FY2015

SIEVERS-SANDBERG USARC

Army Defense Environmental Restoration Program

Installation Action Plan

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Table of Contents

Statement of Purpose

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

In an effort to coordinate planning information between the environmental restoration manager, the 99th Regional Support Command (RSC), the US Army Environmental Command (USAEC), the Installation Management Command-Army Reserve Directorate (IMCOM-ARD), the executing agencies, regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules, and budgets for all major Army installation cleanup programs.

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

Acronyms

AEDB-CC	Army Environmental Database - Compliance-related Cleanup
AEDB-R	Army Environmental Database - Restoration
AOC	Area of Concern
BRAC	Base Realignment and Closure
CC	Compliance-related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CR	Compliance Restoration
DD	Decision Document
DERP	Defense Environmental Restoration Program
EBS	Environmental Baseline Survey
FRA	Final Remedial Actions
FS	Feasibility Study
FY	Fiscal Year
GPR	Ground Penetrating Radar
GW	Groundwater
HHRA	Human Health Risk Assessment
IAP	Installation Action Plan
IMCOM-ARD	Installation Management Command-Army Reserve Directorate
IR	Installation Restoration
IRA	Interim Remedial Actions
IRP	Installation Restoration Program
LTM	Long-Term Management
LUC	Land Use Control
MMRP	Military Munitions Response Program
NFA	No Further Action
NJ	New Jersey
NPL	National Priorities List
ODUSD (I&E)	Office of the Deputy Under Secretary of Defense (Installations & Environment)
OU	Operable Unit
PP	Proposed Plan
RA	Remedial Action
RA(C)	Remedial Action - Construction
RAB	Restoration Advisory Board
RC	Response Complete
RI	Remedial Investigation
RIP	Remedy-in-Place
ROD	Record of Decision
RSC	Regional Support Command
SI	Site Inspection
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TRC	Technical Review Committee
US	United States
USACHPPM	US Army Center for Health Promotion and Preventive Medicine
USAEC	US Army Environmental Command

Acronyms

USARC	US Army Reserve Command
USEPA	US Environmental Protection Agency
VOC	Volatile Organic Compound

Installation Information

Installation Locale

Installation Size (Acreage): 40
City: Pedricktown
County: Salem
State: New Jersey (NJ)
Other Locale Information

This property has been used by the US federal government since 1918. Over the years the property has been used as a support depot for the port of Philadelphia, ammunition storage, Nike Missile Master Command center, and general training for the Army. The site is currently unused and unoccupied.

Installation Mission

While not currently used, the installation most recently served as a reserve training center for multiple reserve units through classroom training.

Lead Organization

US Army Reserve

Lead Executing Agencies for Installation

99th RSC

Regulator Participation

Federal	Bob Wing, US Environmental Protection Agency (USEPA) Region 2
State	Anthony Cinque, NJ Department of Environmental Protection Phil Cole, NJ Department of Environmental Protection

National Priorities List (NPL) Status

SIEVERS-SANDBERG USARC is not on the NPL

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

Installation has no sites in RI phase.

Installation Program Summaries

CR

Primary Contaminants of Concern: Metals, Volatiles (VOC)

Affected Media of Concern: Groundwater, Soil

5-Year / Periodic Review Summary

5-Year / Periodic Review Summary

Status	Start Date	End Date	End FY
Planned	201808	202002	2020

5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
Decision Document for Soil and gw	CC Site 03

Land Use Control (LUC) Summary

LUC Title: LUC for Soil

Site(s): CC Site 03

ROD/DD Title: Decision Document for Soil and gw

Location of LUC

Land Use Control is not specified to a certain location in report and therefore applied to entire site, CC Site 03. However, land use control should be in smaller area adjacent to buildings 464 and 434 where areas of potential environmental concern for Arsenic are identified.

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

Types of Engineering Controls: None

Types of Institutional Controls: Restrictions on land use

Date in Place: 201309

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Documentation Date: N/A

LUC Enforcement: 5 Year Reviews

Contaminants: METALS

Additional Information

N/A

Cleanup Program Summary

Installation Historic Activity

This property has been used by the US federal government since 1918. Over the years the property has been used as a support depot for the port of Philadelphia, ammunition manufacturing and storage, housing for military personnel, Nike Missile Master Command center, storage for dredge material, and general training for the Army. The site is currently unused and unoccupied.

Installation Program Cleanup Progress

CR

Prior Year Progress: A LUC plan was drafted, but errors were found during its review. Contracting for a soil delineation study occurred which will remedy the LUC plan.

