

FORT PICKETT ARNG MTC

Army Cleanup Program

Installation Action Plan

2023

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ACRONYMS

Acronym	Definition
AEDB-R	Army Environmental Database - Restoration
AOI	Area of Interest
ARNG	Army National Guard
bgs	Below ground surface
CAP	Corrective Action Plan
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
COC	Contaminants of Concern
DD	Decision Document
ENV	Environmental
GPS	Groundwater Protection Standards
FS	Feasibility Study
FY	Fiscal Year
HI	Hazard Index
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
mg/kg	Milligrams/kilograms
MR	Munitions Response
MRSP	Munitions Response Site Prioritization Protocol
MTC	Maneuver Training Center
N/A	Not Applicable
PA	Preliminary Assessment
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethylene
PFAS	Per- and poly-fluoroalkyl substances

Acronym	Definition
ppb	Parts per billion
ppm	Parts per million
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
SVOC	Semi-Volatile Organic Compound
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TPH	Total Petroleum Hydrocarbons
TRC	Technical Review Committee
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VDEQ	Virginia Department of Environmental Quality
VOC	Volatile Organic Compound
WBS	Work Breakdown Structure

PHASE TRANSLATION TABLE

HQAES Phase ID	CERCLA Phase	RCRA Phase	RCRA UST Phase
.01	Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
.02	Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
.03	Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
.04	Remedial Design (RD)	Design (DES)	Design (DES)
.05	Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
.06	Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
.07	Remedial Action (Operation) (RA(O))	Corrective Measures Implementation (Operation) (CMI(O))	Implementation (Operation) (IMP(O))
.08	Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

SITE ALIAS LIST

HQAES ID	AEDB-R Reference	Site Alias
51541.1001	FTPIC-01_FORMER PCB STORAGE AREA	--
51541.1003	PA-1_PA-1 (JUNKYARD)	--
51541.1005	PA-2_PA-2 (BUILDING 137)	--
51541.1007	PA-20_PA-20 (1500 STORAGE AREA)	PA-20
51541.1008	PA-21_PA-21 (1500 MOTOR POOL AREA)	--
51541.1010	PA-24_PA-24 (SALVAGE YARD)	--
51541.1011	PA-25_PA-25 (2300 MOTOR POOL AREA)	--
51541.1012	PA-26_PA-26 (BUILDING 2361 PAINT SPILL)	--
51541.1013	PA-28_PA-28 (FORMER BUILDING AREA)	--
51541.1014	PA-30_PA-30 (900 MOTOR POOL AREA)	--
51541.1015	PA-38_PA-38 (BUILDINGS 564 AND 564A)	--
51541.1016	PA-4_PA-4 (BUILDINGS 232 AND 240)	--
51541.1017	PA-8_PA-8 (GREASE TRAP)	--
51541.1018	FTPIC-333_TRIMBLE ROAD SANITARY LANDFILL	--
51541.1020	VA2020-04-P_FORT PICKETT ARNG MTC PFAS	--

FORT PICKETT ARNG MTC

INSTALLATION RESTORATION PROGRAM SITES

FTPIC-01_FORMER PCB STORAGE AREA

HQAES ID: 51541.1001

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/30/2009

RC Date: 9/30/2009

RC Reason: All Required Cleanup(s) Completed

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	6/30/1998	2/29/2000
SI	1/31/2000	9/30/2003
RI/FS	12/31/2004	4/30/2009
RD	4/30/2009	6/30/2009
IRA	--	--
RA(C)	6/30/2007	9/30/2009
RA(O)	--	--
LTM	10/15/2009	9/15/2054

Site Narrative

PA-35 is located in the central-western portion of the Fort Pickett Post. PA-35 is a 1.5-acre site containing a former Polychlorinated biphenyls (PCB) transformer storage concrete pad approximately 250 feet by 200 feet in size that is surrounded on 3 sides by 4-foot concrete side retaining walls built into the surrounding soil. An open, covered storage area is situated in the west corner of the larger concrete pad. A raised concrete pad with a 3-inch high concrete berm is located under the aluminum roof. The land surrounding the site is wooded with no immediately adjacent developed areas. A drainage swale conducts surface water from the northwest corner of the site to an unnamed tributary of the Hurricane Branch of the Nottoway River. Approximately 80 feet of the drainage swale is located within the PA-35 site boundary.

PA-35 was originally part of the hospital area. A coal storage silo along with two other hospital buildings (one of which was a steam plant) was originally located in this area. The coal storage silo still stands at the site. Only the footprint of the former steam plant and office building remains.

Historical activities at PA-35 have included the storage of PCB transformers, hazardous waste, and coal. The contaminants of potential concern (COPCs) that may have resulted from these activities at PA-35 include PCBs, semi-volatile organic compounds (SVOCs), and metals. A removal action was completed in September 2007 was to remove contamination identified during the Remedial Investigation (RI) in order to prevent future military trainees from potential unacceptable risk associated with direct contact with contaminated soils; and to prevent migration of contaminants of concern (COCs) from soil to groundwater. Approximately 930 cubic yards of concrete and soil was excavated from PA-35 during the removal action.

