

# **JFHQ SC ARNG**

## **Army Cleanup Program**

### **Installation Action Plan**

2023

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## ACRONYMS

Acronym	Definition
AEDB-R	Army Environmental Database - Restoration
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
DoD	Department of Defense
ENV	Environmental
FS	Feasibility Study
FY	Fiscal Year
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
mg/kg	milligrams/kilogram
MRS	Munitions Response Site
MRSPP	Munitions Response Site Prioritization Protocol
NDNODS	Non-DoD Owned, Non-Operational Defense Sites
PA	Preliminary Assessment
PP	Proposed Plan
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
SCARNG	South Carolina Army National Guard
SI	Site Inspection
TAPP	Technical Assistance for Public Participation
TRC	Technical Review Committee
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

WBS Element	AEDB-R Reference	Site Alias
6915A.1004	CC_SCHQ-001-R-01_NDNODS C. WILLIAM W. MO	--

# JFHQ SC ARNG

## COMPLIANCE CLEANUP SITES

## CC\_SCHQ-001-R-01\_NDNODS C. WILLIAM W. MOORE/CAMP STYX

**HQAES ID:** 6915A.1004

**Alias:** None

**Regulatory Driver:** CERCLA

**RRSE:** Not assigned

**MRSPP:** Not assigned

**RIP Date:** 9/15/2020

**RC Date:** 9/15/2020

**RC Reason:** Other

**Program:** Compliance Cleanup

**Subprogram:** CC

<i>Phases</i>	<i>Start</i>	<i>End</i>
<b>PA</b>	4/30/2007	9/30/2009
<b>SI</b>	7/31/2010	9/30/2012
<b>RI/FS</b>	6/15/2016	9/14/2020
<b>RD</b>	--	--
<b>IRA</b>	--	--
<b>RA(C)</b>	9/15/2020	9/15/2020
<b>RA(O)</b>	--	--
<b>LTM</b>	9/16/2020	9/15/2054

### Site Narrative

The revised Non-DoD Owned, Non-Operational Defense Sites (NDNODS) Camp William W. Moore / Camp Styx munitions response Site (MRS) encompasses 4.5 acres in Lexington County, South Carolina. The MRS consists of a rifle range with two remaining impact berms supported by range wall constructed of brick and mortar. The range was used for annual training and as a mobilization camp by the 1st and 2nd Infantry Regiments of the South Carolina Army National Guard (SCARNG). The State Rifle Range, the subject MRS, was located at this camp. In addition to annual training typically one week in length, the range was periodically used for SCARNG National Competition practice. The range was used from 1913 until approximately 1929. Site Inspection field work was completed in 2011. No explosives were detected in the surface soil samples. Lead was detected in four of the biased samples at concentrations exceeding the screening criterion at this MRS. These samples were each collected from the Range Wall 1 impact area and ranged in concentrations of lead from 430 milligrams/kilogram (mg/kg) to 1,700 mg/kg. The Regional Screening level for lead is 400 mg/kg. A Remedial Investigation (RI) was completed. A Feasibility Study (FS) was completed in June 2019. A Proposed Plan (PP) was completed in February 2020. A Record of Decision (ROD) was completed and Land Use Controls (LUCs) were implemented in September 2020.

**Cleanup/Exit Strategy** An annual review of the facilities Master Plan will be completed along with five year reviews.



## SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
6915A.1001	SCHQ-001-R-01_NDNODS C. William W. Moore	9/30/2016
6915A.1002	SCHQ-001-R-02_NDNODS CAMP MOORE/CAMP STY	10/15/2012
6915A.1003	SCHQ-001-R-03_NDNODS CAMP WILLIAM W. MOO	9/15/2012

