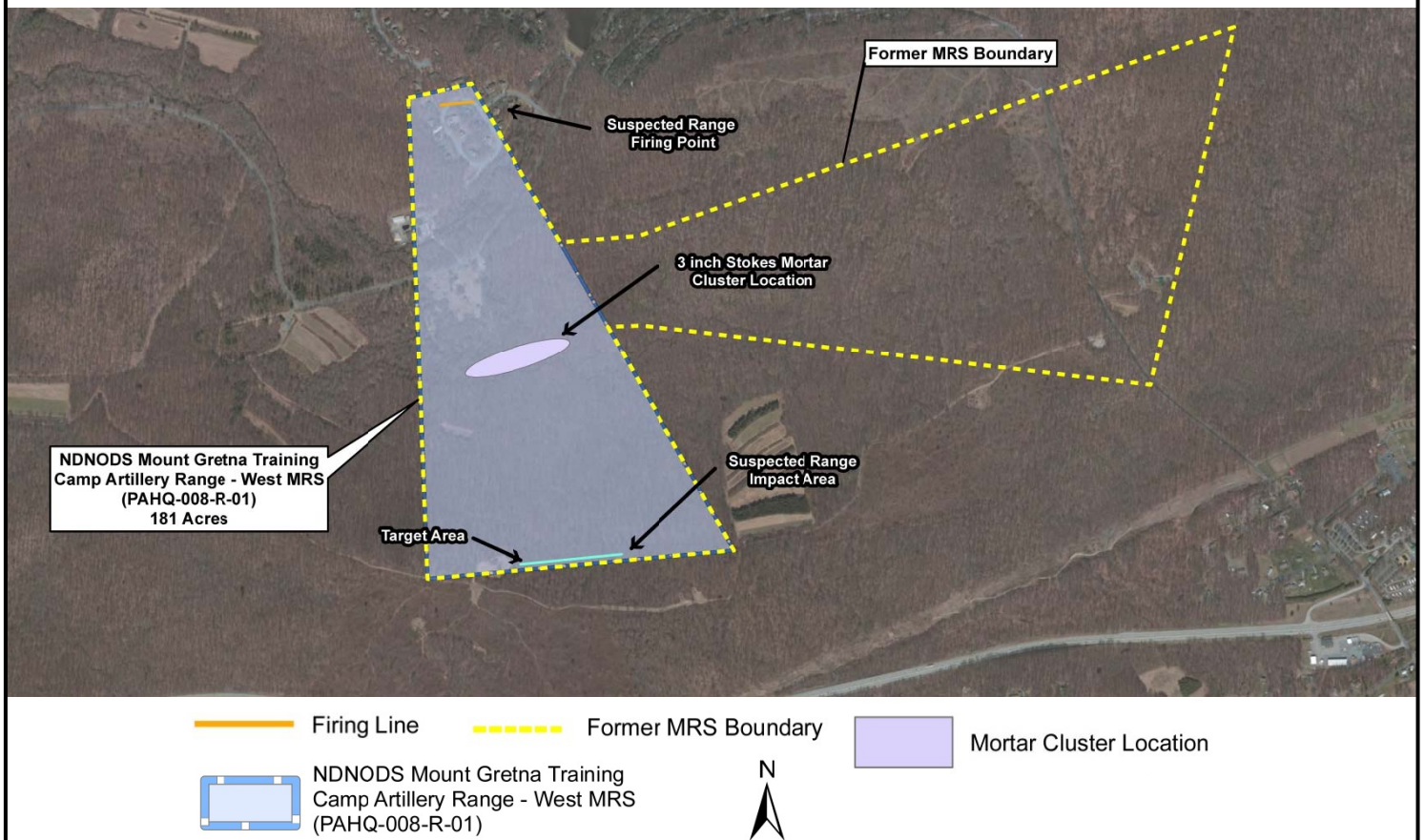
The path forward for the MRS that is recommended by the Army National Guard will be documented in a proposed plan, with a public meeting scheduled to address community concerns. A 30-day comment period will be established to afford the public and regulators adequate time to review and submit comments for consideration by the Army National Guard. The final selected remedy will be documented in a decision document, which will include a summary of community and/or regulatory concerns received and responses from the Army National Guard. All work conducted by the Army National Guard on this MRS is being performed in accordance with CERCLA, as amended by SARA, and the NCP.

Project Information Repositories

All documents prepared for the Mount Gretna Training Camp Artillery Range West MRS are available to the public at the following locations:

- Pennsylvania Army National Guard
Fort Indiantown Gap, Bldg 0-11
Annville, Pennsylvania 17003
http://www.dmva.pa.gov
Annville Free Library
216 East Main Street
Annville, Pennsylvania 17003

Mount Gretna Training Camp Artillery Range West Munitions Response Site



Site Background, continued

and explosives of concern, munitions constituents (chemical and substances), and small arms ammunition were detected. Therefore, the acreage was revised to 181 acres, and the MRS was recommended to proceed to the remedial investigation phase to assess munitions and explosives of concern and munitions constituents.

Remedial Investigation and Feasibility Study Documents

Specific documents are prepared to address issues that relate to the entire MRS remedial investigation and feasibility study process. They are:

Work Plan: Provides the overall framework for the site remedial investigation/feasibility study. It includes an initial evaluation of available site-related information, conceptual models, data quality objectives for the remedial investigation, describes the approach and methodologies to be used for characterization, and details the tasks to be completed.

Literature Review: An extensive search and review of historical

information related to the use of munitions at the MRS, including previous archive searches, training maps, aerial photographs, range control files, newspaper articles, and interviews, was conducted. Literature review identifies areas with no evidence of past munitions use, areas where past munitions use is known or suspected, and areas of potential concern where more information is needed.

Sampling and Analysis Plan: This plan will lay out the field and analytical sampling methods, procedures, and data processing activities that will be performed to meet the data quality

objectives established for the remedial investigation.

Health and Safety Plan: Various contractors must have health and safety plans to perform project work that identifies safe worker practices and maintains safe working conditions.

Community Relations Plan: The Community Relations Plan describes the community relations activities to support the environmental cleanup program at the MRS, and to comply with the community involvement requirements of the NCP.



Recognize. Understand you may have encountered a munition.

Retreat. Do not touch, move, or disturb it; but carefully leave the area.

Report. Immediately notify the police. Call 911 and report the location and description of the item. When possible, provide its estimated size, shape, and any visible markings, including coloring.

