

**FY2015**

**FORT A P HILL**

**Army Defense Environmental Restoration Program**

**Installation Action Plan**

Printed 22 July 2015

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## Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multiyear cleanup program for an installation. The plan identifies environmental cleanup requirements at each site or area of concern (AOC), and proposes a comprehensive, installation-wide approach, along with the costs and schedules associated with conducting investigations and taking the necessary remedial actions (RAs).

In an effort to coordinate planning information between the restoration manager, the US Army Environmental Command (USAEC), Fort A.P. Hill, the executing agencies, the regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules, and tentative budgets for all major Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change.

## Acronyms

|        |  |
|--------|--|
| AEDB-R | Army Environmental Database - Restoration                            |
| AOC    | Area of Concern  |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act |
| CTT    | Closed, Transferred, or Transferring                                 |
| DD     | Decision Document  |
| ER,A   | Environmental Restoration, Army                                      |
| ESS    | Explosives Safety Submission   |
| FFS    | Focused Feasibility Study  |
| FRA    | Final Remedial Action  |
| FS     | Feasibility Study  |
| FUDS   | Formerly Used Defense Sites  |
| FY     | Fiscal Year  |
| HRR    | Historical Records Review  |
| IAP    | Installation Action Plan   |
| IMCOM  | Installation Management Command                                      |
| IRA    | Interim Remedial Action  |
| LTM    | Long-Term Management   |
| LUC    | Land Use Control   |
| MC     | Munitions Constituents   |
| MEC    | Munitions and Explosives of Concern                                  |
| MMRP   | Military Munitions Response Program                                  |
| MRS    | Munitions Response Site  |
| N/A    | Not Applicable   |
| NFA    | No Further Action  |
| NPL    | National Priorities List   |
| PA     | Preliminary Assessment   |
| PP     | Proposed Plan  |
| RA     | Remedial Action  |
| RA(C)  | Remedial Action - Construction                                       |
| RAB    | Restoration Advisory Board   |
| RC     | Response Complete  |
| RD     | Remedial Design  |
| RI     | Remedial Investigation   |
| RIP    | Remedy-in-Place  |
| ROD    | Record of Decision   |
| SI     | Site Inspection  |
| SWMU   | Solid Waste Management Unit  |
| TAPP   | Technical Assistance for Public Participation                        |
| TRC    | Technical Review Committee   |
| USACE  | US Army Corps of Engineers   |
| USAEC  | US Army Environmental Command  |
| USEPA  | US Environmental Protection Agency                                   |
| UXO    | Unexploded Ordnance  |
| VDEQ   | Virginia Department of Environmental Quality                         |
| WWTP   | Wastewater Treatment Plant   |

# Installation Information

## Installation Locale

**Installation Size (Acreage):** 75794

**City:** Bowling Green

**County:** Caroline

**State:** Virginia

## Other Locale Information

Fort A.P. Hill is a US Army training facility located in Caroline County, Virginia, approximately two miles north of the town of Bowling Green. The installation encompasses approximately 76,000 acres and is bisected by US Route 301, which connects Bowling Green and Port Royal, Virginia. It is located approximately 75 miles south of Washington, DC and 40 miles north of Richmond, Virginia.

## Installation Mission

Fort A.P. Hill, a regional training center, provides realistic joint and combined arms training support to America's defense forces.

Fort A.P. Hill is used year-round for military training of both active and reserve troops of the Army, Navy, Marines, and Air Force, as well as other government agencies. These include the Departments of State and Interior; US Customs Service; and federal, state and local security and law enforcement agencies.

## Lead Organization

IMCOM

## Lead Executing Agencies for Installation

US Army Corps of Engineers (USACE), Norfolk for Formerly Used Defense Sites (FUDS) nominated sites

USAEC for the Environmental Restoration, Army (ER,A) sites

## Regulator Participation

|                |  |
|----------------|--|
| <b>Federal</b> | US Environmental Protection Agency (USEPA), Region III, Waste and Chemical Management Division |
| <b>State</b>   | Virginia Department of Environmental Quality (VDEQ)  |

## National Priorities List (NPL) Status

FORT A P HILL is not on the NPL

## Installation Restoration Advisory Board (RAB)/Technical Review Committee (TRC)/Technical Assistance for Public Participation (TAPP) Status

The community has expressed no sufficient, sustained interest in a RAB.