## COMMUNITY INVOLVEMENT

<b>Technical Review Committee (TRC) Establishment Date:</b>	N/A
<b>Community Involvement Plan (Date Published):</b>	May 2017
<b>Restoration Advisory Board (RAB) Establishment Date:</b>	N/A
<b>RAB Adjournment Date:</b>	N/A
<b>RAB Adjournment Reason:</b>	N/A
<b>Additional Community Involvement:</b>	A RAB solicitation was posted in local papers on 1 December 2018. Results are pending.
<b>Administrative Record is located at:</b>	South Carolina Army National Guard 1 National Guard Road Columbia, SC 29201-4766 803-806-1898
<b>Information Repository is located at:</b>	South Carolina Army National Guard 1 National Guard Road Columbia, SC 29201-4766 803-806-1898
<b>Current Technical Assistance for Public Participation (TAPP):</b>	N/A
<b>TAPP Title:</b>	N/A
<b>Potential TAPP:</b>	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

# **ALLENDALE**

## **Army Cleanup Program**

### **Installation Action Plan**

2023

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## ACRONYMS

Acronym	Definition
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
DoD	Department of Defense
ENV	Environmental
FS	Feasibility Study
FY	Fiscal Year
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MRSPP	Munitions Response Site Prioritization Protocol
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PFHxS	Perfluorohexanesulfonic acid
PFNA	Perfluorononanoic Acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
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

Acronym	Definition
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
TRC	Technical Review Committee
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

WBS Element	AEDB-R Reference	Site Alias
4812A.1002	SC2020-02-P_ALLENDALE PFAS CONTAMINATION	--

# ALLENDALE

## INSTALLATION RESTORATION PROGRAM SITES

## SC2020-02-P\_ALLENDALE PFAS CONTAMINATION

**HQAES ID:** 4812A.1002

**Alias:** None

**Regulatory Driver:** CERCLA

**RRSE:** Not assigned

**MRSPP:** Not assigned

**RIP Date:** 9/15/2031

**RC Date:** 9/15/2031

**RC Reason:** Not assigned

**Program:** ENV Restoration, Army

**Subprogram:** IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
<b>PA</b>	6/18/2018	10/16/2020
<b>SI</b>	5/10/2020	9/30/2023
<b>RI/FS</b>	9/15/2024	9/15/2031
<b>RD</b>	--	--
<b>IRA</b>	--	--
<b>RA(C)</b>	--	--
<b>RA(O)</b>	--	--
<b>LTM</b>	--	--

### Site Narrative

A Preliminary Assessment (PA) was completed at Allendale Armory to assess potential poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. One Area of Interest (AOI) related to potential PFAS release was identified at the facility during the PA. Based on potential PFAS releases at the AOI, there is a potential for exposure to PFAS contamination in media at or near the facility.

A Site Inspection (SI) was conducted. The SI concluded that a remedial investigation (RI) is warranted at AOI 1 - Maintenance Bay. Perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS) and perfluorohexanesulfonic acid (PFHxS) were detected in groundwater at concentrations above screening levels (SLs) at AOI 1.

The subject site was tracked as 4812A.1001 under the Compliance-related Cleanup (CC) program. In fiscal year (FY) 23, this site was determined to be eligible under the Defense Environmental Restoration Program (DERP) and the RI/Feasibility Study (FS) will proceed under DERP.

**Cleanup/Exit Strategy** An RI/FS will be conducted at AOI 1. Future actions will be determined by the results of the RI.

## SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
4812A.1001	CCSC2020-02-P_ALLENDALE PFAS CONT	4/25/2023

## COMMUNITY INVOLVEMENT

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



# **GREENVILLE (SC)**

## **Army Cleanup Program**

### **Installation Action Plan**

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## ACRONYMS

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ENV	Environmental
FS	Feasibility Study
FY	Fiscal Year
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MRSPP	Munitions Response Site Prioritization Protocol
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PFHxS	Perfluorohexanesulfonic acid
PFNA	Perfluorononanoic Acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
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RCRA	Resource Conservation and Recovery Act
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Acronym	Definition
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RIP	Remedy-In-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
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TAPP	Technical Assistance for Public Participation
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## PHASE TRANSLATION TABLE

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.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