Future Plan of Action: The soil delineation study will be conducted. LUCs will either be refined or the site will be cleaned, allowing for unrestricted use.

SIEVERS-SANDBERG USARC

Army Defense Environmental Restoration Program
Compliance Restoration

CR Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 2/0

Installation Site Types with Future and/or Underway Phases

1 Contaminated Fill
(CC Site 04)

1 Contaminated Sediments
(CC Site 03)

Most Widespread Contaminants of Concern

Metals, Volatiles (VOC)

Media of Concern

Groundwater, Soil

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

Site ID	Site Name	Action	Remedy	FY
N/A				

Duration of CR

Date of CR Inception: 200301

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201712/201712

Date of CR completion including Long Term Management (LTM): 201712

CR Contamination Assessment

Contamination Assessment Overview

Environmental restoration activities include the Installation Restoration Program (IRP) and Military Munitions Response Program (MMRP). On Dec. 29, 2008, the Office of the Deputy Under Secretary of Defense for Installation and Environment, (ODUSD I&E), issued an interim policy for Defense Environmental Restoration Program (DERP) eligibility that rescinded the 1986 eligibility date for the IRP and the 2002 eligibility date for the MMRP. This made many sites previously addressed in the Army's Compliance-related Cleanup (CC) program eligible for the DERP. Sites that are now eligible for the IR program have been migrated from Army Environmental Database-Compliance-related Cleanup (AEDB-CC) and given the naming convention of other IR sites. The newly eligible sites are considered to be IR sites; however, they are being coded as CR in AEDB-R to distinguish them from the original Installation Restoration (IR) sites and IR metrics. Soil and groundwater have been impacted by metals and volatile organic compounds (VOC).

Cleanup Exit Strategy

LUCs are the proposed remedy.

CR Previous Studies

	Title	Author	Date
1991			
	Preliminary Site Assessment	RMC Environmental Services	APR-1991
1993			
	Ground Penetrating Radar (GPR) Survey	Versar	AUG-1993
1997			
	Environmental Baseline Survey	Woodward-Clyde	MAR-1997
	Underground Storage Tank System Closure	Earth Tech	AUG-1997
	Underground Storage Tank System Closure	Earth Tech	OCT-1997
	Results of GPR Surveys and Exploratory Excavations	Earth Tech	NOV-1997
2002			
	Remedial Action Report for Soil	ARCADIS	MAR-2002
2003			
	Environmental Baseline Survey	URS	JAN-2003
2005			
	Site Investigation of Specific Areas of Potential Environmental Concern	Kemron	JAN-2005
2006			
	Site Inspection Addendum	USACHPPM	JUN-2006
2007			
	Continued Site Investigation	USACHPPM	APR-2007
2008			
	Risk Assessment	USACHPPM	JAN-2008
	Human Health Risk Assessment	USACHPPM	MAY-2008
2013			
	Decision Document, Site CC Site 03	99th RSC	JAN-2013
	Comprehensive Site Assessment	Pars Environmental Inc	JAN-2013

SIEVERS-SANDBERG USARC

Compliance Restoration

Site Descriptions

Site ID: CC Site 03
Site Name: Lead and Arsenic in Soil

STATUS

Regulatory Driver: CERCLA

Contaminants of Concern: Metals, Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA	200301	200304
SI	200501	200601
RA(C)	201210	201610

RIP Date: N/A

RC Date: 201610

SITE DESCRIPTION

Sievers-Sandberg US Army Reserve Command (USARC) (aka Camp Pedricktown Reserve enclave) was once part of the larger installation, Camp Pedricktown. As a result of Base Realignment and Closure (BRAC) 1995, 47 acres of land were disposed of through the BRAC process, which left 40 acres to be retained by the US Army Reserves (present day Sievers Sandberg USARC property). In 2003, an Environmental Baseline Study (EBS) was performed on the property and several AOCs were confirmed.

Soil and groundwater sampling occurred in 2005 as part of a Site Inspection (SI) (Kemron, 2005) and arsenic in soil and metals and VOCs in groundwater were identified. An SI Addendum was performed resulting in the determination of the nature and extent of the soil and groundwater contamination (Kemron, 2006).

