

FY2012

USARC LODI

Army Defense Environmental Restoration Program

Installation Action Plan

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Table of Contents

Statement Of Purpose.....	1
Acronyms.....	2
Installation Information.....	4
5-Year / Periodic Review Summary.....	5
Cleanup Program Summary.....	6
Compliance Restoration.....	7
CR Summary.....	8
CR Contamination Assessment.....	9
CR Previous Studies.....	10
Compliance Restoration Site Descriptions.....	11
CC SITE 08 TCE in groundwater.....	12
Compliance Restoration Site Closeout (No Further Action) Sites Summary.....	13
CR Schedule.....	14
Compliance Restoration Milestones.....	14
CR Schedule Chart.....	15

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 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, the regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules, and tentative budgets for all 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
CC	Compliance-related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation, and Recovery Act
CR	Compliance Restoration
DD	Decision Document
DERP	Defense Environmental Restoration Program
FRA	Final Remedial Action
FS	Feasibility Study
FY	Fiscal Year
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 Action
IRP	Installation Restoration Program
LTM	Long-Term Management
MMRP	Military Munitions Response Program
MR	Munitions Response
N/A	Not Applicable
NFA	No Further Action
NJDEP	New Jersey Department of Environmental Protection
NPL	National Priority List
ODUSD(I&E)	Office of the Deputy Undersecretary of Defense for Installation and Environment
PA	Preliminary Assessment
RA	Remedial Action
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RAB	Restoration Advisory Board
RC	Response Complete
RD	Remedial Design
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
TCE	Trichloroethylene
TRC	Technical Review Committee
USAEC	US Army Environmental Command
USAR	US Army Reserves
USARC	US Army Reserve Command

VOC Volatile Organic Compound

Installation Information

Installation Locale

Installation Size (Acreage): 4.47

City: Lodi

County: Bergen

State: New Jersey

Other Locale Information

The Alexander Hamilton USARC (US Army Reserve Command) is the official name for USARC Lodi. It is located on approximately 4.47 acres of land and is improved with a 43,000-square-foot reserve center [with a full basement and two groundwater (GW) sumps] and a 6,300-square-foot organizational maintenance shop.

Installation Mission

Training of US Army Reserve (USAR) units.

Lead Organization

Lead Executing Agencies for Installation

99th RSC

Regulator Participation

State

Stephen E. Maybury, NJDEP, Chief, Case Management Division

National Priorities List (NPL) Status

USARC LODI is not on the NPL

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

Installation is in the process of determining interest in establishing a RAB.

Installation Program Summaries

CR

Primary Contaminants of Concern: Volatiles (VOC)

Affected Media of Concern: Groundwater

5-Year / Periodic Review Summary

No 5-Year / Periodic Reviews have been scheduled

Cleanup Program Summary

Installation Historic Activity

The Alexander Hamilton USARC is located on approximately 4.47 acres of land and is improved with a 43,000-square-foot reserve center (with a full basement and two groundwater sumps) and a 6,300-square-foot organizational maintenance shop. The groundwater was sampled to determine if any contamination from the upgradient Maywood NPL site may have migrated onto the property. The results of the groundwater data showed that exceedances of volatile organic compounds (VOCs) (tetrachloroethene and trichloroethane) were present in the groundwater above NJDEP standards at concentrations as high as 100 micrograms per liter. At this time the source of contamination is still unknown.

Installation Program Cleanup Progress

CR

Prior Year Progress: A remedial investigation (RI) is underway to determine the nature and extent of the VOCs on-site.

Future Plan of Action: A remedial design (RD) and remedial action(construction) (RA(C)) phase is planned to design and install an effective RA system.

USARC LODI
Army Defense Environmental Restoration Program
Compliance Restoration

CR Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 1/0

Installation Site Types with Future and/or Underway Phases

1 Contaminated Ground Water
(CC SITE 08)

Most Widespread Contaminants of Concern

Volatiles (VOC)

Media of Concern

Groundwater

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: 200808

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201310/201512

Date of CR completion including Long Term Management (LTM): 201504

CR Contamination Assessment

Contamination Assessment Overview

VOCs have been observed in groundwater monitoring wells as well as basement sump pumps.

Cleanup Exit Strategy

The results from the RI will likely show that concentrations of VOCs in groundwater are still in excess of state standards and we believe that the risk assessment will identify an unacceptable risk to human health and the environment. The results of the FS will be used to identify the best long-term treatment technology. The remedial action (RA) chosen will be documented in a Decision Document. It is assumed that the most practicable RA will be to continue the carbon adsorption system placed in the IRA phase (connecting the sump pump water discharge pipe to a carbon filter to adsorb the VOCs and prevent further VOCs from entering the storm sewer system). If a different long-term treatment or containment RA is chosen, an RD and RA(C) phase will be used to design and install an effective RA system. The RA(O) phase will cover all operation and maintenance costs associated with the carbon filter system.

