

FY2016

TOOELE ARMY DEPOT SOUTH
Army Defense Environmental Restoration Program
Installation Action Plan

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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 US Army Environmental Command (USAEC), the Tooele Army Depot (TEAD), 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

ABP	Agent Breakdown Products
AEDB	Army Environmental Database
AEDB-CC	Army Environmental Database - Compliance-related Cleanup
AEDB-R	Army Environmental Database - Restoration
AMC	Army Materiel Command
AOC	Area of Concern
BRAC	Base Realignment and Closure
CAMDS	Chemical Agent Munitions Disposal System
CAP	Corrective Action Permit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CMI	Corrective Measures Implementation
CMI(C)	Corrective Measures Implementation - Construction
CMI(O)	Corrective Measures Implementation - Operations
CMS	Corrective Measures Study
CR	Compliance Restoration
CWA	Chemical Warfare Agent
CWM	Chemical Warfare Material
CY	Calendar Year
DCD	Deseret Chemical Depot
DCWD	Deseret Chemical Warfare Depot
DD	Decision Document
DEMIL	Demilitarization
DERP	Defense Environmental Restoration Program
DES	Design
DMM	Discarded Military Munitions
DoD	Department of Defense
ER,A	Environmental Restoration, Army
FRA	Final Remedial Action
FY	Fiscal Year
HWMU	Hazardous Waste Management Unit
IAP	Installation Action Plan
ID	Identification
IM	Interim Measures
IR	Installation Restoration
IRA	Interim Removal Action
IRP	Installation Restoration Program
MC	Munitions Constituents
MD	Munitions Debris
MDAS	Material Deemed As Safe
MEC	Munitions and Explosives of Concern
MMRP	Military Munitions Response Program
MR	Munitions Response
N/A	Not Applicable
NFA	No Further Action
NPL	National Priorities List

Acronyms

OB	Open Burning
OD	Open Detonation
PA	Preliminary Assessment
PCB	Polychlorinated Biphenyl
POL	Petroleum, Oil and Lubricants
PVC	Polyvinyl Chloride
RA	Remedial Action
RA(C)	Remedial Action-Construction
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision
SI	Site Inspection
SVOC	Semi-Volatile Organic Compound
SWMU	Solid Waste Management Unit
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TCA	Trichloroethane
TEAD	Tooele Army Depot
TOCDF	Tooele Chemical Agent Disposal Facility
TRC	Technical Review Committee
UDEQ	Utah Department of Environmental Quality
USACE	US Army Corps of Engineers
USACHPPM	US Army Center for Health Promotion and Preventive Medicine
USAEC	US Army Environmental Command
USATHAMA	US Army Toxic and Hazardous Materials Agency (currently called USAEC)
USEPA	United States Environmental Protection Agency
UT	Utah
UXO	Unexploded Ordnance
VOC	Volatile Organic Compound

Installation Information

Installation Locale

Installation Size (Acreage): 19364

City: Stockton

County: Tooele

State: Utah

Other Locale Information

The Tooele Army Depot-South (TEAD-S) is located on 19,364 acres and is approximately 50 miles southwest of Salt Lake City in Rush Valley, Tooele County, Utah (UT). The area surrounding the installation is a sparsely settled, rural area. Population density is approximately three persons per square mile in the valley, with nearly the entire population concentrated in a few communities. The small towns in the vicinity of the installation, including Rush Valley, Clover, St. John, Big Hollow, Vernon, Hogan's Ranch, and Stockton, have a combined population of approximately 1,200. The town of Ophir is set in a narrow mountain canyon, east of the depot, with a year-round population of approximately 30 residents.

Installation Mission

Tooele Army Depot's vision is to be the Department of Defense's (DoD) western region conventional ammunition hub and the DOD ammunition peculiar equipment center. The mission is to support Warfighter readiness through superior receipt, storage, issue, demil and renovation of conventional ammunition and the design, manufacture, fielding and maintenance of ammunition peculiar equipment. TEAD is committed to ensure proper environmental stewardship in all mission and mission support functions.

Lead Organization

Army Materiel Command (AMC)

Lead Executing Agencies for Installation

US Army Corps of Engineers (USACE), Huntsville District

US Army Environmental Command (USAEC)

US Army Corps of Engineers, Sacramento District

Regulator Participation

Federal US Environmental Protection Agency (USEPA), Region VIII

State Utah Department of Environmental Quality (UDEQ)

National Priorities List (NPL) Status

TOOELE ARMY DEPOT SOUTH is not on the NPL

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

RAB established 199901

Installation Program Summaries

IRP

Primary Contaminants of Concern: Metals, Volatiles (VOC)

Affected Media of Concern: Groundwater, Soil

MMRP

Primary Contaminants of Concern: Chemical weapon munitions (CWM)/Chemical agent, Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC), Semi-volatiles (SVOC), Volatiles (VOC), White Phosphorous

Affected Media of Concern: Groundwater, Sediment, Soil

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	201803	201903	2019

5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
Group 2 SWMUs 3, 5, 8, 9, and 30	TEAD(S)-03, TEAD(S)-05, TEAD(S)-09, TEAD(S)-23, TEAD(S)-26
No Further Action DD for SWMUs 26 & 28	TEAD(S)-17, TEAD(S)-19

Cleanup Program Summary

Installation Historic Activity

During World War II, the Defense Department ordered the construction of a storage depot for chemical agents. This facility was named the Deseret Chemical Warfare Depot (DCWD).

In May 1955, DCWD was redesignated the Deseret Chemical Depot (DCD) and placed under the command of TEAD. In 1962, the depot activity became part of TEAD and was designated as TEAD South Area. In October 1995, the south area was made a separate installation from TEAD and was named as Tooele Chemical Activity. In October 1996, Tooele Chemical Activity was officially renamed Deseret Chemical Depot. On July 11, 2013 DCD formally closed and the installation was transferred to and became known as Tooele Army Depot-South. The storage facility includes 208 earth covered magazines, two above ground magazines and 32 storage warehouses.