Based on the human health risk assessment (HHRA) from the September 2009 Final RI Report and Human and Ecological Risk Assessment for PA-35, the hazard index (HI) for the hypothetical future child resident exposed to overall site soils and groundwater was 6, exceeding the United States Environmental

Protection Agency (USEPA's) acceptable HI of 1. The major contributors to these exceedances for the future hypothetical child resident are iron in swale and overall site soil, and antimony in groundwater, if used as a drinking water source.

The September 2009 Decision Document (DD) states "with concurrence from Virginia Department of Environmental Quality (VADEQ), the Army has selected Alternative 4b for PA-35 – removal of soil with contaminant concentrations greater risk-based concentrations (RBCs) for unrestricted use." The DD is currently under review.

Restoration/Cleanup Strategy:

Five-year reviews will be done at this site.

PA-1_PA-1 (Junkyard)

HQAES ID: 51541.1003

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-1 (Junkyard) was a junkyard for metal and building debris and used telephone poles. The junkyard area encompasses approximately 200 feet by 100 feet. During the Site Inspection (SI), metals (aluminum, arsenic, chromium, iron, manganese, thallium, and vanadium) in soil exceeded the United States Environmental Protection Agency (USEPA) Region III Risk Based Concentrations for Carcinogenic Residential risk levels. A Risk Assessment was completed in Fiscal Year (FY)16.

An SI addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of No Further Action (NFA) was not fully justified using the existing data set. If the SI addendum does not support NFA, it will be used as the basis for further investigation leading to a Remedial Investigation/Feasibility Study (RI/FS), Proposed Plan (PP) and Record of Decision (ROD) for a Remedial Action (RA).

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-2_PA-2 (Building 137)

HQAES ID: 51541.1005

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-2 (Building 137) was located in the Maneuver Area Training Equipment Site Area on the corner of 7th Street and Rives Street in the Northwest Cantonment Area. The building has been demolished, and only the foundation remains. Scrap metal and Armored Personnel Carrier vehicles were being stored on the foundation. Building 137 was demolished in between 1994-1998. As part of the pre-demolition inspection, soil samples were collected at four locations and concentrations of Total Petroleum Hydrocarbons (TPH) (100-200 parts per million [ppm]) and lead (5,000 ppm) were detected. Concentrations of lead in exterior paint indicated that a lead-based paint had been used. TPH concentrations may be attributed to incidental release(s) of fuel or may be associated with an open storage area/debris pile that was noted during the aerial photo review of the site. A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-20_PA-20 (1500 Storage Area)

HQAES ID: 51541.1007

Alias: PA-20

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-20 (1500 Storage Area) is a former Storage Area for the 1500 motor pool (site PA-21). The site was located within the 1500 area, east of Building 1539. Reportedly, various petroleum products, paints, materials, and drums of petroleum contaminated soils were stored in this area. Additionally, an elevated waste [used] oil Underground Storage Tank (UST) was reported in this location. The existence of the used oil UST could not be confirmed during the site investigation. Three soil borings were advanced during Phase I of the Site Inspection. Analytes reported in soils at PA-20 included the Volatile Organic Compound (VOC) 1,2-Dichloroethene, and SVOCS bis(2-ethylhexyl)phthalate and di-n-butylphthalate. The VOCS/SVOCS detected in soils likely represents limited residual contamination from the former Storage Area. A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-21_PA-21 (1500 Motor Pool Area)

HQAES ID: 51541.1008

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-21 (1500 Motor Pool Area) is located within the Southeast Cantonment Area of the Post consisting of approximately 7.5 acres of land. This area was sampled during Phase I and Phase IA of the Site Inspection, and the sampling identified a limited area of soil with lead concentrations greater than the Virginia Voluntary Remediation Program Tier III remediation standard. The lead in soils likely represents limited residual contamination from the former wash rack and oil-water separator. A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-24_PA-24 (Salvage Yard)

HQAES ID: 51541.1010

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-24 (Salvage Yard) is located in the East Close-In Training Area, approximately 200 ft east of the intersection of Dearing Road and Hospital Road. The site is a five-acre fenced-in area surrounded by a gravel roadway and slopes toward the north. Woodland areas are present to the north and west. Scrap metal, tires, old vehicles, some tanks, and other miscellaneous debris were noted in the Salvage Yard during the site reconnaissance performed for the Preliminary Assessment. Much of the material that was stored in the Salvage Yard at the time of the site reconnaissance has since been removed. No evidence of container burial or ground staining was noted during site reconnaissance. According to second hand information, the area may have been used for burial of drums at depths of 10 to 15 feet below ground surface. A ground scar was visible to the north of the Salvage Yard in the 1949 aerial photography and was still visible in the 1994 photo. This may be the location of the presumed buried drums. Analytes reported in soils at PA-24 included Volatile Organic Compounds, carbon disulfide, toluene, chloroform, methylene chloride, bis(2-ethylhexyl)phthalate and several metals. A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-25_PA-25 (2300 Motor Pool Area)