The constituents of potential concern in soil evaluated in the Human Health Risk Assessment (HHRA) were arsenic, cadmium, chromium, copper, lead, molybdenum and zinc. The results of the HHRA showed that the total carcinogenic risk levels identified in soil for future adult residents and industrial and construction workers were found to be within the levels considered safe by the US Environmental Protection Agency (USEPA) at the site (US Army Center for Health Promotion and Preventive Medicine (USACHPPM), 2008). This indicates that exposure to soil does not pose a health risk to future adult residents and industrial and construction workers, but it could pose a potential risk to the future child resident at the site. Most of the total risk is due to arsenic, which has been identified in a previous report to be associated with gravel material containing coal slag used to pave the roads near the warehousing area and identified in the vicinity of Buildings 434 and 464 (USACHPPM, 2006).

During fiscal year (FY)14 a record of decision/decision document (ROD/DD) amendment action was initiated. A re-evaluation of the site and site data support the separation of CC Site 03 into two separate operable units (OU); one that poses no risk to human health and the environment (designated OU1, the original site, CC Site 03) and one that retains LUCs as the originally selected RA to prevent unacceptable risks to human health and the environment (OU2; the new site Site 04). This proposed DD amendment documents closing OU1 with no further action (NFA) necessary. A public meeting for the PP was held on March 3, 2015. At the conclusion of comment period, a ROD amendment will be processed in house.

During FY14, a focused SI was performed to determine the limit and extent of the arsenic impacted soil area adjacent to Buildings 434 and 464. If the amendment to the DD is approved and executed, resulting in the parcelization of the site into two OUs then, the arsenic impacted study area will be designated as CC Site 04 in AEDB-R and the IAP tool. Future actions will include and remedial investigation (RI) and possibly a feasibility study (FS); if applicable. Results from the RI will determine the need for the performance of a FS that will present RA alternatives including a NFA option.

CLEANUP/EXIT STRATEGY

Currently performing arsenic delineation in areas of potential environmental concern identified in previous reports. In FY14, amendment of the DD begun. In the document, CC Site 03, will be separated from arsenic contaminated areas and LUC removed based on HHRA. A new site, CC Site 04, will be created in AEDB-R to account for area of potential concern with elevated concentrations of arsenic in soil.

Site ID: CC Site 04
Site Name: Arsenic in Soil

STATUS

Regulatory Driver: CERCLA

Phases	Start	End
PA	200301	201210
RI/FS	201503	201712

RIP Date: N/A

RC Date: 201712

SITE DESCRIPTION

This site is approximately 4 acres. It is located adjacent to buildings 434 and 464. Elevated levels of arsenic and lead are found at the site. Historical documents state that contamination is from the use of coal slag in the road base.

CLEANUP/EXIT STRATEGY

The cleanup strategy is currently unknown. An RI is currently underway with an option for the performance of a FS to be performed upon completion of the final RI report. The results of the RI/FS will provide data that will be used to evaluate potential site cleanup/exit strategy options.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation

There are no NFA sites

CR Schedule

Date of CR Inception: 200301

Past Phase Completion Milestones

2003

PA (CC Site 03 - Lead and Arsenic in Soil)

2006

SI (CC Site 03 - Lead and Arsenic in Soil)

2013

PA (CC Site 04 - Arsenic in Soil)

Projected Phase Completion Milestones

See attached schedule

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

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

Final RA(C) Completion Date: 201610

Schedule for Next Five-Year Review: 2020

Estimated Completion Date of CR at Installation (including LTM phase): 201712

SIEVERS-SANDBERG USARC CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
CC Site 03	Lead and Arsenic in Soil	RA(C)						
SITE ID	**SITE NAME**	**PHASE**	**FY16**	**FY17**	**FY18**	**FY19**	**FY20**	**FY21+**
CC Site 04	Arsenic in Soil	RI/FS						

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): TBD

Restoration Advisory Board (RAB): No

Reason Not Established: Installation has no sites in RI phase.

Additional Community Involvement Information

A newspaper solicitation went out in 2012 for the PP. No public responses were received. There is currently a proposed site for the RI phase: however, no sites exist that require RAB solicitation at this time.

Administrative Record is located at

99th RSC HEADQUARTERS
AFRC-SNJ-PW-E
5231 SOUTH SCOTT PLAZA
JOINT BASE MCGUIRE DIX LAKEHURST, NEW JERSEY 08640
IRP POC 609.562.7661

Information Repository is located at

99th RSC HEADQUARTERS
AFRC-SNJ-PW-E
5231 SOUTH SCOTT PLAZA
JOINT BASE MCGUIRE DIX LAKEHURST, NEW JERSEY 08640
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Current Technical Assistance for Public Participation (TAPP): N/A

TAPP Title: N/A

Potential TAPP: N/A