On June 30, 1989, UT issued a Resource Conservation and Recovery Act (RCRA) Hazardous Waste Permit for the Chemical Stockpile Disposal Plant. Attached to this permit was a corrective action permit (CAP) for 28 solid waste management units (SWMU). The CAP divided the SWMUs into known releases and suspected releases units and set schedules for the implementation of investigations and cleanups under RCRA. In 1991, a 29th SWMU was added to the permit. With the 2015 RCRA permit renewal only eight SWMUs remain active in the permit, with an additional four SWMUs listed in the post-closure plan and 14 AOCs listed in the permit.

The CAP was requested to be moved from the Tooele Chemical Agent Disposal Facility (TOCDF) permit to the then DCD RCRA hazardous waste permit and was approved in November 2000.

The Chemical Agent Munitions Disposal System (CAMDS)/TOCDF sites have completed their respective missions. Both sites have been demolished and their RCRA permits are in closure.

DCD closed on 11 July 2013 with the property transferring to Tooele Army Depot and being renamed once again Tooele Army Depot - South Area (TEAD-S).

Installation Program Cleanup Progress

IRP

Prior Year Progress: Annual groundwater monitoring for TEAD(S)-05 was completed.

Future Plan of Action: A supplemental RCRA facility investigation (RFI) and corrective measures study (CMS) has been contracted for TEAD(S)-17. A future RA will also be planned for TEAD(S)-17 upon completion of the CMS. Groundwater monitoring will continue for TEAD(S)-05 with a new well being installed.

MMRP

Prior Year Progress: The interim measures (IM) (surface clearance) fieldwork was completed in the Eastern Demilitarization (Demil) (DCD-002-R-01), and Western Demil (DCD-006-R-01). Draft final reports have been completed and are under review.

Future Plan of Action: Submit IM fieldwork reports for Gravel Pit DCD-003-R-01, Eastern Demil Area DCD-002-R-01 and Western Demil Area DCD-006-R-01 to the regulatory authority for approval. Obtain no further action (NFA) for Gravel Pit DCD-003-R-01. Commence RFI/CMS fieldwork for DCD-002-R-01 and DCD-006-R-01. Complete CMS and statement of basis for Combat Training Area DCD-001-R-01 and Old Demolition Pit DCD-004-R-01

CR

Prior Year Progress: The work plan for CC-001 and CC-003 was approved and fieldwork commenced. Contracting was completed for continued work in CC-002.

Future Plan of Action: Fieldwork for CC-004 is expected to be completed in fiscal year (FY)15 with an anticipated NFA being achieved. Additional work at CC-002 has been contracted with fieldwork anticipated in FY16 with an anticipated NFA being achieved. Fieldwork for the RFI will continue in FY16 for CC-001 and CC-003.

TOOELE ARMY DEPOT SOUTH
Army Defense Environmental Restoration Program
Installation Restoration Program

IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 21/19

Installation Site Types with Future and/or Underway Phases

- 1 Drainage Ditch
(TEAD(S)-05)
- 1 Landfill
(TEAD(S)-17)

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
TEAD(S)-14	DEACTIVATION FURNANCE (SWMU 17)	IRA	WASTE REMOVAL - SOILS	1991
TEAD(S)-05	DRAINAGE POND & PIT, BLDG 600 (SWMU 5)	IRA	FENCE OR OTHER SITE ACCESS CONTROL MEASURES	1995
TEAD(S)-32	SLAG PILES (SWMU 37)	IRA	WASTE REMOVAL - SOILS	1995
TEAD(S)-09	AREA 2 (SWMU 9)	FRA	FENCE OR OTHER SITE ACCESS CONTROL MEASURES	2003
TEAD(S)-26	SURVEILLANCE TEST SITE (SWMU 8)	FRA	WASTE REMOVAL - SOLIDS (NON-SOILS)	2003
TEAD(S)-32	SLAG PILES (SWMU 37)	FRA	WASTE REMOVAL - SLUDGES	2003
TEAD(S)-14	DEACTIVATION FURNANCE (SWMU 17)	FRA	INSTITUTIONAL CONTROLS	2004
TEAD(S)-05	DRAINAGE POND & PIT, BLDG 600 (SWMU 5)	FRA	OTHER	2011
TEAD(S)-03	DISPOSAL PIT (SWMU 3)	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	2014
TEAD(S)-20	LANDFILL, SCRAP METAL (SWMU 29)	FRA	OTHER	2014
TEAD(S)-28	BLDG 533 (SWMU 19)	FRA	OTHER	2014

Duration of IRP

Date of IRP Inception: 197912

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 202106/202106

Date of IRP completion including Long Term Management (LTM): 202606

IRP Contamination Assessment

Contamination Assessment Overview

Past operations at the installation have resulted in the generation of various types of contaminants and their disposal across the installation. Solvents, heavy metals and explosives are the primary contaminants, with chemical agent breakdown products (ABP) being detected at several sites.

An initial installation assessment in December 1979 and a follow-up investigation exploratory survey in 1982 investigated contamination. The conclusion of these investigations was that the installation was generally uncontaminated except for arsenic and gross-alpha and gross-beta radiation. The arsenic was hypothesized to be naturally occurring (exacerbated by local flooding that washed mine tailings from nearby mountains). Because there was no evidence or record of use, storage, or disposal of any radioactive material at the installation, this radiation was attributed to naturally occurring radionuclides.

The US Army Center for Health Promotion and Preventive Medicine (USACHPPM) (formerly known as the US Army Environmental Hygiene Agency), prepared a SWMU evaluation report in 1987 on all SWMUs at the installation to identify data gaps in the existing database for the RCRA Part B permit application that was pending for CAMDS. The USEPA performed a RCRA facility assessment at the installation in August 1987.

