

FY2013

ATCHISON CAVES STORAGE FACILITY
Army Defense Environmental Restoration Program
Installation Action Plan

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Table of Contents

Statement Of Purpose.....	1
Acronyms.....	2
Installation Information.....	3
5-Year / Periodic Review Summary.....	4
Cleanup Program Summary.....	5
Installation Restoration Program.....	6
IRP Summary.....	7
IRP Contamination Assessment.....	8
IRP Previous Studies.....	9
Installation Restoration Program Site Descriptions.....	11
Site 1 Site 1.....	12
Installation Restoration Program Site Closeout (No Further Action) Sites Summary.....	13
IRP Schedule.....	14
Installation Restoration Program Milestones.....	14
IRP 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 (RAs).

In an effort to coordinate planning information between the restoration manager, the US Army Environmental Command (USAEC), Atchison Caves, Installation Management Command-Army Reserve Office (IMCOM-ARO), the executing agencies, the 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-R	Army Environmental Database - Restoration
AOC	Area of Concern
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	Contaminants of Concern
DD	Decision Document
DIPEF	Defense Industrial Plant Equipment Facility
DLA	Defense Logistics Agency
EE/CA	Engineering Evaluation/Cost Analysis
ER,A	Environmental Restoration, Army
FRA	Final Remedial Action
FY	Fiscal Year
GSA	General Services Administration
IAP	Installation Action Plan
IMCOM-ARO	Installation Management Command-Army Reserve Office
IRA	Interim Remedial Action
IRP	Installation Restoration Program
K	thousand
LTM	Long-Term Management
N/A	Not Applicable
NFA	No Further Action
NPL	National Priorities List
PA	Preliminary Assessment
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
RA	Remedial Action
RA(C)	Remedial Action, Construction
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RIP	Remedy-in-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
RSC	Regional Support Command
SI	Site Investigation
TAPP	Technical Assistance for Public Participation
TPH	Total Petroleum Hydrocarbon
TRC	Technical Review Committee
USACE	US Army Corps of Engineers
USAEC	US Army Environmental Command
USAR	US Army Reserves
USATHAMA	US Army Toxic and Hazardous Materials Agency
USEPA	US Environmental Protection Agency
VOC	Volatile Organic Compound

Installation Information

Installation Locale

Installation Size (Acreage): 125

City: Atchison

County: Atchison

State: Kansas

Other Locale Information

The Atchison Caves Storage Facility is located approximately three miles south of Atchison, Kansas, in a rural area on the western bank of the Missouri River.

The installation covers 125 acres of surface area and 60 acres of below-ground area available for storage.

Installation Mission

The facility was used to store military equipment and also served as a training area. The installation was sold to a private owner in May 2013.

Lead Organization

US Army Reserve

Lead Executing Agencies for Installation

88th Regional Support Command (RSC)

Regulator Participation

Federal	US Environmental Protection Agency (USEPA), Region 7
State	Kansas Department of Health and Environment

National Priorities List (NPL) Status

ATCHISON CAVES STORAGE FACILITY is not on the NPL

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

Installation at RIP/RC.

Installation Program Summaries

IRP

Primary Contaminants of Concern: Metals, Polychlorinated Biphenyls (PCB), 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

From 1886 to 1944 limestone was mined out of the caves. In 1944 the mining operation ceased, and the property was leased by the War Food Administration, which developed the facility for the storage of perishable foods. In 1952 ownership was transferred to the US Army Corps of Engineers (USACE); however, Army Materiel Command operated the facility. The Army stored industrial plant equipment and records in the caves. The Defense Logistics Agency (DLA) operated Atchison Caves from 1963 to 2003, when the US Army Reserves (USAR) took over ownership. The installation was sold to a private owner in May 2013.

Installation Program Cleanup Progress

IRP

Prior Year Progress: Required annual monitoring and landfill maintenance were performed.

Future Plan of Action: Long-term management (LTM) of the site will continue through 2032. During annual groundwater sampling, the integrity of the landfill cap is evaluated and reported.