For More Information

For more information regarding the Mount Gretna Training Camp Artillery Range West MRS and remedial investigation and feasibility study process please contact:

John D. Fronko Director
PA Department of Military and Veterans Affairs
Bureau of Environmental Management
Fort Indiantown Gap, Building 0-11
Annville, PA 17003

Public Affairs Office: (717) 861-8829
jfronko@pa.gov

**Army National Guard Directorate and U.S. Army Corps of Engineers
Military Munitions Response Program at
Mount Gretna Training Camp Artillery Range West Munitions Response Site
Community Interviews Questionnaire
September 2015**

Name: [REDACTED]

Affiliation: [REDACTED]

Address: [REDACTED]

City, State, Zip: [REDACTED]

Home Phone: [REDACTED]

Work Phone: [REDACTED]

Instructions to complete the questionnaire: Thank you for taking time to read the information and questionnaire. Please consider the questions and provide your responses. Use the lines provided to write your response or use a separate sheet of paper if you need more space. **Please write clearly.** You may provide your responses to Mr. John D. Fronko, PA Department of Military and Veterans Affairs, Bureau of Environmental Management, Fort Indiantown Gap, Building 0-11, Annville, PA 1703 or e-mail at jfronko@pa.gov. If you e-mail or use a separate sheet of paper for your responses, **please make sure your response corresponds to the correct question number.** If you have any questions regarding this questionnaire, please contact the Public Affairs Office at 717-861-8829 or through e-mail at the address provided. Please e-mail or mail your completed questionnaire in the envelope provided no later than September 22, 2015.

1. A remedial investigation/feasibility study is being conducted at Mount Gretna Training Camp Artillery Range West Munitions Response Site in State Game Lands 145, near Mount Gretna, Pennsylvania. The range is a Non-Department of Defense owned, Non-Operational Defense Site. Have you heard about the Military Munitions Response Program study at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? If so, do you remember when and how you learned of it?

YES, I HEARD OF THIS IN CASUAL CONVERSATIONS

2. Have you talked with any representatives of the Army Corps of Engineers, the Pennsylvania Army National Guard or the Army National Guard Directorate, and state or environmental officials about the ongoing Mount Gretna Training Camp Artillery Range West Munitions Response Site remedial investigation/feasibility study? (circle one)
Yes No

3. If you have, were they responsive to your concerns or questions? Do you feel that the Army is a credible and trustworthy source of information?

N/A

4. What special interests or concerns do you have about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project and why is this of particular interest or concern to you?

MY INTEREST IS TWO-FOLD. A SAFETY CONCERN AND A HISTORICAL INTEREST.

5. Have any of your friends or neighbors talked with you to express interest or concern about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project, and if so, what were their concerns and why is this information of particular interest or concern?

NO

6. If you had a question or concern, what would you do? Is there someone you would call or contact? (For example, 911/police, fire department, local politicians, U.S. Army Corps of Engineers, etc.)

LOCAL POLICE AND U.S. ARMY CORPS OF ENGINEERS

7. Would you be interested in joining a mailing list to receive fact sheets and other general information about this project? (circle one) Yes No If an email distribution is preferred, please provide an email address below:

BAMES E. LEBENTY 10/16

8. Based on your understanding of the site and our conversation so far, what about this project is most interesting to you and would you like to know more about?

THE HISTORICAL ASPECT

9. How does the community receive information about local events and news (i.e., radio, television, newspapers)? If possible, please provide details of specific media (e.g., name, address, or channel).

LEBANON DAILY NEWS, WLBR-WOZIC, WOOLTV

10. In your opinion, what is the most preferable source for information used by the community, and most likely to be viewed/read/heard?

WGAL TV, CITIZEN

11. Other than the mailing list, in what other ways can the Army provide you with information and better involve you in the decision-making process at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? (i.e., newspaper notices, radio/television announcements, administrative record file/information repository, community hotline, community meetings, etc.)

COMMUNITY MEETINGS WOULD BE GREAT

12. How frequently would you like to receive information? (i.e., monthly, quarterly, semi-annually, annually, whenever events warrant, etc.)

MONTHLY

13. Can you suggest anyone else (friend, neighbor, group, informal or formal leader) that we should contact or who might want to be included on the mailing list? Please provide the person(s) mailing address.

SOUTH LONDON/DEWY TWP OFFICIALS

14. Do you have or do you know of someone who may have historical information about the operations of the Mount Gretna Training Camp Artillery Range West Munitions Response Site during active use? If so, please identify the source of the information.

WARREN FARMS LEANING COUNTY HISTORICAL SOCIETY

15. Is there anything else you would like to mention regarding the site or process?

GOOD LUCK

Privacy Act Statement

Authority: 10 U.S. Code (USC) 2705. Principal Purpose: To identify the attitudes and concerns of area residents concerning activities at FUDS, HTRW or Military Munitions Response projects during the study phase. The requested information will be used to develop the Community Relations Plan for the Mount Gretna Training Camp Artillery Range West Munitions Response Site. All information will be made public, but will not be attributed to any specific individual(s). The information will also be used by the Army to develop a mailing list of individuals interested in receiving fact sheets and other general information about the study. Disclosure of the requested information is voluntary. Failure to provide all the requested information may lessen the effectiveness of the community relations program for the project.

**Army National Guard Directorate and U.S. Army Corps of Engineers
Military Munitions Response Program at
Mount Gretna Training Camp Artillery Range West Munitions Response Site
Community Interviews Questionnaire
September 2015**

Name: [REDACTED]

Affiliation: [REDACTED]

Address: [REDACTED]

City, State, Zip: [REDACTED]

Home Phone: [REDACTED]

Work Phone: [REDACTED]

Instructions to complete the questionnaire: Thank you for taking time to read the information and questionnaire. Please consider the questions and provide your responses. Use the lines provided to write your response or use a separate sheet of paper if you need more space. **Please write clearly.** You may provide your responses to Mr. John D. Fronko, PA Department of Military and Veterans Affairs, Bureau of Environmental Management, Fort Indiantown Gap, Building 0-11, Annville, PA 1703 or e-mail at jfronko@pa.gov. If you e-mail or use a separate sheet of paper for your responses, **please make sure your response corresponds to the correct question number.** If you have any questions regarding this questionnaire, please contact the Public Affairs Office at 717-861-8829 or through e-mail at the address provided. Please e-mail or mail your completed questionnaire in the envelope provided no later than September 22, 2015.

1. A remedial investigation/feasibility study is being conducted at Mount Gretna Training Camp Artillery Range West Munitions Response Site in State Game Lands 145, near Mount Gretna, Pennsylvania. The range is a Non-Department of Defense owned, Non-Operational Defense Site. Have you heard about the Military Munitions Response Program study at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? If so, do you remember when and how you learned of it? *yes*

2. Have you talked with any representatives of the Army Corps of Engineers, the Pennsylvania Army National Guard or the Army National Guard Directorate, and state or environmental officials about the ongoing Mount Gretna Training Camp Artillery Range West Munitions Response Site remedial investigation/feasibility study? (circle one)
Yes No

3. If you have, were they responsive to your concerns or questions? Do you feel that the Army is a credible and trustworthy source of information?
N/A

4. What special interests or concerns do you have about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project and why is this of particular interest or concern to you?
Do not call, write, text ect. & do not come to my door

5. Have any of your friends or neighbors talked with you to express interest or concern about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project, and if so, what were their concerns and why is this information of particular interest or concern? *no*

6. If you had a question or concern, what would you do? Is there someone you would call or contact? (For example, 911/police, fire department, local politicians, U.S. Army Corps of Engineers, etc.) *no questions*