Because much information had been discovered since the initial assessment was prepared in 1979, and many changes to environmental laws had been enacted, a site-wide preliminary assessment (PA)/site inspection (SI) was completed in 1988. Seventeen sites were investigated. Four of the highest priority sites recommended for further study in the PA/SI were included in a remedial investigation (RI) in 1990. These sites were CAMDS Sites (TEAD[S]-12, SWMU 13), the Area 2 (TEAD[S]-09, SWMU 9), the Deactivation Furnace (TEAD[S]-14, SWMU 17), and the south general and perimeter areas.

Following the issuance of the CAP in 1989, the regulatory driver of the studies changed from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) to RCRA. Of the 29 SWMUs listed in the permit, two are categorized as known releases and the remaining 27 are grouped together as suspected releases.

Installation-wide groundwater monitoring has shown only low levels of contamination. This requires continued monitoring. No off-post contamination has been detected.

Cleanup Exit Strategy

The current action under the Installation Restoration Program (IRP) for DCD is to complete the soil gas investigation at SWMU 19 to determine the plan of action for this site, evaluate the excavation data and obtain closure for SWMU29, complete the Phase II addendum RFI for SWMU 26, complete the RFI and evaluate whether removals/CMS is needed in SWMU 27.

IRP Previous Studies

Year	Title	Author	Date
1979	Environmental Assessment of Tooele Army Depot, Report #141	USATHAMA	DEC-1979
1987	Final Interim RCRA Facility Assessment	NUS Corporation	DEC-1987
1988	Preliminary Assessment/Site Investigation Report	EA Engineering Science and Technology	DEC-1988
1989	RCRA Facility Assessment Summary Report	Donohue & Associates	OCT-1989
1990	RCRA Facility Investigation Phase I Final Summary Report for Known Releases Unit	Donahue and Associates	FEB-1990
	Phase I RFI Summary Report for Known Releases Units	EBASCO	MAR-1990
1991	Final Remedial Investigation Report	Roy F. Western	JAN-1991
1993	RCRA Facility Investigation-Phase I for Suspected Releases Revised Final Report Volume I - Text	EBASCO	JUL-1993
1995	Interim Final RFI Report for Group 1 Suspected Releases	EBASCO	NOV-1995
1996	Remedial Design for RCRA Sites	Jacobs Engineering	MAR-1996
	Remedial Design for Two RCRA Sites at TCA, Volume I	Jacobs Engineering and Kleinfelder	JUL-1996
	Remedial Action Work Plan for Two RCRA Sites	Davy International	OCT-1996
1997	Final Corrective Measures Study Work Plan for the Known Releases SWMUs	Rust Environment & Infrastructure	JAN-1997
	Final Phase II RCRA Facility Investigation Report, Known Releases SWMU 13 & 17	Rust Environmental & Infrastructure	APR-1997
	Hazardous and Medical Waste Study, Relative Risk Site Evaluation	USACHPPM	APR-1997
	Addendum to the Final Phase II Group 2 RFI Report	Foster Wheeler	DEC-1997
1998	Relative Risk Site Evaluation Scores for Five "Not-Evaluated" Sites at Deseret Chemical Depot	USACHPPM	JAN-1998
	Addenda to Project Workplans Sampling for Elevated Barium Concentrations in Soil	Kleinfelder	FEB-1998
	Revised Final Corrective Measure Study work Plan for SWMU 13 and 17	Rust Engineering & Infrastructure	MAY-1998
	Remedial Action at the Metal Scrap Landfill (SWMU 29)	Kvaerner Environmental	JUL-1998
1999	Sampling for Elevated Barium Concentrations in Soil at SWMU 22	Kleinfelder	JAN-1999

IRP Previous Studies

Year	Title	Author	Date
1999	Revised Final Phase II Report for Group 2 SWMUs	Foster Wheeler	FEB-1999
	Final CMS Report for Group 2 SWMUs	Foster Wheeler	OCT-1999
	Final DD for Group 2 SWMUs	Foster Wheeler	DEC-1999
2000	Final CMS for Known Releases SWMU 13	URS	JUN-2000
	Final CMS for Known Release SWMU 17	URS	JUN-2000
2001	Revised Final Decision Document for Known Release SWMU 13	URS	APR-2001
	Revised Final Decision Document for Known Release SWMU 17	URS	APR-2001
	Phase II RCRA Facility Investigation for Group 3 Suspected Releases Soil Waste Management Units Volume I - Final Report	SAIC	AUG-2001
2002	CMS for Group 2 SWMUs (11, 19, 20, 33, 37)	URS	JUL-2002
	DD for Group 2 SWMUs (11, 19, 20, 33, and 37)	URS	JUL-2002
	Phase II RCRA Facility Investigation Report for SWMU 22	Kleinfelder	SEP-2002
	Final Corrective Measure Work Plan for SWMU 5	Tetra Tech	NOV-2002
2003	Revised Final CMS Design Work Plan for SWMU 8	Kleinfelder	JAN-2003
	Preconstruction Documents for the 2002 Remedial Action at SWMU 5	Kleinfelder	FEB-2003
	Final Phase II RCRA Investigation Report for SWMU 22	Kleinfelder	MAR-2003
	Corrective Measures Completion Report for SWMU 37	Kleinfelder	JUL-2003
	Corrective Measures Completion Report for SWMU 08	Kleinfelder	NOV-2003
	Corrective Measures Study for SWMU 22	Kleinfelder	DEC-2003
2004	Final Corrective Measures Design Work Plan SWMU 22	Kleinfelder	JAN-2004
	Corrective Measures Completion Report for SWMU 5	North Wind	JUL-2004
	Final Corrective Measures Completion Report SWMU 22	Kleinfelder	NOV-2004
2005	Decision Document SWMU 22	USACE	APR-2005
2006	Addendum to Remedial Action at SWMU 3	Parsons	JAN-2006
	Final Work Plan for the Investigation of VOC Contamination in GW at SWMU 26	North Wind	MAR-2006
2007			