ATCHISON CAVES STORAGE FACILITY
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IRP 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 Landfill
(Site 1)

Most Widespread Contaminants of Concern

Metals, Polychlorinated Biphenyls (PCB), Volatiles (VOC)

Media of Concern

Groundwater

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

Site ID	Site Name	Action	Remedy	FY
Site 1	Site 1	IRA	CAPPING	2000

Duration of IRP

Date of IRP Inception: 199901

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 200008/200008

Date of IRP completion including Long Term Management (LTM): 203209

IRP Contamination Assessment

Contamination Assessment Overview

In 1981, an installation assessment was completed, and in 1997 the preliminary site investigation (SI) engineering report was completed. In January 2000, an action memorandum was prepared to request and document approval of the non-time-critical removal actions for sites at the former Defense Distribution Depot Oklahoma - Atchison Facility.

Four sites were found to have total petroleum hydrocarbon (TPH) or polycyclic aromatic hydrocarbon (PAH) contamination; and in 2000, these four sites were remediated by source removal.

The construction debris landfill was discovered to have PCB in soils, and metals and VOC were discovered in groundwater near the landfill.

Cleanup Exit Strategy

An action memorandum was signed in 2000 for the site to conduct LTM of the construction debris landfill. Through an agreement with the Kansas Department of Health and the Environment, groundwater monitoring at the site began in 2003 and will continue for 30 years (until 2032). Trends will continue to be analyzed to determine if specific analytes can be dropped from sampling requirements.

The 88th RSC is in the process of transferring Atchison Caves to the General Services Administration (GSA). Upon transfer of the property, the GSA will assume monitoring responsibilities.

IRP Previous Studies

Year	Title	Author	Date
1981	Installation Assessment of Defense Industrial Plant Equipment Facility, Atchison, Kansas	ESE Inc. for USATHAMA	JUN-1981
1997	Preliminary Site Investigation Engineering Report, Defense Distribution Depot Oklahoma-Atchison Facility, Formerly the Defense Industrial Plant Equipment Facility (DIPEF), Atchison, Kansas Preliminary Investigation	Earth Tech	APR-1997
	EE/CA Approval Memorandum for Defense Distribution Depot Oklahoma-Atchison Facility (Formerly the DIPEF), Atchison, Kansas	Earth Tech	DEC-1997
1999	EE/CA Defense Distribution Depot Oklahoma-Atchison Facility, Atchison, Kansas	Earth Tech for USACE	JUN-1999
2000	Final EE/CA Action Memorandum, Defense Distribution Depot Oklahoma - Atchison Facility, Formerly the Defense Industrial Plant Equipment Facility, Atchison, Kansas	Earth Tech, a Tyco International LTD. Company for US Army Corps of Engineers, Huntsville, Alabama	JAN-2000
2003	1st Groundwater Monitoring Report at Landfill C/D Defense Distribution Depot Oklahoma Atchison Facility, Atchison, Kansas, March/April 2003 Sampling Event, Round 01	U.S. Army Corps of Engineers, Kansas City District	JUL-2003
	2nd Groundwater Monitoring Report at Landfill C/D, Defense Distribution Depot Oklahoma Atchison Facility, Atchison, Kansas, June 2003 Sampling Event, Round 02	U. S. Army Corps of Engineers, Kansas City District	AUG-2003
	3rd Groundwater Monitoring Report at Landfill C/D, Defense Distribution Depot Oklahoma Atchison Facility, Atchison, Kansas, September 2003 Sampling Event, Round 03	U.S. Army Corps of Engineers, Kansas City District	DEC-2003
2004	Field Activities Data Report for Long Term Groundwater Monitoring, Defense Distribution Depot Oklahoma Atchison Facility, Atchison, Kansas, December 2003 Sampling Event, Round 04	U.S. Army Corps of Engineers, Kansas City District	FEB-2004
	Field Activities Data Report For Long Term Groundwater Monitoring, Defense Distribution Depot Oklahoma Atchison Facility, Atchison, Kansas, March 2004 Semi-Annual Sampling Event, Round 05	U.S. Army Corps of Engineers, Kansas City District	JUN-2004
	6th Groundwater Monitoring Report at Landfill C/D, Defense Distribution Depot Oklahoma Atchison Facility, Atchison, Kansas, September 2004 Semi-Annual Sampling Event, Round 06	U. S. Army Corps of Engineers, Kansas City District	DEC-2004
2006	Field Activities Data Report, Quality Control Summary Report For The Annual Groundwater Monitoring and Landfill Inspection Of The Former Construction And Demolition Landfill, Atchison Strategic Storage Facility, Atchison, Kansas, Round 07	NWB Technology, LLC and SCS Engineers	MAR-2006
2007			