7. Would you be interested in joining a mailing list to receive fact sheets and other general information about this project? (circle one) Yes No If an email distribution is preferred, please provide an email address below:
8. Based on your understanding of the site and our conversation so far, what about this project is most interesting to you and would you like to know more about? *nothing*
9. How does the community receive information about local events and news (i.e., radio, television, newspapers)? If possible, please provide details of specific media (e.g., name, address, or channel). *word of mouth*
10. In your opinion, what is the most preferable source for information used by the community, and most likely to be viewed/read/heard? *?*
11. Other than the mailing list, in what other ways can the Army provide you with information and better involve you in the decision-making process at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? (i.e., newspaper notices, radio/television announcements, administrative record file/information repository, community hotline, community meetings, etc.) *I don't need involvement*
12. How frequently would you like to receive information? (i.e., monthly, quarterly, semi-annually, annually, whenever events warrant, etc.) *never*
13. Can you suggest anyone else (friend, neighbor, group, informal or formal leader) that we should contact or who might want to be included on the mailing list? Please provide the person(s) mailing address.
no
14. Do you have or do you know of someone who may have historical information about the operations of the Mount Gretna Training Camp Artillery Range West Munitions Response Site during active use? If so, please identify the source of the information. *Mount Gretna historical asen - Pennsylvania ave - Mt Gretna*
15. Is there anything else you would like to mention regarding the site or process? *I know the program and do not want any personal involvement*

Privacy Act Statement

Authority: 10 U.S. Code (USC) 2705. *Principal Purpose:* To identify the attitudes and concerns of area residents concerning activities at FUDS, HTRW or Military Munitions Response projects during the study phase. The requested information will be used to develop the Community Relations Plan for the Mount Gretna Training Camp Artillery Range West Munitions Response Site. All information will be made public, but will *not* be attributed to any specific individual(s). The information will also be used by the Army to develop a mailing list of individuals interested in receiving fact sheets and other general information about the study. Disclosure of the requested information is voluntary. Failure to provide all the requested information may lessen the effectiveness of the community relations program for the project.

**Army National Guard Directorate and U.S. Army Corps of Engineers
Military Munitions Response Program at
Mount Gretna Training Camp Artillery Range West Munitions Response Site
Community Interviews Questionnaire
September 2015**

Name: [REDACTED]

Affiliation: [REDACTED]

Address: [REDACTED]

City, State, Zip: [REDACTED]

Home Phone: [REDACTED]

Work Phone: [REDACTED]

Instructions to complete the questionnaire: Thank you for taking time to read the information and questionnaire. Please consider the questions and provide your responses. Use the lines provided to write your response or use a separate sheet of paper if you need more space. **Please write clearly.** You may provide your responses to Mr. John D. Fronko, PA Department of Military and Veterans Affairs, Bureau of Environmental Management, Fort Indiantown Gap, Building 0-11, Annville, PA 1703 or e-mail at jfronko@pa.gov. If you e-mail or use a separate sheet of paper for your responses, **please make sure your response corresponds to the correct question number.** If you have any questions regarding this questionnaire, please contact the Public Affairs Office at 717-861-8829 or through e-mail at the address provided. Please e-mail or mail your completed questionnaire in the envelope provided no later than **September 22, 2015.**

1. A remedial investigation/feasibility study is being conducted at Mount Gretna Training Camp Artillery Range West Munitions Response Site in State Game Lands 145, near Mount Gretna, Pennsylvania. The range is a Non-Department of Defense owned, Non-Operational Defense Site. Have you heard about the Military Munitions Response Program study at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? If so, do you remember when and how you learned of it?

Yes. From previous C of E Letters.

2. Have you talked with any representatives of the Army Corps of Engineers, the Pennsylvania Army National Guard or the Army National Guard Directorate, and state or environmental officials about the ongoing Mount Gretna Training Camp Artillery Range West Munitions Response Site remedial investigation/feasibility study? (circle one)

Yes No

3. If you have, were they responsive to your concerns or questions? Do you feel that the Army is a credible and trustworthy source of information?

Yes. The answers were credible.

4. What special interests or concerns do you have about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project and why is this of particular interest or concern to you?

I have no concerns.

5. Have any of your friends or neighbors talked with you to express interest or concern about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project, and if so, what were their concerns and why is this information of particular interest or concern?

There was discussion about it at our annual Home Owners Assn. meeting in 2014. The questions regarding response are an HCA rather than individuals.

6. If you had a question or concern, what would you do? Is there someone you would call or contact? (For example, 911/police, fire department, local politicians, U.S. Army Corps of Engineers, etc.)

7. Would you be interested in joining a mailing list to receive fact sheets and other general information about this project? (circle one) Yes No If an email distribution is preferred, please provide an email address below:



8. Based on your understanding of the site and our conversation so far, what about this project is most interesting to you and would you like to know more about?

The history of a particular location is always of interest to me.

9. How does the community receive information about local events and news (i.e., radio, television, newspapers)? If possible, please provide details of specific media (e.g., name, address, or channel).

I get all my news from radio (WHP-580) or from the internet (Drudge, CNN, BBC, PennLive)

10. In your opinion, what is the most preferable source for information used by the community, and most likely to be viewed/read/heard?

cannot speak for the community.

11. Other than the mailing list, in what other ways can the Army provide you with information and better involve you in the decision-making process at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? (i.e., newspaper notices, radio/television announcements, administrative record file/information repository, community hotline, community meetings, etc.)

12. How frequently would you like to receive information? (i.e., monthly, quarterly, semi-annually, annually, whenever events warrant, etc.)

Quarterly

13. Can you suggest anyone else (friend, neighbor, group, informal or formal leader) that we should contact or who might want to be included on the mailing list? Please provide the person(s) mailing address.

14. Do you have or do you know of someone who may have historical information about the operations of the Mount Gretna Training Camp Artillery Range West Munitions Response Site during active use? If so, please identify the source of the information.

15. Is there anything else you would like to mention regarding the site or process?

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**Army National Guard Directorate and U.S. Army Corps of Engineers
Military Munitions Response Program at
Mount Gretna Training Camp Artillery Range West Munitions Response Site
Community Interviews Questionnaire
September 2015**

Name:

Affiliation:

Address:

City, State, Zip:

Home Phone:

Work Phone:

Instructions to complete the questionnaire: Thank you for taking time to read the information and questionnaire. Please consider the questions and provide your responses. Use the lines provided to write your response or use a separate sheet of paper if you need more space. **Please write clearly.** You may provide your responses to Mr. John D. Fronko, PA Department of Military and Veterans Affairs, Bureau of Environmental Management, Fort Indiantown Gap, Building 0-11, Annville, PA 1703 or e-mail at jfronko@pa.gov. If you e-mail or use a separate sheet of paper for your responses, **please make sure your response corresponds to the correct question number.** If you have any questions regarding this questionnaire, please contact the Public Affairs Office at 717-861-8829 or through e-mail at the address provided. Please e-mail or mail your completed questionnaire in the envelope provided no later than **September 22, 2015.**

1. A remedial investigation/feasibility study is being conducted at Mount Gretna Training Camp Artillery Range West Munitions Response Site in State Game Lands 145, near Mount Gretna, Pennsylvania. The range is a Non-Department of Defense owned, Non-Operational Defense Site. Have you heard about the Military Munitions Response Program study at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? If so, do you remember when and how you learned of it?