## Installation Program Summaries

### MMRP

**Primary Contaminants of Concern:** Munitions and explosives of concern (MEC)

**Affected Media of Concern:** Soil

# 5-Year / Periodic Review Summary

## 5-Year / Periodic Review Summary

| Status  | Start Date | End Date | End FY |
|---------|------------|----------|--------|
| Planned | 202101     | 202108   | 2021   |

## 5-Year / Periodic Review Details

| Associated ROD/DD Name | Sites          |
|------------------------|----------------|
| FTAPH-003-R-01         | FTAPH-003-R-01 |

## Land Use Control (LUC) Summary

**LUC Title:** LUC - TA 20 & 21

**Site(s):** FTAPH-003-R-01

**ROD/DD Title:** FTAPH-003-R-01

**Location of LUC**

Centrally located within the installation off of Route 301

**Land Use Restriction:** Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

**Types of Engineering Controls:** Fences, Signs

**Types of Institutional Controls:** Deed Restrictions, Dig Permits, Education programs, Restrictions on land use

**Date in Place:** 201706

**Modification Date:** N/A

**Date Terminated:** N/A

**Inspecting Organization:** Installation

**Record of LUC:** Master Plan or Equivalent

**Documentation Date:** 201502

**LUC Enforcement:** Annual Inspections, 5 Year Reviews

**Contaminants:** Unexploded Ordnance(UXO)

**Additional Information**

N/A

# Cleanup Program Summary

## Installation Historic Activity

Fort A.P. Hill was established in June 1941 to provide a training area for infantry and artillery troops during World War II. It is one of the largest military installations on the east coast, providing training grounds for, and testing of, a large variety of military forces and weapons. The portion of the installation south of US Route 301 is used for live-fire munitions training and access is strictly controlled. The primary use of the northern portion of the installation is for non live-fire troop and vehicle training in a variety of wartime maneuver simulations. All access points to the installation are controlled. The installation is divided into training areas and range areas, within which specific training or live-fire activities occur. The public also uses selected training areas for recreational purposes. Recreational user access is controlled and tracked on a daily basis.

The training capacity of Fort A.P. Hill is considered critical to the ongoing mission of the US military. It is a regional training center, providing realistic joint and combined arms training support to America's defense forces. Given the value of the installation, closure is unlikely in the foreseeable future. This information is critical in considering future plans regarding remediation (where applicable) at various sites. By virtue of ownership by the US government, potential exposure routes at individual solid waste management units (SWMUs) and AOCs are currently well-controlled and will likely remain under control.

In August 2002, the Phase III Army range inventory was completed. The inventory identified four sites as eligible for the Military Munitions Response Program (MMRP). The Phase III inventory serves as the preliminary assessment (PA) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). These four sites were transferred to federal, state, or local government several years ago and do not require extensive site characterization and investigations.

## Installation Program Cleanup Progress

### MMRP

**Prior Year Progress:** The land use control (LUC) plan will be completed.

**Future Plan of Action:** Efforts to complete the closure explosives safety submission (ESS) should be completed in fiscal year (FY) 2016. Since munitions debris was found it is assumed that LUCs and five-year reviews will be required.



**FORT A P HILL**  
**Army Defense Environmental Restoration Program**  
**Military Munitions Response Program**

# MMRP Summary

**Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count:** 5/4

**Installation Site Types with Future and/or Underway Phases**

1 Firing Range  
(FTAPH-003-R-01)

**Most Widespread Contaminants of Concern**

Munitions and explosives of concern (MEC)

**Media of Concern**

Soil

**Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))**

| Site ID | Site Name | Action | Remedy | FY |
|---------|-----------|--------|--------|----|
| N/A     |           |        |        |    |

**Duration of MMRP**

**Date of MMRP Inception** 200202

**Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC):** 201608/201608

**Date of MMRP completion including Long Term Management (LTM):** 204609

# MMRP Contamination Assessment

## Contamination Assessment Overview

In August 2002 the Phase III Army range inventory was completed at Fort A.P. Hill. The Phase III inventory serves as the PA under CERCLA. The 2002 closed, transferred, or transferring (CTT) range inventory report identified four CTT areas:

- Training Range Area 10,
- Training Range Area 16,
- Training Range Areas 20 & 21
- Training Range Area 30.