IRP Previous Studies

Year	Title	Author	Date
2007	Final Human Health/Ecological Risk Assessment for SWMU 19	USACE	JAN-2007
	Final Human Health/Ecological Risk Assessment	USACE	AUG-2007
2008	Final Human Health/Ecological Risk Assessment for SWMU 5	USACE	NOV-2008
2009	Final Project Work Plans for Geophysical Survey at SWMU 29.	Parsons	NOV-2009
2010	Draft Final Project Completion Report for Geophysical Survey at SWMU 29	Parsons	JUL-2010
2011	Final RCRA Facility Investigation Report SWMU 3	PARSONS	FEB-2011
	Final Completion Report for Soil Gas Survey at SWMU 19	PARSONS	AUG-2011
2012	Final RFI Addendum Work Plan for SWMU 27	Parsons	OCT-2012
	Final RFI Addendum Work Plan, SWMU 29	Terranear PMC	DEC-2012
2013	Final RFI Addendum Work Plan for SWMUs 18 and 28	Parsons	FEB-2013
	Final Completion Groundwater Sampling Report 2012, SWMU 5	DCD	APR-2013
	Hydrogeological Assessment and Recommendations Report	Parsons	JUL-2013
	Final Groundwater Sampling Completion Report for Solid Waste Management Unit (SWMU) 5	TEAD-S	AUG-2013
	Final Risk Assumptions Document Solid Waste Management Units and Other Corrective Action Sites, Revision 2	AQS	AUG-2013
	Final Report for Identification of Sites of Potential Concern (SPC) for Tooele Army Depot South Area (TEAD-S)	TEAD-S	NOV-2013
2014	Final Supplemental Corrective Measures Implementation Report for Solid Waste Management Unit (SWMU) 3	CH@Mhill	JAN-2014
	Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Addendum Report for Solid Waste Management Unit (SWMU) 19	Parsons	JAN-2014
	Final Closure Certification Report for HWMU 31	CH2MHill	FEB-2014
	Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report for Solid Waste Management Unit (SWMU) 26	ITSI Gilbane	MAY-2014
	Final Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Addendum Report for Solid Waste Management Unit (SWMU) 29	Terranear PMC	MAY-2014
	Final Closure Verification Sampling Report for Buildings	Pika Pirnie, JC, LLC	JUL-2014

IRP Previous Studies

2014

Title	Author	Date
4541 and 4539, Deseret Chemical Depot		
Voluntary Waste and Soil Removal Report for Building 5144 Munitions Debris Pile	TEAD-S	AUG-2014

TOOELE ARMY DEPOT SOUTH
Installation Restoration Program
Site Descriptions

Site ID: TEAD(S)-05

Site Name: DRAINAGE POND & PIT, BLDG 600 (SWMU 5)

STATUS

Regulatory Driver: RCRA
RRSE: MEDIUM
Contaminants of Concern: Metals
Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	197912.....	198812
CS.....	197912.....	198812
RFI/CMS.....	198708.....	200109
DES.....	200106.....	200209
IRA.....	199506.....	199509
CMI(C).....	200208.....	201103
LTM.....	201412.....	202109
RIP Date:	N/A	
RC Date:	201103	

SITE DESCRIPTION

Building 600 activities included chemical munitions and white phosphorus grenade renovation as well as the washout of high explosive cluster bombs from the late-1940s to early-1970s. The waste was drained into an unlined drainage pond (approximately 100 feet by 50 feet) east of the building. In addition, paint constituents and chromic acid were listed as potential contaminants in the groundwater and soil.

RFI sampling detected metals and VOCs in the soil. Recent sampling has not detected any contaminants of concern in groundwater.

The corrective measures implementation (CMI) work plan was finalized in September 2002. Hot spots were removed and backfilled with clean soil (FY04). A closure report was completed in 2004. A revised human health risk assessment was approved by UDEQ in January 2011. The SWMU boundary is now covering a drainage pond only. Permit modification has been approved. Based upon the Module VI of the installation's RCRA permit, groundwater monitoring is required for this site for a minimum of five years.

The Phase 1 installation site-wide groundwater monitoring requirements are specified in the Hydrogeological Assessment and Recommendations Report, November 2012. Phase 1 includes five years of groundwater monitoring at TEAD(S)-05.

CLEANUP/EXIT STRATEGY

Hexavalent chromium is required to be monitored for the next five years. UDEQ is requesting an additional source area/downgradient well which could extend the time frame of sampling beyond the five years. A permit modification would be required. Based on the results, this site could be granted NFA status.

Site ID: TEAD(S)-17
Site Name: SANITARY LANDFILL (SWMU 26)

STATUS

Regulatory Driver: RCRA

RRSE: LOW

Contaminants of Concern: Volatiles (VOC)

Media of Concern: Groundwater

Phases	Start	End
RFA.....	197912.....	198812
CS.....	197912.....	198812
RFI/CMS.....	198708.....	201707
DES.....	201707.....	201712
CMI(C).....	201801.....	202106
LTM.....	202106.....	202606

RIP Date: N/A

RC Date: 202106

SITE DESCRIPTION

This 44-acre landfill was used from 1956 to 1980. It is currently fully covered and is not accepting any waste material. The Phase I RFI found low levels of VOC in groundwater. Because wastes remain buried, long-term groundwater monitoring is recommended.

Trichloroethane below the maximum contaminant level has been detected in the downgradient well.

In 2007, a geophysical survey and soil gas sampling were conducted to determine the source of VOC contaminants and two additional monitoring wells were installed in 2008.