Notified by letter about 2010

2. Have you talked with any representatives of the Army Corps of Engineers, the Pennsylvania Army National Guard or the Army National Guard Directorate, and state or environmental officials about the ongoing Mount Gretna Training Camp Artillery Range West Munitions Response Site remedial investigation/feasibility study? (circle one)

Yes No

Site Survey - field investigation leader

3. If you have, were they responsive to your concerns or questions? Do you feel that the Army is a credible and trustworthy source of information?

yes

4. What special interests or concerns do you have about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project and why is this of particular interest or concern to you?

No special interests

5. Have any of your friends or neighbors talked with you to express interest or concern about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project, and if so, what were their concerns and why is this information of particular interest or concern?

Neighbor - no concerns

6. If you had a question or concern, what would you do? Is there someone you would call or contact? (For example, 911/police, fire department, local politicians, U.S. Army Corps of Engineers, etc.)

7. Would you be interested in joining a mailing list to receive fact sheets and other general information about this project? (circle one) Yes No If an email distribution is preferred, please provide an email address below:
8. Based on your understanding of the site and our conversation so far, what about this project is most interesting to you and would you like to know more about?
History of Military Training Camp and if munitions were found on adjacent properties & state game lands 145.
9. How does the community receive information about local events and news (i.e., radio, television, newspapers)? If possible, please provide details of specific media (e.g., name, address, or channel).
Mt. Gretna News letter written by Roger Gross monthly.
10. In your opinion, what is the most preferable source for information used by the community, and most likely to be viewed/read/heard?
Mt. Gretna News letter & Lebanon Daily News
11. Other than the mailing list, in what other ways can the Army provide you with information and better involve you in the decision-making process at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? (i.e., newspaper notices, radio/television announcements, administrative record file/information repository, community hotline, community meetings, etc.)
Newspaper
12. How frequently would you like to receive information? (i.e., monthly, quarterly, semi-annually, annually, whenever events warrant, etc.)
semi annually
13. Can you suggest anyone else (friend, neighbor, group, informal or formal leader) that we should contact or who might want to be included on the mailing list? Please provide the person(s) mailing address.
No
14. Do you have or do you know of someone who may have historical information about the operations of the Mount Gretna Training Camp Artillery Range West Munitions Response Site during active use? If so, please identify the source of the information.
No
15. Is there anything else you would like to mention regarding the site or process?
No

Privacy Act Statement

Authority: 10 U.S. Code (USC) 2705. *Principal Purpose:* To identify the attitudes and concerns of area residents concerning activities at FUDS, HTRW or Military Munitions Response projects during the study phase. The requested information will be used to develop the Community Relations Plan for the Mount Gretna Training Camp Artillery Range West Munitions Response Site. All information will be made public, but will *not* be attributed to any specific individual(s). The information will also be used by the Army to develop a mailing list of individuals interested in receiving fact sheets and other general information about the study. Disclosure of the requested information is voluntary. Failure to provide all the requested information may lessen the effectiveness of the community relations program for the project.

**Army National Guard Directorate and U.S. Army Corps of Engineers
Military Munitions Response Program at
Mount Gretna Training Camp Artillery Range West Munitions Response Site
Community Interviews Questionnaire
September 2015**

Name: [REDACTED]

Affiliation: [REDACTED]

Address: [REDACTED]

City, State, Zip: [REDACTED]

Home Phone: [REDACTED]

Work Phone: [REDACTED]

Instructions to complete the questionnaire: Thank you for taking time to read the information and questionnaire. Please consider the questions and provide your responses. Use the lines provided to write your response or use a separate sheet of paper if you need more space. **Please write clearly.** You may provide your responses to Mr. John D. Fronko, PA Department of Military and Veterans Affairs, Bureau of Environmental Management, Fort Indiantown Gap, Building 0-11, Annville, PA 1703 or e-mail at jfronko@pa.gov. If you e-mail or use a separate sheet of paper for your responses, **please make sure your response corresponds to the correct question number.** If you have any questions regarding this questionnaire, please contact the Public Affairs Office at 717-861-8829 or through e-mail at the address provided. Please e-mail or mail your completed questionnaire in the envelope provided no later than September 22, 2015.

1. A remedial investigation/feasibility study is being conducted at Mount Gretna Training Camp Artillery Range West Munitions Response Site in State Game Lands 145, near Mount Gretna, Pennsylvania. The range is a Non-Department of Defense owned, Non-Operational Defense Site. Have you heard about the Military Munitions Response Program study at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? If so, do you remember when and how you learned of it?

Yes From a letter sent by John Haines - Army

2. Have you talked with any representatives of the Army Corps of Engineers, the Pennsylvania Army National Guard or the Army National Guard Directorate, and state or environmental officials about the ongoing Mount Gretna Training Camp Artillery Range West Munitions Response Site remedial investigation/feasibility study? (circle one)

Yes No

3. If you have, were they responsive to your concerns or questions? Do you feel that the Army is a credible and trustworthy source of information?

Don't know - think yes

4. What special interests or concerns do you have about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project and why is this of particular interest or concern to you?

None

5. Have any of your friends or neighbors talked with you to express interest or concern about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project, and if so, what were their concerns and why is this information of particular interest or concern?

No

6. If you had a question or concern, what would you do? Is there someone you would call or contact? (For example, 911/police, fire department, local politicians, U.S. Army Corps of Engineers, etc.)

John Haines 763-607-7986

7. Would you be interested in joining a mailing list to receive fact sheets and other general information about this project? (circle one) Yes No If an email distribution is preferred, please provide an email address below:

8. Based on your understanding of the site and our conversation so far, what about this project is most interesting to you and would you like to know more about?

nothing & NO

9. How does the community receive information about local events and news (i.e., radio, television, newspapers)? If possible, please provide details of specific media (e.g., name, address, or channel).

newspaper - Lebanon Daily News

10. In your opinion, what is the most preferable source for information used by the community, and most likely to be viewed/read/heard?

newspaper Lebanon Daily News

11. Other than the mailing list, in what other ways can the Army provide you with information and better involve you in the decision-making process at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? (i.e., newspaper notices, radio/television announcements, administrative record file/information repository, community hotline, community meetings, etc.)

newspaper

12. How frequently would you like to receive information? (i.e., monthly, quarterly, semi-annually, annually, whenever events warrant, etc.)

whenever events warrant

13. Can you suggest anyone else (friend, neighbor, group, informal or formal leader) that we should contact or who might want to be included on the mailing list? Please provide the person(s) mailing address.

No

14. Do you have or do you know of someone who may have historical information about the operations of the Mount Gretna Training Camp Artillery Range West Munitions Response Site during active use? If so, please identify the source of the information.