WBS Element	AEDB-R Reference	Site Alias
4857A.1002	SC2020-01-P_GREENVILLE PFAS CONTAMINATI	--

# GREENVILLE (SC)

## INSTALLATION RESTORATION PROGRAM SITES

## SC2020-01-P\_GREENVILLE PFAS CONTAMINATI

**HQAES ID:** 4857A.1002

**Alias:** None

**Regulatory Driver:** CERCLA

**RRSE:** Not assigned

**MRSPP:** Not assigned

**RIP Date:** 3/31/2035

**RC Date:** 3/31/2035

**RC Reason:** Not assigned

**Program:** ENV Restoration, Army

**Subprogram:** IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
<b>PA</b>	8/11/2017	10/20/2020
<b>SI</b>	12/6/2019	9/30/2023
<b>RI/FS</b>	9/30/2028	3/31/2035
<b>RD</b>	--	--
<b>IRA</b>	--	--
<b>RA(C)</b>	--	--
<b>RA(O)</b>	--	--
<b>LTM</b>	--	--

### Site Narrative

A Preliminary Assessment (PA) was completed at Greenville (also known as Army Aviation Support Facility Upstate) to assess potential per- and poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. Two areas of interest (AOIs) were identified at the facility during the PA based on interviews and records. System testing at the hangars (AOI 1) resulted in a release of foam from the fire suppression systems in 2014. In addition, a second smaller release occurred in 2019 during quarterly inspection activities. Foam covered equipment was subsequently washed at the wash rack (AOI 2). Based on potential PFAS releases at the two AOIs, there may be potentially complete exposure pathways to on- and off-facility receptors.

A Site Inspection (SI) was conducted, which concluded that a remedial investigation (RI) is warranted for:

- AOI 1 – Hot and Cold Hangars; and
- AOI 2 – Wash Rack.

At AOI 1, perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS) and perfluorohexanesulfonic acid (PFHxS) were detected in groundwater at concentrations above their respective screening levels (SLs). At AOI 2, PFOA and PFOS were detected in groundwater above SLs. PFAS constituents were detected in soil but did not exceed soil SLs at either AOI.

The subject site was tracked as 4857A.1001 under the Compliance-related Cleanup (CC) program. The site has been approved for Defense Environmental Restoration Program (DERP) funding, and the RI will proceed under DERP.

**Cleanup/Exit Strategy** An RI will be conducted at AOI 1 and AOI 2. Future actions will be determined by the results of the RI.



## SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
4857A.1001	CCSC2020-01-P_GREENVILLE PFAS CONT	4/25/2023

## COMMUNITY INVOLVEMENT

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

# **LEESBURG TRAINING SITE**

**Army Cleanup Program**

**Installation Action Plan**

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## ACRONYMS

Acronym	Definition
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CMS	Corrective Measures Study
DD	Decision Document
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
ENV	Environmental
FS	Feasibility Study
FY	Fiscal Year
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MCL	Maximum Contaminant Level
MRSPP	Munitions Response Site Prioritization Protocol
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
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RIP	Remedy-In-Place

Acronym	Definition
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SAR	SWMU Assessment Report
SCARNG	South Carolina Army National Guard
SCDHEC	South Carolina Department of Health and Environmental Control
SI	Site Inspection
SL	Screening Level
SWMU	Solid Waste Management Unit
TAPP	Technical Assistance for Public Participation
TRC	Technical Review Committee
ug/L	micrograms per liter
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

WBS Element	AEDB-R Reference	Site Alias
4873A.1001	CC270961_SWMU 50	SC27096011

# LEESBURG TRAINING SITE

INSTALLATION RESTORATION PROGRAM SITES

## CC270961\_SWMU 50

**HQAES ID:** 4873A.1001

**Alias:** None

**Regulatory Driver:** RCRA

**RRSE:** Not assigned

**MRSPP:** Not assigned

**RIP Date:** 9/30/2008

**RC Date:** 9/30/2008

**RC Reason:** All Required Cleanup(s) Complete

**Program:** ENV Restoration, Army

**Subprogram:** IR

<i>Phases</i>	<i>Start</i>	<i>End</i>
<b>RFA</b>	1/31/1999	7/31/1999
<b>CS</b>	--	--
<b>RFI/CMS</b>	8/31/1999	3/31/2007
<b>DES</b>	--	--
<b>IRA</b>	--	--
<b>CMI(C)</b>	3/31/2007	9/30/2008
<b>CMI(O)</b>	--	--
<b>LTM</b>	10/31/2008	9/15/2053