A historical records review (HRR) found that Training Range Area 10, Training Range Area 16, and Training Range Area 30 were FUDS eligible; therefore, are ineligible to be investigated under this active Army MMRP effort. Also, the Wilcox wastewater treatment plant (WWTP) was discovered as a potential new Munitions Response site (MRS) during the HRR process. The HRR report concluded that Training Range Areas 20 and 21 (FTAPH-003-R-01) and Wilcox WWTP are the only sites eligible for investigation under the MMRP. The FY09 site inspection (SI) report recommended a remedial investigation (RI) to address MEC at Training Range Areas 20 and 21. The SI recommended no further action (NFA) for the Wilcox WWTP.

The final RI report shows that neither MEC nor unexploded ordnance (UXO) were found on this site, eliminating the need for future remedial action (RA). The focused feasibility study (FFS) was completed in 2014 and the proposed plan (PP) and decision document (DD) were completed in early 2015. Efforts to complete the LUC plan are underway and the closure ESS will be completed in FY16.

## Cleanup Exit Strategy

The PP, DD, LUC plan and closure ESS are underway with a projected completion of FY16. Because munitions debris was found it is assumed LUCs and five-year reviews will be required.

## MMRP Previous Studies

|             | <b>Title</b>   | <b>Author</b>           | <b>Date</b> |
|-------------|--|-------------------------|-------------|
| <b>2002</b> | Closed, Transferring and Transferred Range/Site Inventory Phase 3 Report | USACE, Norfolk District | AUG-2002    |
| <b>2008</b> | Final Historic Records Review  | URS                     | FEB-2008    |
|             | Final Site Inspection  | URS                     | DEC-2008    |
| <b>2012</b> | Final RI Report, Training Range Areas 20 and 21                          | LATA-Matrix             | JUN-2012    |
| <b>2014</b> | Focused Feasibility Study  | Bay West                | MAY-2014    |
| <b>2015</b> | Final Decision Document  | Bay West                | FEB-2015    |

# **FORT A P HILL**

## **Military Munitions Response Program**

### **Site Descriptions**

**Site ID: FTAPH-003-R-01**  
**Site Name: TRAINING RANGE AREA 20 AND 21**

**STATUS**

**Regulatory Driver:** CERCLA  
**MRSPP Score:** 04  
Contaminants of Concern: Munitions and explosives of concern (MEC)  
Media of Concern: Soil

| <b>Phases</b> | <b>Start</b> | <b>End</b> |
|---------------|--------------|------------|
| PA.....       | 200202.....  | 200305     |
| SI.....       | 200705.....  | 200812     |
| RI/FS.....    | 201005.....  | 201608     |
| LTM.....      | 201610.....  | 204609     |

**RIP Date:** N/A  
**RC Date:** 201608

**SITE DESCRIPTION**

Training range areas 20 and 21 are comprised of approximately 150 acres located in the center of Fort A.P. Hill, north of Route 301. This area was used for light ground maneuver training from its acquisition in 1941 until 1996 when it was transferred to Caroline County for the construction of the Peumansend Creek Regional Jail. The Peumansend Regional Jail now occupies the site and actively uses approximately half of the 150-acre parcel, with the remainder left undisturbed.

The SI was completed in December 2008 and recommended the site for further investigation for MEC. The SI also recommended NFA for munitions constituents (MC).

The RI report was completed in 2012 and FS was completed in 2014. All field data and investigation results show that neither MEC nor UXO were found on this site, eliminating the need for future RAs. The small amount of munitions debris that was found is consistent with practice rounds/training aids and not with live-fire activities. The PP and DD were completed in 2014 and efforts to complete the LUC plan will be completed in 2015. The closure ESS will be completed in 2016. Following 2016 LTM program will commence, including annual and five-year reviews.