*MT Gretna Historical Society
PO Box 362
MT Gretna PA 17064*

15. Is there anything else you would like to mention regarding the site or process?

No

Privacy Act Statement

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**Army National Guard Directorate and U.S. Army Corps of Engineers
Military Munitions Response Program at
Mount Gretna Training Camp Artillery Range West Munitions Response Site
Community Interviews Questionnaire
September 2015**

Name: [REDACTED]

Affiliation: [REDACTED]

Address: [REDACTED]

City, State, Zip: [REDACTED]

Home Phone: [REDACTED]

Work Phone: [REDACTED]

Instructions to complete the questionnaire: Thank you for taking time to read the information and questionnaire. Please consider the questions and provide your responses. Use the lines provided to write your response or use a separate sheet of paper if you need more space. **Please write clearly.** You may provide your responses to Mr. John D. Fronko, PA Department of Military and Veterans Affairs, Bureau of Environmental Management, Fort Indiantown Gap, Building 0-11, Annville, PA 1703 or e-mail at jfronko@pa.gov. If you e-mail or use a separate sheet of paper for your responses, **please make sure your response corresponds to the correct question number.** If you have any questions regarding this questionnaire, please contact the Public Affairs Office at 717-861-8829 or through e-mail at the address provided. Please e-mail or mail your completed questionnaire in the envelope provided no later than September 22, 2015.

1. A remedial investigation/feasibility study is being conducted at Mount Gretna Training Camp Artillery Range West Munitions Response Site in State Game Lands 145, near Mount Gretna, Pennsylvania. The range is a Non-Department of Defense owned, Non-Operational Defense Site. Have you heard about the Military Munitions Response Program study at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? If so, do you remember when and how you learned of it? *I have heard about it. I received a packet of information in the mail from the Baltimore office of the Army Corps of Engineers in June, 2014.*

2. Have you talked with any representatives of the Army Corps of Engineers, the Pennsylvania Army National Guard or the Army National Guard Directorate, and state or environmental officials about the ongoing Mount Gretna Training Camp Artillery Range West Munitions Response Site remedial investigation/feasibility study? (circle one)
Yes No

3. If you have, were they responsive to your concerns or questions? ^{-NO} Do you feel that the Army is a credible and trustworthy source of information? *-Yes*

My company owns a small residential building lot within the MRS. My concern is physical disturbance of our property as a consequence of this investigation.

4. What special interests or concerns do you have about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project and why is this of particular interest or concern to you?

5. Have any of your friends or neighbors talked with you to express interest or concern about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project, and if so, what were their concerns and why is this information of particular interest or concern?
No one has discussed this with me.

6. If you had a question or concern, what would you do? Is there someone you would call or contact? (For example, 911/police, fire department, local politicians, U.S. Army Corps of Engineers, etc.)
Call Corps of Engineers or, now, perhaps Indiantown Gap contact

7. Would you be interested in joining a mailing list to receive fact sheets and other general information about this project? (circle one) Yes No If an email distribution is preferred, please provide an email address below:
8. Based on your understanding of the site and our conversation so far, what about this project is most interesting to you and would you like to know more about?
 1.) When will inspectors/investigators be on site, particularly on my property. 2.) Would like to know if ordinance is found on my property.
9. How does the community receive information about local events and news (i.e., radio, television, newspapers)? If possible, please provide details of specific media (e.g., name, address, or channel).
 Lebanon Daily News paper.
 Mt. Gretna post office.
10. In your opinion, what is the most preferable source for information used by the community, and most likely to be viewed/read/heard?
 A poster or "flyer" left for distribution in the Mt. Gretna post office lobby.
11. Other than the mailing list, in what other ways can the Army provide you with information and better involve you in the decision-making process at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? (i.e., newspaper notices, radio/television announcements, administrative record file/information repository, community hotline, community meetings, etc.)
 Either or both newspaper notices or notices left in the post office lobby for public distribution.
12. How frequently would you like to receive information? (i.e., monthly, quarterly, semi-annually, annually, whenever events warrant, etc.)
 When ever events warrant; whenever something is happening on site, or planned to happen.
13. Can you suggest anyone else (friend, neighbor, group, informal or formal leader) that we should contact or who might want to be included on the mailing list? Please provide the person(s) mailing address.
 No
14. Do you have or do you know of someone who may have historical information about the operations of the Mount Gretna Training Camp Artillery Range West Munitions Response Site during active use? If so, please identify the source of the information.
 Mt. Gretna Historical Society
15. Is there anything else you would like to mention regarding the site or process?
 No.

Privacy Act Statement

Authority: 10 U.S. Code (USC) 2705. *Principal Purpose:* To identify the attitudes and concerns of area residents concerning activities at FUDS, HTRW or Military Munitions Response projects during the study phase. The requested information will be used to develop the Community Relations Plan for the Mount Gretna Training Camp Artillery Range West Munitions Response Site. All information will be made public, but will *not* be attributed to any specific individual(s). The information will also be used by the Army to develop a mailing list of individuals interested in receiving fact sheets and other general information about the study. Disclosure of the requested information is voluntary. Failure to provide all the requested information may lessen the effectiveness of the community relations program for the project.

**Army National Guard Directorate and U.S. Army Corps of Engineers
Military Munitions Response Program at
Mount Gretna Training Camp Artillery Range West Munitions Response Site
Community Interviews Questionnaire
September 2015**

Name: [REDACTED]

Affiliation: [REDACTED]

Address: [REDACTED]

City, State, Zip: [REDACTED]

Home Phone: [REDACTED]

Work Phone: [REDACTED]

Instructions to complete the questionnaire: Thank you for taking time to read the information and questionnaire. Please consider the questions and provide your responses. Use the lines provided to write your response or use a separate sheet of paper if you need more space. **Please write clearly.** You may provide your responses to Mr. John D. Fronko, PA Department of Military and Veterans Affairs, Bureau of Environmental Management, Fort Indiantown Gap, Building 0-11, Annville, PA 1703 or e-mail at jfronko@pa.gov. If you e-mail or use a separate sheet of paper for your responses, **please make sure your response corresponds to the correct question number.** If you have any questions regarding this questionnaire, please contact the Public Affairs Office at 717-861-8829 or through e-mail at the address provided. Please e-mail or mail your completed questionnaire in the envelope provided no later than September 22, 2015.

1. A remedial investigation/feasibility study is being conducted at Mount Gretna Training Camp Artillery Range West Munitions Response Site in State Game Lands 145, near Mount Gretna, Pennsylvania. The range is a Non-Department of Defense owned, Non-Operational Defense Site. Have you heard about the Military Munitions Response Program study at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? If so, do you remember when and how you learned of it?

YES, CONTACTED BY ARMY CORPS OF ENGINEERS

2. Have you talked with any representatives of the Army Corps of Engineers, the Pennsylvania Army National Guard or the Army National Guard Directorate, and state or environmental officials about the ongoing Mount Gretna Training Camp Artillery Range West Munitions Response Site remedial investigation/feasibility study? (circle one)

Yes No

3. If you have, were they responsive to your concerns or questions? Do you feel that the Army is a credible and trustworthy source of information?