HQAES ID: 51541.1011

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-25 (2300 Motor Pool Area) is located within the Southeast Cantonment Area of the Post. Land surface in this area slopes to the northeast. The area consists of approximately 21 acres bounded to the east by East 27th Street, to the west by a vacant lot, to the north by Dearing Avenue, and to the south by Kemper Avenue. The 2300 Motor Pool Area was previously used for vehicle maintenance and repair. The wash racks in the 2300 Motor Pool Area were decommissioned in approximately 1980. Review of the aerial photography of the area indicates that two wash racks were previously present in the area of the current recycling building, based on the 1949 photograph. In addition, staining is visible in 1949 next to the wash racks still present at the 2300 Motor Pool Area. Analytes reported in soils at PA-25 included the Volatile Organic Compounds carbon disulfide, methylene chloride, bis(2-ethylhexyl)phthalate and several metals. Staining could be the results of accidental spills or the lack of containment of rinse water during the cleaning process. A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-26_PA-26 (Building 2361 Paint Spill)

HQAES ID: 51541.1012

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-26 (Building 2361 Paint Spill) is a paint spill within the fenced recycling area of the 2300 Motor Pool Area (site PA-25) near Building 2361 that was noted by Woodward-Clyde during site reconnaissance for the Environmental Baseline Study (Woodward-Clyde, 1 997). Woodward-Clyde also reported a large pile of creosote-treated timbers in the southeast corner of the yard and sheen of runoff originating near used oil Above Ground Storage Tank along the western fence line. A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-28_PA-28 (FORMER BUILDING AREA)

HQAES ID: 51541.1013

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-28 is an area of demolished buildings located between East Parade Avenue, Kemper Avenue, East 23rd Street, and East 24th Street. Pentachlorophenol was detected at 300 parts per billion (ppb) in one soil sample collected from 10.5 to 12 feet below ground surface (bgs). The dilution-attenuation factor for pentachlorophenol is 14 ppb and was not detected in groundwater. The detection in soil was the same location for the groundwater sample. The residential risk based concentration for pentachlorophenol is 5,300 ppb. Arsenic was detected in a soil sample from 10.5 to 12 feet bgs at a concentration of 18.4 ppm. The other five soil samples with arsenic were below background concentrations (6 ppm). A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-30_PA-30 (900 MOTOR POOL AREA)

HQAES ID: 51541.1014

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-30 (900 Motor Pool Area) is located along Dearing Avenue in the Southeast Cantonment Area of Fort Pickett. Land surface within the area slopes gradually toward the southeast. The area consists of approximately eight acres of land (840 feet north-south by 420 feet east-west) bounded to the east by Dearing Avenue, to the west by Kemper Avenue, to the south by East 17th Street, and to the north by East 15th Street. Older site maps display a grease rack and a wash rack at the southeastern corner of the area. The wash rack was decommissioned approximately 20 years ago. The grease rack was demolished in 1997 to clear the area for additional crate storage. Samples were collected near the wash racks based on staining observed in the aerial photography and their long history of use. Analytes reported in soils at PA-30 included the Volatile Organic Compounds methylene chloride and chloroform. Numerous Semi-Volatile Organic Compounds and metals were also reported in soils at site PA-30. Staining could be the results of accidental spills or the lack of containment of rinse water during the cleaning process. A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-38_PA-38 (BUILDINGS 564 AND 564A)

HQAES ID: 51541.1015

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-38 (Buildings 564 and 564A) are located within the US Army Reserve 500 Motor Pool Area in the Southeast Cantonment area. The building contains six vehicle repair bays. During the Site Investigation, metals (aluminum, arsenic, chromium, iron, manganese, and vanadium) in soil exceeded the USEPA Region III Risk Based Concentrations for Carcinogenic Residential risk levels. A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-4_PA-4 (BUILDINGS 232 AND 240)

HQAES ID: 51541.1016

Alias: None

Regulatory Driver: RCRA UST

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
ISC	1/15/2000	2/15/2000
INV	7/14/2000	8/15/2000
CAP	9/15/2015	10/15/2028
DES	--	--
IRA	--	--
IMP(C)	--	--
IMP(O)	--	--
LTM	--	--