In 2013, an additional investigation was conducted which included trenching across potential contamination source areas based on previous soil gas sampling. Crushed drums were encountered. Additional geophysical surveys were conducted. It is recommended that the site be managed with waste in place. This will require a landfill cover, inspections, natural attenuation of groundwater contaminants and future groundwater monitoring.

CLEANUP/EXIT STRATEGY

The source of VOC contaminants will be investigated. Based on a final report of the investigation, a plan of action will be developed for this site.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
TEAD(S)-03	DISPOSAL PIT (SWMU 3)	201310	Final Supplemental Corrective Measures Implementation Report for Solid Waste Management Unit(SWMU)3
TEAD(S)-08	BLDG 3200 (SWMU 36)	199404	RCRA Facility Investigation Phase I. Revised Final Report. Volume 1. Ebasco.
TEAD(S)-09	AREA 2 (SWMU 9)	200306	TEAD-S Post Closure Plan Module VI, RCRA Permit
TEAD(S)-11	AREA 10 (SWMU 11)	200109	Corrective Measures Study and Decision Document SWMU 11. This site will be closed under Installation RCRA Hazardous Waste Management Unit (HWMU).
TEAD(S)-12	CAMDS SITE (SWMU 13)	200109	Corrective Measure Study and Decision Document Known Release SWMU 13. URS 2001/2002. This site is now under Compliance-Related Cleanup (CC) program.
TEAD(S)-13	OLD DEMO PIT (BLDG C4002) (SWMU 15)	199404	RCRA Facility Investigation - Phase I. Revised Final Report. Volume 1. Ebasco. July 1993. This site is now open under Munition Response Program.
TEAD(S)-14	DEACTIVATION FURNANCE (SWMU 17)	200409	Decision Document Known Release SWMU 17. URS. April 2001
TEAD(S)-16	DEMIL HOLDING AREA (SWMU 23)	199404	RCRA Facility Investigation - Phase I. Revised Final Report. Ebasco. July 1993. This site is now a portion of SWMU 31 Open Burn/Open Detonation (OB/OD).
TEAD(S)-18	STP & LAGOON (SWMU 27)	199312	RCRA Facility Investigation - Phase I. Revised Final Report. Volume 1. Ebasco. July 1993. This site is now reopen under Compliance-Related Cleanup (CC) Program.
TEAD(S)-19	Construction Debris Landfill SWMU28	201312	Final Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Addendum Report for Solid Waste Management Unit (SWMU) 28
TEAD(S)-20	LANDFILL, SCRAP METAL (SWMU 29)	201312	Final Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Addendum Report for Solid Waste Management Unit(SWMU)29
TEAD(S)-21	RAILROAD SCRAP YARD (SWMU 32)	199404	RCRA Facility Investigation - Phase I. Revised Final Report. Volume 1. Ebasco. July 1993.
TEAD(S)-26	SURVEILLANCE TEST SITE (SWMU 8)	200309	Final Corrective Measures Completion Report. Surveillance Test Site - SWMU 8. Kleinfelder. November 2003.
TEAD(S)-27	BLDG S-108 (SWMU 14)	199404	RCRA Facility Investigation - Phase I. Revised Final Report. Volume 1. Ebasco. July 1993.
TEAD(S)-28	BLDG 533 (SWMU 19)	201312	Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Addendum Report for Solid Waste Management Unit(SWMU)19
TEAD(S)-29	BLDG 520 (SWMU 20)	200112	Decision Document SWMU 20 - Building

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
			520 (Crating Facility). URS. July 2002.
TEAD(S)-30	BLDG 536 (SWMU 33)	200109	Decision Document SWMU 33 - Building 536. URS. July 2002. This site will be closed under RCRA Hazardous Waste Management Unit (HWMU).
TEAD(S)-31	BLDG 4105 (SWMU 34)	199404	RCRA Facility Investigation - Phase I. Revised Final Report. Volume 1. Ebasco. July 1993. This site will be closed under RCRA Hazardous Waste Management Unit (HWMU).
TEAD(S)-32	SLAG PILES (SWMU 37)	200307	Final Corrective Measures Completion Report Slag Piles and Bomb Fragments - SWMU 37. Kleinfelder. July 2003. This site is now reopened under Compliance-Related Cleanup (CC) Program.

IRP Schedule

Date of IRP Inception: 197912

Past Phase Completion Milestones

1989

CS (TEAD(S)-03 - DISPOSAL PIT (SWMU 3), TEAD(S)-05 - DRAINAGE POND & PIT, BLDG 600 (SWMU 5), TEAD(S)-08 - BLDG 3200 (SWMU 36), TEAD(S)-09 - AREA 2 (SWMU 9), TEAD(S)-11 - AREA 10 (SWMU 11), TEAD(S)-12 - CAMDS SITE (SWMU 13), TEAD(S)-13 - OLD DEMO PIT (BLDG C4002) (SWMU 15), TEAD(S)-14 - DEACTIVATION FURNANCE (SWMU 17), TEAD(S)-16 - DEMIL HOLDING AREA (SWMU 23), TEAD(S)-17 - SANITARY LANDFILL (SWMU 26), TEAD(S)-18 - STP & LAGOON (SWMU 27), TEAD(S)-19 - Construction Debris Landfill SWMU28, TEAD(S)-20 - LANDFILL, SCRAP METAL (SWMU 29), TEAD(S)-21 - RAILROAD SCRAP YARD (SWMU 32), TEAD(S)-26 - SURVEILLANCE TEST SITE (SWMU 8), TEAD(S)-27 - BLDG S-108 (SWMU 14), TEAD(S)-28 - BLDG 533 (SWMU 19), TEAD(S)-29 - BLDG 520 (SWMU 20), TEAD(S)-30 - BLDG 536 (SWMU 33), TEAD(S)-31 - BLDG 4105 (SWMU 34), TEAD(S)-32 - SLAG PILES (SWMU 37))