YES

4. What special interests or concerns do you have about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project and why is this of particular interest or concern to you?

*- POSSIBLE ADVERSE EFFECT ON PROPERTY VALUE
- POSSIBLE TOXINS IN SOIL OR GROUND WATER*

5. Have any of your friends or neighbors talked with you to express interest or concern about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project, and if so, what were their concerns and why is this information of particular interest or concern?

- ONLY PASSING QUICK CONVERSATION

6. If you had a question or concern, what would you do? Is there someone you would call or contact? (For example, 911/police, fire department, local politicians, U.S. Army Corps of Engineers, etc.)

ARMY CORPS OF ENGINEERS

7. Would you be interested in joining a mailing list to receive fact sheets and other general information about this project? (circle one) Yes No If an email distribution is preferred, please provide an email address below:
8. Based on your understanding of the site and our conversation so far, what about this project is most interesting to you and would you like to know more about?
SOIL OR WATER TOXINS
9. How does the community receive information about local events and news (i.e., radio, television, newspapers)? If possible, please provide details of specific media (e.g., name, address, or channel).
Newspaper
10. In your opinion, what is the most preferable source for information used by the community, and most likely to be viewed/read/heard?
No opinion; don't know
11. Other than the mailing list, in what other ways can the Army provide you with information and better involve you in the decision-making process at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? (i.e., newspaper notices, radio/television announcements, administrative record file/information repository, community hotline, community meetings, etc.)
mailing preferred
12. How frequently would you like to receive information? (i.e., monthly, quarterly, semi-annually, annually, whenever events warrant, etc.)
When events warrant
13. Can you suggest anyone else (friend, neighbor, group, informal or formal leader) that we should contact or who might want to be included on the mailing list? Please provide the person(s) mailing address.
TimberRidge Home Owners Association
TimberRidgeHOA@gmail.com
14. Do you have or do you know of someone who may have historical information about the operations of the Mount Gretna Training Camp Artillery Range West Munitions Response Site during active use? If so, please identify the source of the information.
NO
15. Is there anything else you would like to mention regarding the site or process?

Privacy Act Statement

Authority: 10 U.S. Code (USC) 2705. *Principal Purpose:* To identify the attitudes and concerns of area residents concerning activities at FUDS, HTRW or Military Munitions Response projects during the study phase. The requested information will be used to develop the Community Relations Plan for the Mount Gretna Training Camp Artillery Range West Munitions Response Site. All information will be made public, but will *not* be attributed to any specific individual(s). The information will also be used by the Army to develop a mailing list of individuals interested in receiving fact sheets and other general information about the study. Disclosure of the requested information is voluntary. Failure to provide all the requested information may lessen the effectiveness of the community relations program for the project.

**Army National Guard Directorate and U.S. Army Corps of Engineers
Military Munitions Response Program at
Mount Gretna Training Camp Artillery Range West Munitions Response Site
Community Interviews Questionnaire
September 2015**

Name: [REDACTED]

Affiliation: [REDACTED]

Address: [REDACTED]

City, State, Zip: [REDACTED]

Home Phone: [REDACTED]

Work Phone: [REDACTED]

Instructions to complete the questionnaire: Thank you for taking time to read the information and questionnaire. Please consider the questions and provide your responses. Use the lines provided to write your response or use a separate sheet of paper if you need more space. **Please write clearly.** You may provide your responses to Mr. John D. Fronko, PA Department of Military and Veterans Affairs, Bureau of Environmental Management, Fort Indiantown Gap, Building 0-11, Annville, PA 1703 or e-mail at jfronko@pa.gov. If you e-mail or use a separate sheet of paper for your responses, **please make sure your response corresponds to the correct question number.** If you have any questions regarding this questionnaire, please contact the Public Affairs Office at 717-861-8829 or through e-mail at the address provided. Please e-mail or mail your completed questionnaire in the envelope provided no later than **September 22, 2015.**

1. A remedial investigation/feasibility study is being conducted at Mount Gretna Training Camp Artillery Range West Munitions Response Site in State Game Lands 145, near Mount Gretna, Pennsylvania. The range is a Non-Department of Defense owned, Non-Operational Defense Site. Have you heard about the Military Munitions Response Program study at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? If so, do you remember when and how you learned of it?

TWO YEARS AGO
2. Have you talked with any representatives of the Army Corps of Engineers, the Pennsylvania Army National Guard or the Army National Guard Directorate, and state or environmental officials about the ongoing Mount Gretna Training Camp Artillery Range West Munitions Response Site remedial investigation/feasibility study? (circle one)
Yes No
3. If you have, were they responsive to your concerns or questions? Do you feel that the Army is a credible and trustworthy source of information?
4. What special interests or concerns do you have about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project and why is this of particular interest or concern to you?

NOT
5. Have any of your friends or neighbors talked with you to express interest or concern about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project, and if so, what were their concerns and why is this information of particular interest or concern?

NO
6. If you had a question or concern, what would you do? Is there someone you would call or contact? (For example, 911/police, fire department, local politicians, U.S. Army Corps of Engineers, etc.)

7. Would you be interested in joining a mailing list to receive fact sheets and other general information about this project? (circle one) Yes No If an email distribution is preferred, please provide an email address below:
8. Based on your understanding of the site and our conversation so far, what about this project is most interesting to you and would you like to know more about? YES. ANY HISTORY
9. How does the community receive information about local events and news (i.e., radio, television, newspapers)? If possible, please provide details of specific media (e.g., name, address, or channel). MT GRETTA NEWS
10. In your opinion, what is the most preferable source for information used by the community, and most likely to be viewed/read/heard? MT GRETTA NEWS
11. Other than the mailing list, in what other ways can the Army provide you with information and better involve you in the decision-making process at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? (i.e., newspaper notices radio/television announcements, administrative record file/information repository, community hotline, community meetings, etc.)
12. How frequently would you like to receive information? (i.e., monthly, quarterly, semi-annually, annually, whenever events warrant, etc.)
13. Can you suggest anyone else (friend, neighbor, group, informal or formal leader) that we should contact or who might want to be included on the mailing list? Please provide the person(s) mailing address.
14. Do you have or do you know of someone who may have historical information about the operations of the Mount Gretna Training Camp Artillery Range West Munitions Response Site during active use? If so, please identify the source of the information.
15. Is there anything else you would like to mention regarding the site or process?