### Site Narrative

The South Carolina Military Department discovered Solid Waste Management Unit (SWMU) 50 in the first quarter of 1999. The subject site is located north of a paved road extending from Golden Lion Road to Highway 601. A search by both South Carolina Army National Guard (SCARNG) and Fort Jackson personnel revealed no written documentation on SWMU 50. Therefore, discussions with present and former employees were used to develop site historical information. Former personnel recall performing periodic inspections of landfilling operations. At the time of the inspections, construction debris and inert materials were buried in on-site trenches. The trenches were oriented parallel with the paved road. The site appears to cover a 0.8 acre rectangular area where waste was previously disposed. The boundaries of SWMU 50 are defined by an earthen berm that extends around the margin of the former landfill area. Additionally, prior to the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI), the SWMU 50 area was covered with pine saplings that appeared to be approximately 15 years younger than the surrounding trees. The pine saplings were removed as part of the RFI work plan. The area is presently undeveloped.

The SCARNG notified the South Carolina Department of Health and Environmental Control (SCDHEC) of the discovery of a possible new SWMU in a letter dated April 26, 1999. A SWMU assessment report (SAR) was prepared by the SCARNG and submitted to the SCDHEC on Jul 13, 1999. The SCDHEC responded to the SAR by letter dated July 14, 1999 requesting that an RFI work plan be prepared for SWMU 50. The RFI was completed and submitted in December 2001. It was determined there was no impact from the waste to groundwater. During a meeting between representatives of the SCDHEC, SCARNG, Fort Jackson and the contractor on October 27, 2004, it was agreed that the preparation of a "streamlined" Corrective Measures Study (CMS) Report would be an appropriate course of action tailored to fit the minimal complexity of the site-specific remedial situation. A CMS Report was submitted to SCDHEC in October 2007 and a Corrective Measures Implementation (Construction) (CMI(C)) work plan was prepared and approved by SCDHEC. Groundwater samples collected in January 2010 indicated detections in one well for benzene at 8.3 micrograms per liter (ug/L) exceeding the Maximum

Contaminant Level (MCL) of 5.0 ug/L. In the same well, toluene was reported at 5.9 ug/L, which is below the MCL of 1,000 ug/L. All dissolved metals results were below MCLs. Since the January 2010 sampling event, volatile organic compounds (VOCs) and metal detections have been very low and well below applicable state and federal action levels. A five-year review began in fiscal year (FY) 13 and was finalized in FY14. The five-year review recommended groundwater sampling be discontinued at the site. The SCDHEC approved this recommendation. In FY17 the groundwater monitoring wells were abandoned.

**Cleanup/Exit Strategy** Annual landfill inspections and land use control (LUC) management will be completed. Five-year reviews will be completed in 2024, 2029, 2034, 2039, 2044 and 2049.

## SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
4873A.1003	CC270941_SWMU 44	11/30/2009
4873A.1004	CC270931_SWMU 39	9/30/2006