RFA (TEAD(S)-03 - DISPOSAL PIT (SWMU 3), TEAD(S)-05 - DRAINAGE POND & PIT, BLDG 600 (SWMU 5), TEAD(S)-08 - BLDG 3200 (SWMU 36), TEAD(S)-09 - AREA 2 (SWMU 9), TEAD(S)-11 - AREA 10 (SWMU 11), TEAD(S)-12 - CAMDS SITE (SWMU 13), TEAD(S)-13 - OLD DEMO PIT (BLDG C4002) (SWMU 15), TEAD(S)-14 - DEACTIVATION FURNANCE (SWMU 17), TEAD(S)-16 - DEMIL HOLDING AREA (SWMU 23), TEAD(S)-17 - SANITARY LANDFILL (SWMU 26), TEAD(S)-18 - STP & LAGOON (SWMU 27), TEAD(S)-19 - Construction Debris Landfill SWMU28, TEAD(S)-20 - LANDFILL, SCRAP METAL (SWMU 29), TEAD(S)-21 - RAILROAD SCRAP YARD (SWMU 32), TEAD(S)-26 - SURVEILLANCE TEST SITE (SWMU 8), TEAD(S)-27 - BLDG S-108 (SWMU 14), TEAD(S)-28 - BLDG 533 (SWMU 19), TEAD(S)-29 - BLDG 520 (SWMU 20), TEAD(S)-30 - BLDG 536 (SWMU 33), TEAD(S)-31 - BLDG 4105 (SWMU 34), TEAD(S)-32 - SLAG PILES (SWMU 37))

1991

IRA (TEAD(S)-14 - DEACTIVATION FURNANCE (SWMU 17))

1993

RFI/CMS (TEAD(S)-18 - STP & LAGOON (SWMU 27))

1994

RFI/CMS (TEAD(S)-08 - BLDG 3200 (SWMU 36), TEAD(S)-13 - OLD DEMO PIT (BLDG C4002) (SWMU 15), TEAD(S)-16 - DEMIL HOLDING AREA (SWMU 23), TEAD(S)-21 - RAILROAD SCRAP YARD (SWMU 32), TEAD(S)-27 - BLDG S-108 (SWMU 14), TEAD(S)-31 - BLDG 4105 (SWMU 34))

1995

IRA (TEAD(S)-05 - DRAINAGE POND & PIT, BLDG 600 (SWMU 5), TEAD(S)-32 - SLAG PILES (SWMU 37))

2001

RFI/CMS (TEAD(S)-05 - DRAINAGE POND & PIT, BLDG 600 (SWMU 5), TEAD(S)-09 - AREA 2 (SWMU 9), TEAD(S)-11 - AREA 10 (SWMU 11), TEAD(S)-12 - CAMDS SITE (SWMU 13), TEAD(S)-14 - DEACTIVATION FURNANCE (SWMU 17), TEAD(S)-26 - SURVEILLANCE TEST SITE (SWMU 8), TEAD(S)-30 - BLDG 536 (SWMU 33))

2002

DES (TEAD(S)-05 - DRAINAGE POND & PIT, BLDG 600 (SWMU 5), TEAD(S)-09 - AREA 2 (SWMU 9), TEAD(S)-14 - DEACTIVATION FURNANCE (SWMU 17), TEAD(S)-26 - SURVEILLANCE TEST SITE (SWMU 8))

RFI/CMS (TEAD(S)-29 - BLDG 520 (SWMU 20), TEAD(S)-32 - SLAG PILES (SWMU 37))

2003

DES (TEAD(S)-32 - SLAG PILES (SWMU 37))

CMI(C) (TEAD(S)-09 - AREA 2 (SWMU 9), TEAD(S)-26 - SURVEILLANCE TEST SITE (SWMU 8), TEAD(S)-32 - SLAG PILES (SWMU 37))

RFI/CMS (TEAD(S)-03 - DISPOSAL PIT (SWMU 3))

2004

CMI(C) (TEAD(S)-14 - DEACTIVATION FURNANCE (SWMU 17))

2011

CMI(C) (TEAD(S)-05 - DRAINAGE POND & PIT, BLDG 600 (SWMU 5))

2014

- CMI(C) (TEAD(S)-03 - DISPOSAL PIT (SWMU 3), TEAD(S)-20 - LANDFILL, SCRAP METAL (SWMU 29), TEAD(S)-28 - BLDG 533 (SWMU 19))
- RFI/CMS (TEAD(S)-19 - Construction Debris Landfill SWMU28, TEAD(S)-20 - LANDFILL, SCRAP METAL (SWMU 29), TEAD(S)-28 - BLDG 533 (SWMU 19))
- DES (TEAD(S)-20 - LANDFILL, SCRAP METAL (SWMU 29), TEAD(S)-28 - BLDG 533 (SWMU 19))

Additional Past Phase Completion Milestones

- 2003 RFI/CMS TEAD(S)-15 Incendiary Washout Basins (SWMU 22)
- 2004 CMI(C) TEAD(S)-15 Incendiary Washout Basin (SWMU 22)
- 2004 CMI(C) TEAD(S)-28 BLDG 533 (SWMU 19)
- 2005 RFI DCD-006-R-01 Western Demilitarization Area/Disposal Pit (SWMU 25)
- 2008 UXO/OE DCD-002/006-R-01 Eastern/Western Demilitarization Area/Disposal Pit (SWMU 1/25)
- 2010 CMI(C) TEAD(S)-20 Metal Scrap Landfill (SWMU 29)
- 2010 RFI DCD-R-002-R-01 Eastern Demilitarization Area/Disposal Pits (SWMU 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: 202106