Thank you

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**Army National Guard Directorate and U.S. Army Corps of Engineers
Military Munitions Response Program at
Mount Gretna Training Camp Artillery Range West Munitions Response Site
Community Interviews Questionnaire
September 2015**

Name: [REDACTED]

Affiliation: [REDACTED]

Address: [REDACTED]

City, State, Zip: [REDACTED]

Home Phone: [REDACTED]

Work Phone: [REDACTED]

Instructions to complete the questionnaire: Thank you for taking time to read the information and questionnaire. Please consider the questions and provide your responses. Use the lines provided to write your response or use a separate sheet of paper if you need more space. **Please write clearly.** You may provide your responses to Mr. John D. Fronko, PA Department of Military and Veterans Affairs, Bureau of Environmental Management, Fort Indiantown Gap, Building 0-11, Annville, PA 1703 or e-mail at jfronko@pa.gov. If you e-mail or use a separate sheet of paper for your responses, **please make sure your response corresponds to the correct question number.** If you have any questions regarding this questionnaire, please contact the Public Affairs Office at 717-861-8829 or through e-mail at the address provided. Please e-mail or mail your completed questionnaire in the envelope provided no later than September 22, 2015.

1. A remedial investigation/feasibility study is being conducted at Mount Gretna Training Camp Artillery Range West Munitions Response Site in State Game Lands 145, near Mount Gretna, Pennsylvania. The range is a Non-Department of Defense owned, Non-Operational Defense Site. Have you heard about the Military Munitions Response Program study at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? If so, do you remember when and how you learned of it?

Yes. Several communications have been sent to us over the past two years.

2. Have you talked with any representatives of the Army Corps of Engineers, the Pennsylvania Army National Guard or the Army National Guard Directorate, and state or environmental officials about the ongoing Mount Gretna Training Camp Artillery Range West Munitions Response Site remedial investigation/feasibility study? (circle one)
Yes No

3. If you have, were they responsive to your concerns or questions? Do you feel that the Army is a credible and trustworthy source of information?

N/A

4. What special interests or concerns do you have about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project and why is this of particular interest or concern to you?

our property is in the firing line. There are trails in the area we use as well - Safety is our concern.

5. Have any of your friends or neighbors talked with you to express interest or concern about the Mount Gretna Training Camp Artillery Range West Munitions Response Site project, and if so, what were their concerns and why is this information of particular interest or concern?

Yes - Safety concerns were expressed.

6. If you had a question or concern, what would you do? Is there someone you would call or contact? (For example, 911/police, fire department, local politicians, U.S. Army Corps of Engineers, etc.)

Not sure who to call - If we found an unexploded device we would call police.

7. Would you be interested in joining a mailing list to receive fact sheets and other general information about this project? (circle one) ~~Yes~~ No If an email distribution is preferred, please provide an email address below:

[REDACTED]

8. Based on your understanding of the site and our conversation so far, what about this project is most interesting to you and would you like to know more about? - If my property and surrounding properties have been searched, what was found?

9. How does the community receive information about local events and news (i.e., radio, television, newspapers)? If possible, please provide details of specific media (e.g., name, address, or channel).

Mount Gretna Newsletter
Home owners meetings and emails

10. In your opinion, what is the most preferable source for information used by the community, and most likely to be viewed/read/heard? Email

11. Other than the mailing list, in what other ways can the Army provide you with information and better involve you in the decision-making process at the Mount Gretna Training Camp Artillery Range West Munitions Response Site? (i.e., newspaper notices, radio/television announcements, administrative record file/information repository, community hotline, community meetings, etc.) Email

12. How frequently would you like to receive information? (i.e., monthly, quarterly, semi-annually, annually, whenever events warrant, etc.) Semi annually or if a significant event occurs

13. Can you suggest anyone else (friend, neighbor, group, informal or formal leader) that we should contact or who might want to be included on the mailing list? Please provide the person(s) mailing address.
No

14. Do you have or do you know of someone who may have historical information about the operations of the Mount Gretna Training Camp Artillery Range West Munitions Response Site during active use? If so, please identify the source of the information.
No

15. Is there anything else you would like to mention regarding the site or process?
No

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APPENDIX F

FACT SHEET FOR RD/RA PHASE



March 2019

Fact Sheet: Military Munitions Response Program Overview of Remedial Design/Remedial Action Mount Gretna Range Munitions Response Site

Mount Gretna, Pennsylvania

Highlights of the Remedial Design and Remedial Action

The official name of the site that will be remediated is the Mount Gretna Training Camp Artillery Range - West Munitions Response Site (MRS). The 78.7-acre MRS is located in Lebanon County in Mount Gretna, Pennsylvania. As documented in the Final Record of Decision for the Mount Gretna Training Camp Artillery Range – West MRS, which was signed on September 20, 2018, a remedial action is necessary to reduce the risk associated with munitions and explosives of concern and munitions constituents (MC) -contaminated soil that may be present from past munitions-related activities. The remedies chosen to achieve the remedial response are as follows:

- Removal of surface and subsurface munitions and explosives of concern.
- Removal of MC-contaminated soil to a depth of 2 feet.

Surface and subsurface removal of munitions and explosives of concern will be conducted over 78.7 acres in the Mt Gretna Training Camp Artillery Range MRS. The MC-contaminated soil removal will be conducted to a depth of 1 foot over a 0.08-acre portion of the site. The attached figure shows the location of the two removal areas. :

Small arms ammunitions that may be encountered during the remedial action includes, 3-inch Stokes mortars 37mm mortars, and 60mm mortars. The remedial design and remedial action approach is detailed in the Remedial Design/Remedial Action Work Plan. A summary of the technical approach of the remedial action includes the following:

- **Mobilization** – Includes assembly of field staff and equipment.
- **Grid Survey Activities** – A grid system will be established to track progress and results and to ensure complete coverage is achieved during the surface and subsurface removal.
- **Brush Clearing** – Vegetation removal will be conducted only when necessary to ensure personnel safety and to achieve quality removal results during operations.
- **Surface and Subsurface Removal of Munitions and Explosives of Concern** – The removal of military munitions will be completed by qualified munitions technicians using hand-held metal detectors. All items found on the surface and in the subsurface detected by the metal detector, to the maximum detection depth, will be removed with hand tools.