## COMMUNITY INVOLVEMENT

<b>Technical Review Committee (TRC) Establishment Date:</b>	N/A
<b>Community Involvement Plan (Date Published):</b>	January 2005
<b>Restoration Advisory Board (RAB) Establishment Date:</b>	N/A
<b>RAB Adjournment Date:</b>	N/A
<b>RAB Adjournment Reason:</b>	N/A
<b>Additional Community Involvement:</b>	A RAB is not required for this site. The site is already in the LTM phase so there are no outstanding cleanup issues at the installation.
<b>Administrative Record is located at:</b>	HQ, US Army Garrison, Fort Jackson DPW, Environmental Division 2563 Essayons Way, IMSE-JAC-PWE-E, (Tice) Fort Jackson, SC 29207-5670 803-751-5011
<b>Information Repository is located at:</b>	HQ, US Army Garrison, Fort Jackson DPW, Environmental Division 2563 Essayons Way, IMSE-JAC-PWE-E, (Tice) Fort Jackson, SC 29207-5670 803-751-5011
<b>Current Technical Assistance for Public Participation (TAPP):</b>	N/A
<b>TAPP Title:</b>	N/A
<b>Potential TAPP:</b>	N/A

## FIVE-YEAR / PERIODIC REVIEW SUMMARY

### Review Summary Table

Status	Start Date	End Date	End FY
COMPLETE	10/1/2018	6/30/2019	2019
COMPLETE	1/1/2013	6/30/2014	2014

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

Associated ROD/DD Name	Site WBS	Site Name
STATEMENT OF BASIS FOR SWMU 50	4873A.1001	CC270961_SWMU 50

### Results, Actions & Plans

Results	Actions	Plans
The remedy at Leesburg Former Construction Debris Landfill (SWMU 50) site is protective of human health and the environment.	Increase the level of analytical sensitivity in groundwater analysis so that the MCL and/or SCDHEC drinking water standard is at least three times the Limit of Detection, for all analytes.	Develop wells again to get a very clear sample for analysis. Possibly use a different laboratory with greater analytical sensitivity on groundwater samples containing low levels of lead and arsenic.



## LAND USE CONTROLS (LUC) SUMMARY

LUC Title	Site
LUC FOR SWMU 50	4373A.1001

# **MCENTIRE ANGB**

## **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
DoD	Department of Defense
ENV	Environmental
FS	Feasibility Study
FY	Fiscal Year
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MRSPP	Munitions Response Site Prioritization Protocol
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PFH <sub>x</sub> S	Perfluorohexanesulfonic acid
PFNA	Perfluorononanoic Acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
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
TRC	Technical Review Committee
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

WBS Element	AEDB-R Reference	Site Alias
4844A.1002	SC2020-04-P_MCENTIRE ANGB PFAS CONTAMINA	--

# **MCENTIRE ANGB**

## **INSTALLATION RESTORATION PROGRAM SITES**



## SC2020-04-P\_MCENTIRE ANGB PFAS CONTAMINA

**HQAES ID:** 4844A.1002

**Alias:** None

**Regulatory Driver:** CERCLA

**RRSE:** Not assigned

**MRSPP:** 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>
<b>PA</b>	11/7/2019	10/20/2020
<b>SI</b>	12/6/2019	9/30/2023
<b>RI/FS</b>	9/15/2023	9/15/2030
<b>RD</b>	--	--
<b>IRA</b>	--	--
<b>RA(C)</b>	--	--
<b>RA(O)</b>	--	--
<b>LTM</b>	--	--

### Site Narrative

A Preliminary Assessment (PA) was completed at McEntire Air National Guard Station/Army Aviation Support Facility (AASF) to assess potential poly-fluoroalkyl substances (PFAS) release areas and exposure pathways to receptors. Three areas of interest (AOIs) related to a potential PFAS release were identified at the McEntire AASF during the PA. Based on potential PFAS releases at these AOIs, there is potential for exposure to PFAS contamination in media at or near the facility.

A Site Inspection (SI) was performed, which concluded that a remedial investigation (RI) is warranted at:

- AOI 1 - Hangar 457;
- AOI 2 - Helicopter Apron and Hangar 456; and
- AOI 3 - Building 467 and Wash Rack.