Site Narrative

Site PA-4 (Buildings 232 and 240) are contiguous structures and are located in the Northwest Cantonment Area. In September 1998, a closure assessment was performed for a 1,000 gallon diesel UST that was located adjacent to Building 239, approximately 80 feet east of Building 240. Soil samples collected beneath the location of the UST indicated TPH concentrations in the range of 10,900 milligrams per kilograms (mg/kg) to 23,500 mg/kg. In the winter of 1999, a tank containing No. 2 fuel oil reportedly ruptured and lost its contents adjacent to the 200 Area. Evidence of a petroleum hydrocarbon release was noted during the SI. This evidence included a visible sheen on groundwater, elevated photoionization detector readings above the water table, and strong petroleum odors in soil and groundwater. During the SI, metals (aluminum, arsenic, chromium, iron, and nickel) in soil exceeded the USEPA Region III Risk Based Concentrations for Carcinogenic Residential risk levels. A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

PA-8_PA-8 (GREASE TRAP)

HQAES ID: 51541.1017

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2028

RC Date: 10/15/2028

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	1/15/2000	2/15/2000
SI	7/15/2000	8/15/2000
RI/FS	9/15/2015	10/15/2028
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

Site PA-8 (Grease Trap) is a grease trap at Building 2461A that drained to a gravel leach pit. The site has been used for light vehicle maintenance training. According to an employee interview conducted as a component of the Environmental Baseline Study, a floor drain located in Building 2461A formerly drained to a gravel leach pit or grease trap outside the building. Petroleum staining was apparent (accidental release) in the recessed maintenance pit located inside Building 2461A. Three soil borings were advanced during Phase I of the Site Inspection along the western side of Building 2461A to determine if the area had been potentially impacted due to the presence of a grease trap adjacent to the building. Analytes reported in soils at PA-8 included the VOCs carbon disulfide, and bis(2ethylhexyl)phthalate. Chloroform and methylene chloride were also reported in soil samples. Numerous metals were also reported in soils at site PA-8. A Risk Assessment was completed in FY16. Further actions will be determined upon completion of the Risk Assessment review. Additional RI sampling will be done at this site. Future actions will be evaluated at that point. A SI Addendum contract was awarded in FY19 to complete a data gap investigation, since the previous SI conclusion of NFA was not fully justified using the existing data set. If the SI Addendum does not support NFA, it will be used as the basis for further investigation leading to a FS, PP and ROD for a RA.

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

FTPIC-333_TRIMBLE ROAD SANITARY LANDFILL

HQAES ID: 51541.1018

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSPP: Not assigned

RIP Date: 10/15/2025

RC Date: 10/15/2025

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	6/15/1998	2/15/2000
SI	1/15/2000	9/15/2003
RI/FS	6/15/2015	10/15/2025
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

The Fort Pickett Facilities Engineering Division was issued Solid Waste Management Permit Number 333 in August 1981 to operate a sanitary landfill. The Landfill is unlined and accepted waste from 1981 until 1991 and was permanently closed in 1994. The boundary of the Landfill encompasses 83.6 acres, while the capped Landfill disposal area is approximately 7 acres. The waste disposal method at the Landfill was trench and fill. The Permit was modified in February 2001 to incorporate Alternate Concentration Limits for Groundwater Protection Standards (GPS) and to modify the groundwater monitoring well network. In May 2006, the permit was modified again to incorporate five new wells under the Corrective Action process to be monitored within the frequency of the existing groundwater well network but are controlled by the Corrective Action Monitoring Plan (CAP). The CAP has been effective in restricting infiltration; however, several contaminants have migrated into the groundwater and have been detected above GPS. The cap remedy as implemented does not appear to be effective in reducing contaminate levels to below GPS. The data collected over the duration of the monitoring program indicate that the primary contaminants of concern (COCs) continue to be cobalt, 1,1-dichloroethane, tetrachloroethylene (PCE) and PCE degradation products, trichloroethylene, and vinyl chloride. Based on the lack of geologic and hydrogeologic data, the proposed remedy is under review by the Virginia Department of Environmental Quality (VDEQ). A proposed CAP is in development to address the remaining COCs associated with the Landfill. Landfill vents were installed and results are being assessed in hopes of a reduction of volatile organic compound (VOCs) in groundwater. Future costs will include groundwater and landfill gas sampling. A vent flare system may also be installed in case the gas levels increase dramatically.

Restoration/Cleanup Strategy: The Remedial Investigation (RI) has been funded at this site. A Feasibility Study (FS) is required and future actions will be evaluated at the end of the RI/FS phase.