CR Previous Studies

	Title	Author	Date
2009	Environmental Baseline Survey	US Army Center for Health Promotion and Preventive Medicine	FEB-2009
2010	Environmental Baseline Survey, Phase II	US Army Public Health Command	MAY-2010

USARC LODI
Compliance Restoration
Site Descriptions

STATUS

Regulatory Driver: CERCLA

Phases	Start	End
PA.....	200808.....	200904
SI.....	200906.....	201001
RI/FS.....	201110.....	201209
RD.....	201210.....	201212
IRA.....	201103.....	201307
RA(C).....	201210.....	201310
RA(O).....	201303.....	201504
RIP Date:	201310	
RC Date:	201512	

SITE DESCRIPTION

The Alexander Hamilton USARC (aka Lodi USARC) is located on approximately 4.47 acres of land and is improved with a 43,000-square-foot reserve center (with a full basement and two groundwater sumps) and a 6,300-square-foot organizational maintenance shop. The 2007 Environmental Baseline Survey (EBS) concluded that groundwater contamination from the upgradient Maywood NPL site may have migrated onto the property. In response to the EBS findings, in 2008 two sump water samples were taken and exceedances of VOCs (tetrachloroethene and trichloroethane) were found.

In 2009, a site investigation was performed to characterize groundwater in relation to VOCs identified in the 2008 groundwater samples. Six monitoring wells were installed within the overburden aquifer, which were sampled for VOCs, in addition to two groundwater sumps. Concentrations of VOCs at one sump were approximately two orders of magnitude higher than concentrations at the most hydraulically downgradient overburden and at shallow bedrock wells associated with the Maywood site regionally upgradient of the USARC property. Although not excluded as a potential source, the groundwater analytical data generated at the site could not be used to conclude that the Maywood Superfund site was the major contributor to the groundwater contamination at the property.

An RI is currently underway to determine the nature and extent of the VOCs on-site. Additional wells in the unconsolidated and consolidated aquifer will be installed to better understand the direction, pathway, and/or location of the source(s) in FY2012. One of the unconsolidated aquifer wells will be located off-site and upgradient to determine if the source of VOCs is coming from an off-site source. The two sump pumps will be sampled and a risk assessment performed. Vapor intrusion monitoring in the basement of the Administration Building will also be performed to determine the risk to building occupants from the contaminated groundwater entering through the sumps. A feasibility study (FS) will be used to determine the potential treatment or containment technologies. An interim remedial action (IRA) in the form of a carbon filter will be installed to prevent further VOC-contaminated storm water intrusion.

CLEANUP/EXIT STRATEGY

The results from the RI will likely show that concentrations of VOCs in groundwater are still in excess of state standards and we believe that the risk assessment will identify an unacceptable risk to human health and the environment. The results of the FS will be used to identify the best long-term treatment technology. The remedial action (RA) chosen will be documented in a Decision Document. It is assumed that the most practicable RA will be to continue the carbon adsorption system placed in the IRA phase (connecting the sump pump water discharge pipe to a carbon filter to ad/absorb the VOCs and prevent further VOCs from entering the storm sewer system). If a different long-term treatment or containment RA is chosen, an RD and RA(C) phase will be used to design and install an effective RA system. The RA(O) phase will cover all operation and maintenance costs associated with the carbon filter system.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
There are no NFA sites			

CR Schedule

Date of CR Inception: 200808

Past Phase Completion Milestones

2009

PA (CC SITE 08 - TCE in groundwater)

2010

SI (CC SITE 08 - TCE in groundwater)

Projected Phase Completion Milestones

See attached schedule

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

To Be Determined

Final RA(C) Completion Date: 201310

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of CR at Installation (including LTM phase): 201504

USARC LODI CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
CC SITE 08	TCE in groundwater	RD						
		IRA						
		RA(C)						
		RA(O)						

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): TBD

Restoration Advisory Board (RAB): No

Reason Not Established: Installation is in the process of determining interest in establishing a RAB.

Additional Community Involvement Information

In February 2012, a public notice was published to announce the start of the RI and to determine the level of interest from the community. Any responses will be addressed.

Administrative Record is located at

Fort Dix
5231 South Scott Plaza
Fort Dix, New Jersey 08640
609-562-7661

Information Repository is located at

Fort Dix
5231 South Scott Plaza
Fort Dix, New Jersey 08640
609-562-7661

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

TAPP Title: N/A

Potential TAPP: N/A