At AOI 1, perfluorooctanesulfonic acid (PFOS) and perfluorohexanesulfonic acid (PFHxS) were detected in groundwater samples above their respective screening levels (SLs). At AOI PFOS, perfluorooctanoic acid (PFOA), PFHxS, perfluorononanoic acid (PFNA), and perfluorobutanesulfonic acid (PFBS) were detected in groundwater samples at concentrations above SLs. At AOI 3, PFOS was detected in surface soil above the SL. In groundwater, PFOA, PFOS and PFHxS were detected above respective SLs.

The subject site was tracked as 4844A.1001 under the Compliance-related Cleanup (CC) program. In fiscal year (FY) 23, this site was determined to be eligible under the Defense Environmental Restoration Program (DERP) and the RI/Feasibility Study (FS) will proceed under DERP. The RI will be funded under DERP during the current FY, and the FS will be awarded in the future.

**Cleanup/Exit Strategy** An RI/FS will be conducted at AOI 1, AOI 2 and AOI 3. Future actions will be determined by the results of the RI.

## SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date
4844A.1001	CCSC2020-04-P_MCENTIRE ANGB PFAS CONT	4/25/2023

## COMMUNITY INVOLVEMENT

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

# **MTA MCCRADY TRAINING SITE**

**Army Cleanup Program**

**Installation Action Plan**

2023

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## ACRONYMS

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DoD	Department of Defense
ENV	Environmental
FS	Feasibility Study
FY	Fiscal Year
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MRSPP	Munitions Response Site Prioritization Protocol
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PFHxS	Perfluorohexanesulfonic acid
PFNA	Perfluorononanoic Acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
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



Acronym	Definition
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
TRC	Technical Review Committee
WBS	Work Breakdown Structure

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.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

WBS Element	AEDB-R Reference	Site Alias
45C70.1001	CCSC2020-03-P_MCCRADY PFAS CONTAMINATI	--

# MTA MCCRADY TRAINING SITE

COMPLIANCE CLEANUP SITES

## CCSC2020-03-P\_MCCRADY PFAS CONTAMINATION

**HQAES ID:** 45C70.1001

**Alias:** None

**Regulatory Driver:** CERCLA

**RRSE:** Not assigned

**MRSPP:** Not assigned

**RIP Date:** 9/15/2031

**RC Date:** 9/15/2031

**RC Reason:** Not assigned

**Program:** Compliance Cleanup

**Subprogram:** CC

<i>Phases</i>	<i>Start</i>	<i>End</i>
<b>PA</b>	8/11/2017	10/5/2020
<b>SI</b>	5/10/2020	9/30/2023
<b>RI/FS</b>	9/15/2024	9/15/2031
<b>RD</b>	--	--
<b>IRA</b>	--	--
<b>RA(C)</b>	--	--
<b>RA(O)</b>	--	--
<b>LTM</b>	--	--

### Site Narrative

A Preliminary Assessment (PA) was completed at McCrady Training Site 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 release were identified at the site during the PA. Based on potential PFAS releases at these AOIs, there is potential for exposure to PFAS contamination in media at or near the facility.

A Site Inspection (SI) was conducted, which concluded that a remedial investigation (RI) is warranted at three AOIs:

- AOI 1 - Wash Rack and Fuel Point;
- AOI 2 - MTC Military Fire Station; and
- AOI 3 - MTC Civilian Fire Station.

At AOI 1 - perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS) and perfluorohexanesulfonic acid (PFHxS) were detected in groundwater at concentrations above screening levels (SLs). At AOI 2, PFOS, PFOA and perfluorononanoic acid (PFNA) were detected in groundwater at concentrations above their respective SLs. At AOI 3, PFOS was detected in groundwater above the SL in an upgradient well only.

During the fiscal year (FY) 23 Spring Data Call, it was assumed that the RI would be part of the current-year contract award. During the Roll-Forward period it was determined that the RI for the subject site would not be included in the FY23 contract award, and would be awarded in the future.

**Cleanup/Exit Strategy** An RI/Feasibility Study (FS) will be conducted. Future actions will be determined by the results of the RI.

## SITE CLOSEOUT SUMMARY

None

## COMMUNITY INVOLVEMENT

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