VA2020-04-P_FORT PICKETT ARNG MTC PFAS CONTAMINATION

HQAES ID: 51541.1020

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/30/2029

RC Date: 9/30/2029

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	5/1/2020
SI	12/6/2019	5/04/2022
RI/FS	9/30/2022	9/30/2029
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

A Preliminary Assessment (PA) was completed at Fort Pickett ARNG MTC to assess potential per- and poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. Eleven Areas of Interest (AOIs) related to potential PFAS releases were identified at the Fort Pickett ARNG MTC during the PA. Based on the preliminary Conceptual Site Model developed for the AOI, there is potential for PFAS to be exposed to human receptors as a result of releases. A Site Inspection (SI) was completed at this site. The SI identified four sites, including AOI 1, AOI 3, AOI 5, and AOI 6, where a Remedial Investigation (RI) is warranted. Following the preparation of the Final SI, the Office of the Secretary of Defense (OSD) adopted the US Environmental Protection Agency’s May 2022 Regional Screening Levels (RSLs) for the evaluation of PFAS concentrations in the environment. Comparison of the SI results to the May 2022 RSLs resulted in the addition of three AOIs where an RI is warranted, including AOI 2, AOI 4, and AOI 8.

At AOI 1, perfluorooctane sulfonate (PFOS) and perfluorononanoic acid (PFNA) in soil exceeded the RSL of 13 micrograms per kilogram (µg/kg) and 19 µg/kg, with maximum concentrations of 63.2 µg/kg and 32.9 µg/kg at location FP-MW001 (0 to 2 feet below ground surface [bgs]). Perfluorooctanoic acid (PFOA) and PFOS in groundwater exceeded the RSLs of 6 nanograms/liter (ng/L) and 4 ng/L, with maximum concentrations of 2,780 ng/L (duplicate from FP-MW001) and 1,180 ng/L, respectively, at locations FP-MW001 and FP-MW003. Additionally, perfluorohexanesulfonic acid (PFHxS) and PFNA in groundwater exceeded the RSLs of 39 ng/L and 5.9 ng/L with maximum concentrations of 24,900 ng/L and 139 ng/L, respectively, at locations FP-MW003.

At AOI 2, PFOA in groundwater exceeded the RSL of 6 ng/L with a maximum concentration of 24.4 ng/L at location FP-MW006.

At AOI 3, PFOA and PFOS in soil exceeded the RSL of 19 µg/kg and 13 µg/kg, respectively, with maximum concentrations of 19.2 and 272 µg/kg at location AOI03-02 (0 to 2 feet bgs). Additionally, PFOA, PFOS, perfluorobutane sulfonic acid (PFBS), PFHxS, and PFNA in groundwater exceeded the SLs of 6 ng/L for PFOA, 4 ng/L for PFOS, 600 ng/L for PFBS, 39 ng/L for PFHxS and 5.9 ng/L PFNA, with maximum concentrations of 10,600 ng/L, 43,600 ng/L, 22,600 ng/L, 121,000 ng/L, and 269 ng/L respectively, at locations FP-MW009, FP-MW010, and FP-MW011.

At AOI 4, PFOS and in soil exceeded the RSL of 13 µg/kg, with a maximum concentration of 28.3 µg/kg at location FP-MW014 (0 to 2 feet bgs). PFHxS in groundwater exceeded the RSLs of 39 ng/L with a maximum concentration of 260 ng/L at location FP-MW013.

At AOI 5, PFOA, PFOS, and PFHxS in groundwater exceeded the RSLs of 6 ng/L for PFOA, 4 ng/L for PFOS and 39 ng/L for PFHxS, with maximum concentrations of 17.7 ng/L, 374 ng/L, and 273 ng/L, respectively at location FP-MW015.

At AOI 6, PFOS in soil exceeded the RSL of 13 µg/kg, with a maximum concentration of 96.1 µg/kg at location FP-MW019 (0 to 2 feet bgs). PFOA, PFOS, and PFBS in groundwater exceeded the RSLs of 6 ng/L for PFOA, 4 ng/L for PFOS, and 600 ng/L for PFBS, with maximum concentrations of 3,020 ng/L, 11,700ng/L, and 654 ng/L, respectively, at location FP-MW020. Additionally, PFHxS and PFNA in groundwater exceeded the RSLs of 39 ng/L and 5.9 ng/L with maximum concentrations of 5,780 ng/L and 119 ng/L, respectively, at location FP-MW020.

At AOI 8, PFOA and PFOS in groundwater exceeded the RSLs of 6 ng/L and 4 ng/L, with maximum concentrations of 7.62 ng/L and 7.34 ng/L, respectively, at locations TRL-MW-15 and TRL-MW-5.

Based on the results of the SI, further evaluation is warranted at AOI 1, AOI 2, AOI 3, AOI 4, AOI 5, AOI 6 and AOI 8 in an RI.

The subject site was tracked as 51541.1019 under the Compliance-related Cleanup (CC) program. In June 2022, this site was determined to be eligible for the Defense Environmental Restoration Program (DERP).