Schedule for Next Five-Year Review: 2019

Estimated Completion Date of IRP at Installation (including LTM phase): 202606

TOOELE ARMY DEPOT SOUTH IRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
TEAD(S)-05	DRAINAGE POND & PIT, BLDG 600 (SWMU 5)	LTM						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
TEAD(S)-17	SANITARY LANDFILL (SWMU 26)	RFI/CMS						
		DES						
		CMI(C)						
		LTM						

TOOELE ARMY DEPOT SOUTH
Army Defense Environmental Restoration Program
Military Munitions Response Program

MMRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 6/2

Installation Site Types with Future and/or Underway Phases

- 1 Explosive Ordnance Disposal Area
(DCD-002-R-01)
- 1 Firing Range
(DCD-001-R-01)
- 2 Open Burn
(DCD-004-R-01, DCD-006-R-01)

Most Widespread Contaminants of Concern

Chemical weapon munitions (CWM)/Chemical agent, Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC), Semi-volatiles (SVOC), Volatiles (VOC), White Phosphorous

Media of Concern

Groundwater, Sediment, Soil

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

Site ID	Site Name	Action	Remedy	FY
DCD-002-R-01	EASTERN DEMIL/DISPOSAL PITS SWMU-1	IRA	WASTE REMOVAL - SOLIDS (NON-SOILS)	2015
DCD-006-R-01	WESTERN DEMIL/DISP PITS (SWMU 25)	IRA	WASTE REMOVAL - SOLIDS (NON-SOILS)	2015
DCD-003-R-01	GRAVEL PIT AREA (SWMU-02)	IRA	WASTE REMOVAL - WMM	2016

Duration of MMRP

Date of MMRP Inception 200209

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201812/201812

Date of MMRP completion including Long Term Management (LTM): 201812

MMRP Contamination Assessment

Contamination Assessment Overview

DoD has established the Military Munitions Response Program (MMRP) under the Defense Environmental Restoration Program (DERP) to address DoD sites with MEC including unexploded ordnance (UXO), discarded military munitions, and MC.

The US Army's inventory of Closed, Transferring, and Transferred military ranges and sites, identified sites eligible for action under MMRP. The MMRP eligible sites include other than operational ranges where UXO, discarded military munitions and MC are known or suspected and the release occurred prior to Sept. 30, 2002. Properties classified as operational ranges are not eligible and, therefore, are excluded from the MMRP.

The process began with three phases of range inventories. Phase I consisted of installations completing an initial data call. The USAEC managed the implementation of Phases II and III of the MMRP inventory.

The Phase II inventory dealt with active and inactive range considerations. The Phase III Army range inventory identified five installation sites as eligible for the MMRP. The Phase III inventory serves as the PA under CERCLA. The SI was completed in 2005.

An interim measures surface stabilization was conducted from 2011-2015 at sites DCD-002-R-01 Eastern Demil/Disposal Pits and DCD-006-R-01 Western Demil/Disposal Pits resulting in the recovery and treatment of more than 200,000 material posing a potential explosive hazard, munitions of explosive concern and discarded military munitions. Additionally, 235 recovered chemical weapons material items were identified, assessed and staged for future treatment. The investigation identified 76 burial pits and covered trenches, 69 open disposal trenches, 28 uncovered open burning (OB)/open detonation (OD) pits, 84 covered OB/OD craters, 27 surface disposal areas, 72 burn areas and 12 unknown disturbances. These will be investigated in the next phase.

The RI was conducted in 2012-2013 for sites DCD-001-R-01 Combat Training Area and site DCD-004-R-01 Old Demolition Pit. A statistical grided assessment was conducted with munitions of explosive concern and materials posing a potential explosive hazard being recovered. Soil contamination related to past munition firing and disposal operations were detected. Further investigation is warranted.

Cleanup Exit Strategy

RFI/CMS are planned to include the installation of groundwater monitoring wells. In addition, a MEC site characterization and removal assessment, an MC soil excavation and MEC removal action are expected. Institutional controls and MEC monitoring may be needed.

MMRP Previous Studies

Year	Title	Author	Date
1993	Phase I RFI Revised Final Report	Ebasco	JUL-1993
1997	Relative Risk Site Evaluation	US Army Center for Health Promotion and Prevention Medicine	APR-1997
2005	Final Historical Records Review	Tech Law	APR-2005
	Final Site Inspection Report	Tech Law	DEC-2005
2006	Final Report of Investigation at SWMU 25 West Demilitarization Disposal Pits	ITSI, Inc	APR-2006
2008	After Action Report Anomaly Avoidance Surveys of UXO/OE of the Unpaved Roadways for SWMUs 1 and 25	Parsons	AUG-2008
2012	Final Soil gas Sampling Completion Report for Eastern Demilitarization Area/Disposal Pits	Kleinfelder	APR-2012
	Final Work Plan for Surface Stabilization at SWMUs 1 and 25	Shaw	JUN-2012
	Final Work Plan for Remedial Investigation of DCD-004-R-01 and DCD-001-R-01	ITSI Gilbane	OCT-2012
	Final Interim Remedial Action Work Plan for SWMU 2	UXB Kemron	OCT-2012
2013	Final Work Plan Addendum 1 Surface Stabilization and Aerial Geophysics at SWMUs 1 and 25	Shaw	MAR-2013
2014	Remediation Investigation Report for Combat Training Area, Old Demolition Pit, and Solid Waste Management Unit (SWMU) 15	ITSI	AUG-2014

TOOELE ARMY DEPOT SOUTH
Military Munitions Response Program
Site Descriptions

Site ID: DCD-001-R-01
Site Name: COMBAT TRAINING AREA

STATUS

Regulatory Driver: RCRA
MRSPP Score: 03
Contaminants of Concern: Munitions and explosives of concern (MEC)
Media of Concern: Soil

Phases	Start	End
RFA.....	200209.....	200305
CS.....	200407.....	200510
RFI/CMS.....	201003.....	201612
RIP Date:	N/A	
RC Date:	201612	

SITE DESCRIPTION

The closed combat training area is located in north-central portion of the installation and encompasses approximately 59 acres. The US Chemical Corps built the training area in the 1940s and used it until the 1950s. It consisted of a handgun range, a combat assault course, a 500-yard rifle range, a hand grenade range, and a rifle grenade/bazooka range. Only practice munitions were utilized on this former range. The hand grenades did include spotting charges. There was also a mortar range where dummy rounds were used. During the 1950s and 1960s, the range was open on an annual basis to civilians to sight hunting weapons.