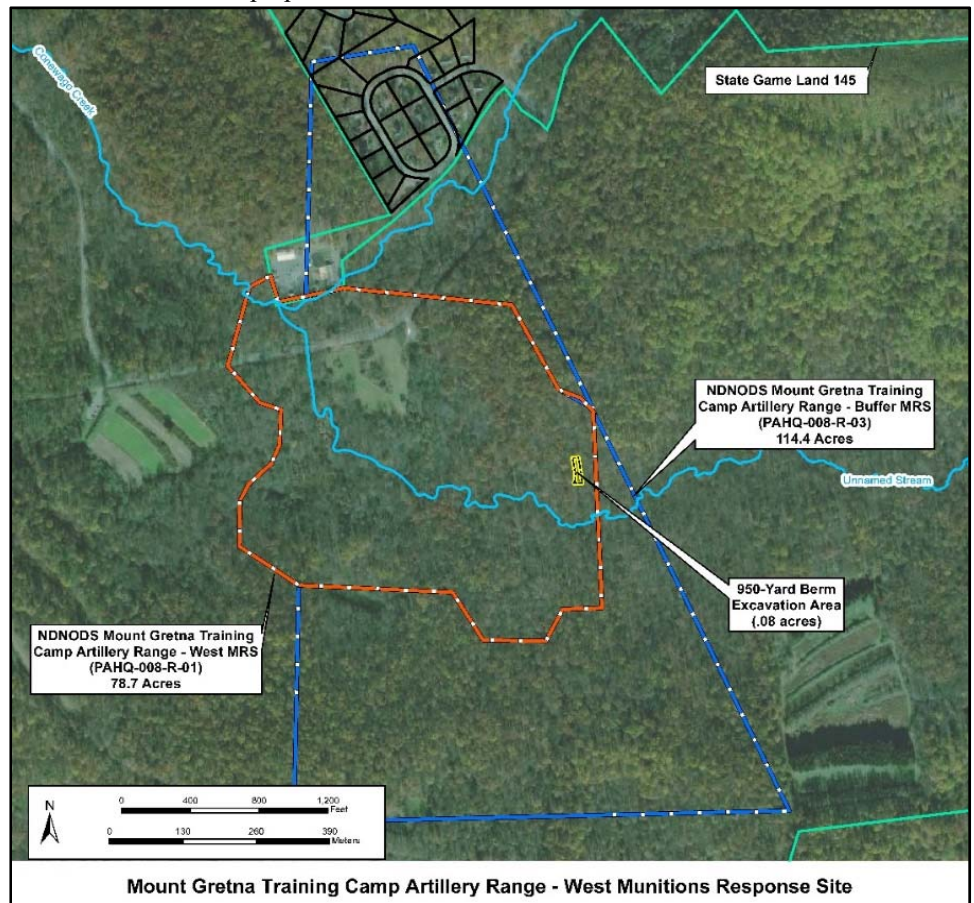
Any item suspected to be munitions and explosives of concern will be blown in place or consolidated with other material potentially presenting an explosive hazard for on-site detonation. The material documented as safe will be combined, certified as explosive-free, and disposed off-site for recycling.

- **Removal of MC-Contaminated Soil** – The lead-contaminated soil in the 0.08-acre area will be removed with excavation equipment. It is estimated that approximately 130 cubic yards of soil will be excavated and shipped to a secure landfill permitted to accept hazardous waste.
- **MC Sampling** – Soil samples will be collected within the excavation area to confirm the contaminated soil has been removed.

Project Schedule

Field activities are scheduled to begin in the summer of 2019. The field work is expected to take approximately 2.5 months to complete. Following the field activities, a remedial action report will be prepared to summarize the results of the field work.

The data will be used to support unlimited use/unrestricted exposure for the site. In addition, an after action report will be prepared.



Mount Gretna Range Munitions Response Site Background

The Mount Gretna Training Camp Artillery Range West - MRS consists of largely undeveloped forested land, which is being used by The Pennsylvania Game Commission for recreation. The Conewago Creek traverses through the MRS. This MRS is designated as a Supporting Landscape or Core Habitat, which maintains vital ecological processes or secondary habitat for sensitive natural features that may be able to accommodate some types of low-impact activities.

In the northern portion of the MRS, Route 117 passes through the site, and existing buildings are present along the northern boundary of the MRS. Conewago Lake is located to the northeast of the MRS within the borough of Mount Gretna. The MRS is a Non-Department of Defense, Non-Operational Defense Site.

The MRS was used by the Pennsylvania Army National Guard for small arms and artillery training between 1885 and 1941 (estimated). Previous environmental studies at the range included the following activities:

- 2009 – A Non-Department of Defense, Non-Operational Defense Site Inventory Report was completed for the Commonwealth of Pennsylvania, which identified the MRS currently under state ownership and managed by the Pennsylvania Game Commission (State Game Lands 145).
- 2012 – Site inspection was completed. Based on the results of the site inspection, the MRS was divided to separate the east-west range from the north-south range, where munitions and explosives of concern, MC (chemical and substances), and small arms ammunition were detected. Therefore, the acreage was revised to 181 acres, and the MRS was recommended to proceed to the remedial investigation phase to assess munitions and explosives of concern and MC.

Summary of Remedial Investigation and Feasibility Study

The remedial investigation was conducted from 2016 to 2017 to characterize the nature and extent of munitions and explosives of concern and MC (substances and chemicals associated with munitions). Based on the results of the remedial investigation field activities, the following conclusions were determined for the site:

- A 78.7-acre area was identified as potentially containing munitions and explosives of concern.

- Site visitors and occupational workers may encounter munitions and explosives of concern on the surface and subsurface.
- MC (antimony and lead) were detected above human health screening criteria in surface soils at the 950-yard backstop.
- Site visitors and occupational workers may encounter MC at the area of the backstop.
- MC metals (antimony, copper, lead, and zinc) were detected in surface soil, in the creek and stream (copper), and in sediment above ecological screening levels.
- MC could potentially enter the food chain for plants and animals through the soil, surface water, and sediment. The only adverse ecological risk was associated with lead detected in the surface soil at the 950-yard backstop.

Based on the results of the remedial investigation, it was recommended the site be divided into two MRSs. The Mount Gretna Training Camp Artillery Range - West MRS was revised to include the potential munitions and explosives of concern and MC source areas present at the site (approximately 78.7 acres). The remaining area (approximately 114.4 acres) where no munitions and explosives of concern, or MC posing unacceptable risks to plants and animals, were identified was named the Mount Gretna Training Camp Artillery Range - Buffer MRS.

A feasibility study was performed in 2017 to identify and evaluate remedial action alternatives for the site. The following five alternatives were identified and evaluated:

- Alternative 1 – No Action
- Alternative 2 – Land Use Controls
- Alternative 3 – Munitions and Explosives of Concern Surface Clearance (78.7 acres) with Land Use Controls
- Alternative 4 – Munitions and Explosives of Concern Surface and Subsurface Clearance (78.7 acres) with Land Use Controls
- Alternative 5 – Munitions and Explosives of Concern Surface Clearance (78.7 acres) with MC Soil Removal (0.08 acre) to depth of 12 inches and No Land Use Controls (*This alternative was recommended to proceed to the remedial action*).

A Proposed Plan was issued in March 2018. The Proposed Plan explained the alternatives, presented the preferred alternative (Alternative 5), and provided an opportunity for public input on the proposed cleanup plan in a 30-day public comment period (February 2 to March 3, 2018).

Project Information Repositories

All documents prepared for this site are available at the following locations:

Pennsylvania Army National Guard
Fort Indiantown Gap, Bldg 0-11
Annville, PA 17003

<https://www.dmva.pa.gov/dmvaoffices/Environmental-Resources/Pages/Mt-Gretna-Training-Camp-Artillery-Range-West-Munitions-Response-Site.aspx>

Annville Free Library
216 East Main Street
Annville, PA 17003



Recognize. Understand you may have encountered a munition.

Retreat. Do not touch, move, or disturb it; but carefully leave the area.

Report. Immediately notify the police. Call 911 and report the location and description of the item. When possible, provide its estimated size, shape, and any visible markings, including coloring.

For More Information

For more information regarding the Mount Gretna Training Camp Artillery Range West MRS and remedial investigation and feasibility study process, please contact:

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