Restoration/Cleanup Strategy: A RI/Feasibility Study (FS) will be completed at this site. The RI was funded in Fiscal Year 2022 (FY22). FS costs will require future funding. Further actions cannot be determined until after the RI/FS is complete.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date	Program Code
51541.1002	BCT-001-R-01_PRACTICE BAZOOKA RANGE	4/30/2005	ENV Restoration, Army
51541.1004	CC-VA05003_1500-Motor Pool Area	9/30/2003	Compliance Cleanup
51541.1006	CC-VA05005_Junkyard	7/31/2003	Compliance Cleanup
51541.1009	CC-VA05011_Leaking UST at Building T-224	9/30/2006	Compliance Cleanup
51541.1019	VA2020-04-P_FORT PICKETT ARNG MTC PFAS CONTAMINATION	5/4/2022	Compliance Cleanup

COMMUNITY INVOLVEMENT

Technical Review Committee (TRC) Establishment Date:	N/A
Community Involvement Plan (Date Published):	09/2019
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Additional Community Involvement:	N/A
Administrative Record is located at:	FORT PICKETT ARNG-MTC NGVA-FM-E, BLDG 316 BLACKSTONE, VA 23824
Information Repository is located at:	BLACKSTONE LIBRARY 415 SOUTH MAIN STREET BLACKSTONE, VA 23824
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Review Summary Table

Status	Start Date	End Date
COMPLETE	10/1/2013	9/30/2014
FUTURE	01/15/2024	09/15/2024

ROD/DDs associated with the last Five-Year/Periodic Review

Associated ROD/DD Name	HQAES ID
DD FORMER PCB TRANSFORMER STORAGE AREA	51541.1001

Results, Actions & Plans

Results	Actions	Plans
The remedy at PA-35 is protective of human health and the environment.	There are no anticipated future actions for use of the site.	There are no anticipated plans for this site.

LAND USE CONTROLS (LUC) SUMMARY

ROD/DD	LUC Title	HQAES ID
DD FORMER PCB TRANSFORMER STORAGE AREA	DD FORMER PCB TRANSFORMER STORAGE AREA	51541.1001

VIRGINIA AVIATION SUPPORT FACILITY

Army Cleanup Program

Installation Action Plan

2023

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ACRONYMS

Acronym	Definition
AASF	Army Aviation Support Facility
AEDB-R	Army Environmental Database - Restoration
AOI	Area of interest
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
DERP	Defense Environmental Restoration Program
FS	Feasibility Study
HQAES	Headquarters Army Environmental System
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MRSPP	Munitions Response Site Prioritization Protocol
N/A	Not Applicable
Ng/L	Nanograms/Liter
PFAS	Per- and poly-fluoroalkyl substances
PFHxS	Perfluorohexane sulfonate
PFOS	Perfluorooctanesulfonic acid
PA	Preliminary Assessment
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision

Acronym	Definition
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
SL	Screening level
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TRC	Technical Review Committee
UST	Underground Storage Tank
WBS	Work Breakdown Structure

PHASE TRANSLATION TABLE

HQAES Phase ID	CERCLA Phase	RCRA Phase	RCRA UST Phase
.01	Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
.02	Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
.03	Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
.04	Remedial Design (RD)	Design (DES)	Design (DES)
.05	Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
.06	Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
.07	Remedial Action (Operation) (RA(O))	Corrective Measures Implementation (Operation) (CMI(O))	Implementation (Operation) (IMP(O))
.08	Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

SITE ALIAS LIST

HQAES ID	AEDB-R Reference	Site Alias
1110A.1005	VA2020-01-P_AASF BYRD FIELD PFAS CONTAMINATION	

VIRGINIA AVIATION SUPPORT FACILITY

INSTALLATION RESTORATION PROGRAM SITES

VA2020-01-P_AASF BYRD FIELD PFAS CONTAMINATION

HQAES ID: 1110A.1005

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/15/2030

RC Date: 9/15/2030

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	7/15/2020
SI	5/10/2020	9/15/2023
RI/FS	9/15/2023	9/15/2030
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

A Preliminary Assessment (PA) was completed at Army Aviation Support Facility (AASF) Byrd Field to assess potential per-and-poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. One area of interest (AOI) related to a potential PFAS release was identified at AASF Byrd Field during the PA. Based on a potential PFAS release at this AOI, there is potential for exposure to PFAS contamination in media at or near the facility.

A Draft Site Inspection (SI) was completed for this site. Based on the results of this SI, further evaluation is warranted for AOI 1: Flightline and Fuel Point. At AOI 1: perfluorooctanesulfonic acid (PFOS) and perfluorohexane sulfonate (PFHxS) in groundwater exceeded their screening levels (SLs). PFOS exceeded the SL of 4 nanograms/Liter (ng/L) with a concentration of 27.0 ng/L. PFHxS exceeded the SL of 39 ng/L with a concentration of 112 ng/L.

The subject site was tracked as 1110A.1004 under the Compliance Cleanup (CC) program. In Fiscal Year (FY) 23, this site was determined to be eligible under the Defense Environmental Restoration Program (DERP).