IRP Previous Studies

Year	Title	Author	Date
2007	Field Activities Data Report for the Annual Groundwater Monitoring And Landfill Inspection Of The Former Construction and Demolition Landfill, Atchison Strategic Storage Facility, Atchison, Kansas, Round 08	NWB Technology, LLC and SCS Engineers	FEB-2007
2008	Field Activities Data Report for the Annual Groundwater Monitoring And Landfill Inspection Of The Former Construction and Demolition Landfill, Atchison Strategic Storage Facility, Atchison, Kansas, Round 09	NWB Technology, LLC and SCS Engineers	FEB-2008
2009	Field Activities Data Report for the Annual Groundwater Monitoring And Landfill Inspection Of The Former Construction and Demolition Landfill, Atchison Strategic Storage Facility, Atchison, Kansas, Round 10	NWB Technology, LLC and SCS Engineers	JAN-2009
2010	Field Activities Data Report for the Annual Groundwater Monitoring And Landfill Inspection Of The Former Construction and Demolition Landfill, Atchison Strategic Storage Facility, Atchison, Kansas, Round 11	S&A Environmental Consultants and SCS Engineers	JUN-2010
2011	Field Activities Data Report for the Annual Groundwater Monitoring And Landfill Inspection Of The Former Construction and Demolition Landfill, Atchison Strategic Storage Facility, Atchison, Kansas, Round 12	S&A Environmental Consultants and SCS Engineers	JUN-2011
2012	Field Activities Data Report for the Annual Groundwater Monitoring And Landfill Inspection Of The Former Construction and Demolition Landfill, Atchison Strategic Storage Facility, Atchison, Kansas, Round 12	S&A Environmental Consultants and SCS Engineers	JUL-2012

ATCHISON CAVES STORAGE FACILITY
Installation Restoration Program
Site Descriptions

STATUS

Regulatory Driver: CERCLA

RRSE: LOW

Contaminants of Concern: Metals, Polychlorinated Biphenyls (PCB), Volatiles (VOC)

Media of Concern: Groundwater

Phases	Start	End
PA.....	199901.....	199907
SI.....	199908.....	200008
IRA.....	200006.....	200008
LTM.....	200309.....	203209

RIP Date: N/A

RC Date: 200008

SITE DESCRIPTION

This former DLA property is located on the eastern edge of the facility. The Missouri River runs about one-half to one-mile downgradient of the site. The closed landfill has a surface area of approximately 28,600 square feet (130 feet by 220 feet) with a depth of 20 feet.

The landfill was primarily used for the disposal of construction debris and the primary COC are VOCs in the groundwater.

In January 2000, an engineering evaluation/cost analysis (EE/CA) was performed by the USACE- Kansas City District, and an interim remedial action (IRA) of soils and installation of a Resource Conservation and Recovery Act (RCRA) Subtitle D cap on the construction debris landfill was performed later that year. Currently there are no releases that require any further remediation; however, LTM to include groundwater monitoring was part of the agreed remedy. In 2003 the USAR assumed property ownership. Groundwater monitoring began in 2003 and will continue until 2032. Property was sold to a private party in May 2013.

CLEANUP/EXIT STRATEGY

LTM consists of annual groundwater monitoring of six wells, monitoring of local rainfall events, and routine maintenance of the landfill cap. The new private owner will be responsible for LTM.

Site Closeout (No Further Action) Summary

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

IRP Schedule

Date of IRP Inception: 199901

Past Phase Completion Milestones

1999

PA (Site 1 - Site 1)

2000

SI (Site 1 - Site 1)

IRA (Site 1 - Site 1)

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
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Final RA(C) Completion Date:

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of IRP at Installation (including LTM phase): 203209

ATCHISON CAVES STORAGE FACILITY IRP Schedule

 = phase underway

SITE ID	SITE NAME	PHASE	FY14	FY15	FY16	FY17	FY18	FY19+
Site 1	Site 1	LTM						

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): 199808

Restoration Advisory Board (RAB): No

Reason Not Established: Installation at RIP/RC.

Additional Community Involvement Information

None

Administrative Record is located at

88th RSC
60 South O Street
Fort McCoy, Wisconsin 54656
608.388.7518

Information Repository is located at

Atchison Public Library
401 Kansas Avenue
Atchison, KS 66002
913.367.1902

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

TAPP Title: N/A

Potential TAPP: N/A

