

COL S.B.I. DUNCAN
ARMORY & Army Aviation
Support Facility (AASF)
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
ARNG	Army National Guard
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DD	Decision Document
DERP	Defense Environmental Restoration Program
ENV	Environmental
EPA	Environmental Protection Agency
FS	Feasibility Study
FSS	Fire Suppression System
HQAES	Headquarters Army Environmental System
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MR	Munitions Response
MRSP	Munitions Response Site Prioritization Protocol
NPL	National Priorities List
OSD	Office of the Secretary of Defense
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
PFBS	Perfluorobutane sulfonic acid
PFHxS	Perfluorohexane sulfonic acid
PFNA	Perfluorononanoic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctane sulfonic acid

Acronym	Definition
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
SL	Screening Level
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
3029A.1002	DE2020-01-P_DUNCAN PFAS CONTAMINATION	- -

COL S.B.I. DUNCAN ARMORY & AASF

INSTALLATION RESTORATION PROGRAM SITES

DE2020-01-P_DUNCAN PFAS CONTAMINATION

HQAES ID: 3029A.1002

Alias: None

Regulatory Driver: CERCLA

RRSE: Not assigned

MRSP: Not assigned

RIP Date: 10/15/2030

RC Date: 10/15/2030

RC Reason: Not assigned

Program: ENV Restoration, Army

Subprogram: IR

Phases	Start	End
PA	08/06/2019	06/19/2020
SI	6/15/2020	6/15/2022
RI/FS	10/15/2023	10/15/2030
RD	--	--
IRA	--	--
RA(C)	--	--
RA(O)	--	--
LTM	--	--

Site Narrative

A Preliminary Assessment (PA) was completed at the Duncan Readiness Center and Army Aviation Support Facility (AASF), New Castle, Delaware to identify whether there has been a potential per- and polyfluoroalkyl substances (PFAS) release to the environment from the areas of interest (AOI) identified. The facility occupies 17.3 acres in New Castle, Delaware, adjacent to the New Castle Airport. A 1970's Army National Guard (ARNG) helicopter crash, which was extinguished with an unknown foam type, the runoff path and retention basin was identified as AOI 1 during the initial assessment. During the Site Inspection (SI) scoping meetings, an additional AOI (AOI 2) was also identified. The hangar's fire suppression system (FSS) currently houses Jet-X 2% high expansion foam. However, there is uncertainty as to what type of foam was contained in the FSS prior to the 2011 retrofitting. As a result, the ARNG conservatively operated under the potential for the historic (prior to 2011) fire suppression foam to be PFAS-containing.

A SI was completed at the Facility in March 2022. Based on the SI results, perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS), perfluorononanoic acid (PFNA), and perfluorohexane sulfonic acid (PFHxS) were detected at AOI 1 and associated boundary samples above the 6 July 2022 Office of the Secretary of Defense (OSD) screening levels (SLs) for groundwater. PFOA, PFOS, and PFHxS were detected at AOI 2 and the associated boundary sample above the OSD SLs for groundwater. Detected relevant compounds were below the residential and industrial soil SLs at AOI 1, AOI 2, and associated boundary samples. Based on the results of the SI, further evaluation of AOI 1 and AOI 2 are warranted in a Remedial Investigation (RI).

The subject site was tracked as 3029A.1001 under the Compliance-related Cleanup (CC) program. CC funding was used to complete work through the SI at this site. In June 2022, the site became Defense Environmental Restoration Program (DERP)-eligible.

In the Spring of 2023, the US EPA announced its decision to list the East Basin Road Groundwater Site on the National Priorities List (NPL). The Duncan RC and AASF are included within the footprint of this NPL site.

Cleanup Strategy: A RI/Feasibility Study (FS) is needed at this site. ARNG is awaiting further direction, as US EPA takes the lead.

SITE CLOSEOUT SUMMARY

HQAES ID	Site Name	Site Closeout Date	Program Code
3029A.1001	CCDE2020-01-P_DUNCAN PFAS CONTAMINATION	6/17/2022	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 all 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