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) will be completed at this site. The RI is expected to be funded in FY23. FS costs will require future funding. Further actions cannot be determined until after the RI/FS is complete.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
1110A.1001	VANG-01_FUEL STORAGE AND DISPENSING	9/30/1993
1110A.1002	VANG-02_BLDG 3990, HAZMAT/WASTE STORAGE	9/30/1993
1110A.1003	VANG-03_AIRCRAFT/VEHICLE WASH AREA	9/30/1993
1110A.1004	CCVA2020-01-P_AASF BYRD FIELD PFAS CONTAMINATION	4/23/2023

COMMUNITY INVOLVEMENT

Technical Review Committee (TRC) Establishment Date:	N/A
Community Involvement Plan (Date Published):	TBD
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Additional Community Involvement:	Community involvement Plan, Administrative Record and Information Repository will be developed once the project progresses.
Administrative Record is located at:	TBD
Information Repository is located at:	TBD
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Review Summary Table

None

ROD/DDs associated with the last Five-Year/Periodic Review

None

Results, Actions & Plans

None

LAND USE CONTROLS (LUC) SUMMARY

None

CAMP PENDLETON SMR

Army Cleanup Program

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ACRONYMS

Acronym	Definition
AASF	Army Aviation Support Facility
AEDB-R	Army Environmental Database - Restoration
AOI	Area of interest
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
DERP	Defense Environmental Restoration Program
FS	Feasibility Study
HQAES	Headquarters Army Environmental System
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MRSP	Munitions Response Site Prioritization Protocol
N/A	Not Applicable
Ng/L	Nanograms/Liter
PFAS	Per- and poly-fluoroalkyl substances
PFBS	Perfluorobutane sulfonic acid
PFNA	Perfluorononanoic acid
PFOS	Perfluorooctanesulfonic acid
PA	Preliminary Assessment
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation

Acronym	Definition
RIP	Remedy-In-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
SL	Screening level
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TRC	Technical Review Committee
UST	Underground Storage Tank
WBS	Work Breakdown Structure

PHASE TRANSLATION TABLE

HQAES Phase ID	CERCLA Phase	RCRA Phase	RCRA UST Phase
.01	Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
.02	Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
.03	Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
.04	Remedial Design (RD)	Design (DES)	Design (DES)
.05	Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
.06	Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
.07	Remedial Action (Operation) (RA(O))	Corrective Measures Implementation (Operation) (CMI(O))	Implementation (Operation) (IMP(O))
.08	Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

SITE ALIAS LIST

HQAES ID	AEDB-R Reference	Site Alias
2534A.1004	CCVA2020-02-P_CAMP PENDLETON PFAS CONTAMINATION	--

CAMP PENDLETON SMR

COMPLIANCE CLEANUP SITES

CCVA2020-02-P_CAMP PENDLETON PFAS CONTAMINATION

HQAES ID: 2534A.1004

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/30/2038

RC Date: 9/30/2038

RC Reason: Not assigned

Program: Compliance Cleanup

Subprogram: CC

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	8/6/2020
SI	8/17/2020	4/30/2023
RI/FS	9/30/2031	9/30/2038
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

A Preliminary Assessment (PA) was completed at Camp Pendleton SMR to assess potential per- and poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. Three areas of interest (AOIs) related to potential PFAS releases were identified at Camp Pendleton based on PA data. The Naval Air Station Oceana base, the City of Virginia Beach Fire Training Center, and the 2012 Navy Jet Crash Site at the Mayview Apartments complex were identified as off-facility potential PFAS sources. Based on the possible releases of PFAS releases at the AOIs, there is potential for exposure to PFAS contamination in media at or near the facility.

A Final Site Inspection (SI) Report was completed at this site. Based on the results of this SI, further evaluation is warranted for AOI 2 and AOI 3. At AOI 2, perfluorooctanesulfonic acid (PFOS) was detected in groundwater at a concentration of 5.1 J nanograms/Liter (ng/L) which exceeds the screening levels (SL) of 4.0 ng/L. At AOI 3, PFOS and perfluorooctanoic acid (PFOA) were detected in groundwater at concentrations of 5.8 ng/L and 6.2 ng/L, which exceeds the SLs of 4.0 ng/L and 6.0 ng/L, respectively. Concentrations of Perfluorobutane sulfonic acid (PFBS) (1.1 ng/L) and perfluorononanoic acid (PFNA) (2.0 ng/L) were also detected at one location in AOI 3.