**CLEANUP/EXIT STRATEGY**

The PP and DD documents were completed in 2014 and efforts to complete the LUC plan and closure ESS are underway with a projected completion date in FY16. Since munitions debris was found the LTM will include LUCs and five-year reviews.

## Site Closeout (No Further Action) Summary

| Site ID        | Site Name                         | NFA Date | Documentation   |
|----------------|-----------------------------------|----------|---|
| FTAPH-001-R-01 | TRAINING RANGE AREA 10            | 200606   | Site has been made RC as it has been determined to be a duplicate of an existing FUDS site. |
| FTAPH-002-R-01 | TRAINING RANGE AREA 16            | 200606   | Site has been made RC as it has been determined to be a duplicate of an existing FUDS site. |
| FTAPH-004-R-01 | TRAINING RANGE AREA 30            | 200606   | Site has been made RC as it has been determined to be a duplicate of an existing FUDS site. |
| FTAPH-005-R-01 | WILCOX WASTEWATER TREATMENT PLANT | 200812   | Site Investigation Report, Dec 2008 recommended NFA for both MC and MEC.                    |

# MMRP Schedule

**Date of MMRP Inception** 200202

## Past Phase Completion Milestones

**2003**

PA (FTAPH-001-R-01 - TRAINING RANGE AREA 10, FTAPH-002-R-01 - TRAINING RANGE AREA 16, FTAPH-003-R-01 - TRAINING RANGE AREA 20 AND 21, FTAPH-004-R-01 - TRAINING RANGE AREA 30, FTAPH-005-R-01 - WILCOX WASTEWATER TREATMENT PLANT)

**2009**

SI (FTAPH-003-R-01 - TRAINING RANGE AREA 20 AND 21, FTAPH-005-R-01 - WILCOX WASTEWATER TREATMENT PLANT)

## Projected Phase Completion Milestones

See attached schedule

## Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

| Site ID | Site Name | ROD/DD Title | ROD/DD Date |
|---------|-----------|--------------|-------------|
|---------|-----------|--------------|-------------|

**Final RA(C) Completion Date:**

**Schedule for Next Five-Year Review:** 2021

**Estimated Completion Date of MMRP at Installation (including LTM phase):** 204609



# FORT A P HILL MMRP Schedule

= phase underway

| SITE ID        | SITE NAME                     | PHASE | FY16 | FY17 | FY18 | FY19 | FY20 | FY21+ |
|----------------|-------------------------------|-------|------|------|------|------|------|-------|
| FTAPH-003-R-01 | TRAINING RANGE AREA 20 AND 21 | RI/FS |      |      |      |      |      |       |
|                |                               | LTM   |      |      |      |      |      |       |

## Community Involvement

**Technical Review Committee (TRC):** None

**Community Involvement Plan (Date Published):** 201104

**Restoration Advisory Board (RAB):** No

**Reason Not Established:** The community has expressed no sufficient, sustained interest in a RAB.

**Community Interest Solicited on:** 201309

### **Efforts Taken to Determine Interest**

Public notices were published in September 2007, October 2009 and September 2013 in a local paper. Also at the installation's Community Council meeting in October 2011, the community participated and was briefed on the MMRP.

### **Results**

The public has consistently showed very little interest in Fort A.P. Hill's restoration program.

### **Follow-up Procedures**

Fort A.P. Hill will continue to try to involve the community in future actions and monitor any changes in community interest. A community relations plan was also prepared in 2011.

### **Additional Community Involvement Information**

There is very limited community interest in the MMRP at Fort A.P. Hill at this time. Efforts to involve the community in remediation actions resulted in lack of community interest.

### **Administrative Record is located at**

Fort A.P. Hill Environmental Division  
19952 North Range Rd  
Fort A.P. Hill VA 22427  
(804) 633-8255/8152

### **Information Repository is located at**

Caroline County Regional Library  
17202 Richmond Tpke  
Milford, Virginia 22514  
804-633-5455

**Current Technical Assistance for Public Participation (TAPP):**N/A

**TAPP Title:** N/A

**Potential TAPP:** N/A