Restoration/Cleanup Strategy: An RI/Feasibility Study (FS) will be completed at this site. Further actions cannot be determined until after the RI/FS is complete.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date	Program Code
2534A.1001	MTACP-003-R-01_MANEUVER AREA	3/31/2005	ENV Restoration, Army
2534A.1002	MTACP-002-R-01_SMALL ARMS RANGE	3/31/2005	ENV Restoration, Army
2534A.1003	MTACP-001-R-01_MACHINE GUN RANGE	3/31/2005	ENV Restoration, Army

COMMUNITY INVOLVEMENT

Technical Review Committee (TRC) Establishment Date:	N/A
Community Involvement Plan (Date Published):	TBD
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Additional Community Involvement:	Community Involvement Plan, Administrative Record and Information Repository will be developed as the project progresses.
Administrative Record is located at:	TBD
Information Repository is located at:	TBD
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Review Summary Table

None

ROD/DDs associated with the last Five-Year/Periodic Review

None

Results, Actions & Plans

None

LAND USE CONTROLS (LUC) SUMMARY

None

CHESTERFIELD LIMITED

AASF

Army Cleanup Program

Installation Action Plan

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ACRONYMS

Acronym	Definition
AASF	Army Aviation Support Facility
AEDB-R	Army Environmental Database - Restoration
AFFF	Aqueous film forming foam
AOI	Area of interest
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
DERP	Defense Environmental Restoration Program
FS	Feasibility Study
FY	Fiscal Year
HQAES	Headquarters Army Environmental System
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MRSPP	Munitions Response Site Prioritization Protocol
N/A	Not Applicable
Ng/L	Nanograms/Liter
PFAS	Per- and poly-fluoroalkyl substances
PFHxS	Perfluorohexane sulfonate
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
PA	Preliminary Assessment
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act

Acronym	Definition
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
SL	Screening level
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TRC	Technical Review Committee
UST	Underground Storage Tank
WBS	Work Breakdown Structure

PHASE TRANSLATION TABLE

HQAES Phase ID	CERCLA Phase	RCRA Phase	RCRA UST Phase
.01	Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
.02	Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
.03	Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
.04	Remedial Design (RD)	Design (DES)	Design (DES)
.05	Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
.06	Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
.07	Remedial Action (Operation) (RA(O))	Corrective Measures Implementation (Operation) (CMI(O))	Implementation (Operation) (IMP(O))
.08	Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

SITE ALIAS LIST

HQAES ID	AEDB-R Reference	Site Alias
51A45.1002	VA2020-03-P_CHESTERFIELD LIMITED AASF_PFAS CONTAMINATION	

CHESTERFIELD LIMITED AASF

INSTALLATION RESTORATION PROGRAM SITES

VA2020-03-P_CHESTERFIELD LIMITED AASF_PFAS CONTAMINATION

HQAES ID: 51A45.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 9/15/2034

RC Date: 9/15/2034

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
PA	8/11/2017	7/15/2020
SI	8/17/2020	4/30/2023
RI/FS	9/15/2027	9/15/2034
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

A Preliminary Assessment (PA) was completed at Chesterfield Limited Army Aviation Support Facility (AASF) to assess potential per- and poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. The PA identified one potential PFAS release area at the facility, Building 7431, termed Area of Interest (AOI) 1. One potential PFAS release area was identified at the facility during the PA (AECOM 2020). A mobile Tri-Max™ fire extinguisher was observed to be staged outside the southern corner of the hangar during the visual site inspection. The PA also identified the Chesterfield County Fire Station #15 as an off-facility potential PFAS source and lies in the inferred downgradient groundwater flow path. The fire station conducts weekly spray pattern testing of aqueous film forming foam (AFFF) equipment in the field adjacent to and behind the fire station. Additionally, large quantities of AFFF were found housed in the fire station and also stored in a P-19 Aircraft Rescue and Fire Fighting vehicle and foam response trailer. A Final Site Inspection (SI) was issued in April 2023. At AOI1 perfluorooctane sulfonate (PFOS) exceeded the screening level (SL) for groundwater with a maximum concentration of 35 J nanograms/liter (ng/L). Perfluorooctanoic acid (PFOA) exceeded the SL in groundwater with a concentration of 7.0 J ng/L. additionally, the groundwater sample taken at the northwestern facility boundary exceeded the SL for PFOA and perfluorohexane sulfonate (PFHxS).

The subject site was tracked as 51A45.1001 under the Compliance Cleanup (CC) program. In Fiscal Year (FY) 23, this site was determined to be eligible under the Defense Environmental Restoration Program (DERP).

Restoration/Cleanup Strategy: A Remedial Investigation (RI)/Feasibility Study (FS) will be completed at this site. Further actions cannot be determined until after the RI/FS is complete.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date	Program Code
51A45.1001	VA2020-03-P_CHESTERFIELD LIMITED AASF_PFAS CONTAMINATION	4/23/2023	Compliance Cleanup

COMMUNITY INVOLVEMENT

Technical Review Committee (TRC) Establishment Date:	N/A
Community Involvement Plan (Date Published):	TBD
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Additional Community Involvement:	Community involvement Plan, Administrative Record and Information Repository will be developed once the project progresses.
Administrative Record is located at:	TBD
Information Repository is located at:	TBD
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Review Summary Table

None

ROD/DDs associated with the last Five-Year/Periodic Review

None

Results, Actions & Plans

None

LAND USE CONTROLS (LUC) SUMMARY

None