The combat assault course consisted of machine guns, at fixed positions, which were fired over Soldiers while they crawled under barbed wire. Soldiers also maneuvered around explosives detonated within the combat assault course. Typically, these explosives would have consisted of M80 firecrackers or Mark 2 firecrackers and hand thrown simulators such as the hand grenade M116A1, the explosive booby trap flash M117, the projectile ground burst M115A2, and other newer simulators. All of these are considered pyrotechnics, and generally have less than one-quarter-pound of flash powder, similar to that of a firecracker.

The National Guard and the installation security force used the combat training area throughout the 1970s for rifle and shotgun training. Today, remaining remnants of the former range consist of machine gun mounts, an old tank that was used for target practice, and berms and U-shaped boxes from the hand grenade course. A surface clearance of the area was conducted after a fire burned through the range in 1997. The site remains otherwise undeveloped. The SI was completed in FY05 and the site was recommended for further investigation.

In 2014, an RFI which included digital geophysical mapping, intrusive investigation and soil sampling was completed. Results include finding MEC and munitions debris (MD) throughout the site and polycyclic aromatic hydrocarbon contamination at the hand gun range. Preparation of a feasibility study was recommended to develop and evaluate munitions response alternatives for MEC/MD.

CLEANUP/EXIT STRATEGY

Additional investigation and/or removals may be required depending on the results of the RI and future land use by TEAD-S.

Site ID: DCD-002-R-01

Site Name: EASTERN DEMIL/DISPOSAL PITS SWMU-1

STATUS

Regulatory Driver: RCRA

MRSPP Score: 03

Contaminants of Concern: Chemical weapon munitions (CWM)/Chemical agent, Explosives, Metals, Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200209.....	200305
CS.....	200407.....	200510
RFI/CMS.....	201410.....	201812
IRA.....	201109.....	201506

RIP Date: N/A

RC Date: 201812

SITE DESCRIPTION

This site is located in the southeastern portion of the installation, along the fence. Approximately 373 acres of the eastern demil/disposal pits are located in the nonoperational portion of the installation. The US Army Toxic and Hazardous Materials Agency (USATHAMA) reported that approximately 59,000 empty 4.2-inch mortar projectiles were identified in a disposal pit on-site. According to a 1993 report by the US Army Chemical Materiel Destruction Agency, this site contains two sites identified as non-stockpile chemical agent sites. They are listed as the "disposal" and "mortar pit" sites. The US Army program manager for chemical demilitarization has included this SWMU in their non-stockpile survey and analysis report.

The eastern demil/disposal pits site was used as a detonation site for conventional munitions (i.e. mortars and bombs) and a burial site for explosive and chemical munitions. Mortars and bursters were transported in egg crates. Energetics were removed from the munitions, and the rounds were then thrown into pits and burned. Afterwards, the scrap was removed and buried elsewhere within the boundary of the site. Ordnance scrap and the potential for surface MEC remain. The site was also used as a disposal area for incendiary and chemical (chiefly mustard-filled) munitions and explosives, as evidenced by the 130 remaining disposal pits. In addition, bombs were demilitarized at the site. They were shot with armor piercing rounds, which allowed the chemical agent to drain. German sarin bombs were also demilitarized on-site.

Mustard agent-burning operations reportedly occurred in the northeastern portion of this site. Although most of the munitions buried in the pits were reportedly burned prior to burial, it is suspected that mustard munitions were disposed of without prior burning. Although the majority of the activity took place during the 1950s, the site was operational between 1945 and 1978. According to an October 1995 draft groundwater monitoring report, a hard, green residue resembling soapstone was observed, which suggested that napalm may have been used to facilitate crate burning on the site.

As part of the IRP, an IAP dated November 2001 was prepared noting the potential for "agent" contaminated materials and UXO below the surface of the burial pits. In addition, an interim RFI report was prepared that included some minimal sampling, but no UXO responses were conducted and no additional work has been conducted due to the potential for extreme hazards at the site. The area is fenced and the site is currently undeveloped.

The Army performed an ordnance sweep and removal of SWMU 1 and adjacent off-post properties. Surface clearance of roadways, conducted in 2003-2005, discovered chemical agent identification sets in addition to conventional munitions and MEC scrap.

This site TEAD(S)-01 was moved to Munitions Response (MR) as of Jan. 18, 2007 because the installation was included in Base Realignment and Closure (BRAC) 2005 making Environmental Restoration, Army (ER,A) and BRAC funding the same.

Non-intrusive soil gas investigation to assess potential contaminant source areas was completed in 2009. It confirmed the presence and identified the locations of chemical warfare agent (CWA), ABP, and related compounds at several locations within this site.

An IRA (surface clearance) was completed during 2011 - 2015 for SWMUs 1 and 25. Thousands of MEC items and 10 million pounds of metal (material documented as safe (MDAS) and other metal) have been removed from the sites. Ash piles were

Site ID: DCD-002-R-01

Site Name: EASTERN DEMIL/DISPOSAL PITS SWMU-1

removed. Soil sampling and a geophysical survey were completed. During surface clearance operations 235 recovered chemical warfare materiel items were recovered from SWMU-1 only, assessed and determined to contain mustard agent. An RFI is being conducted beginning in 2015.

CLEANUP/EXIT STRATEGY

A phased RFI is planned for this site. The initial phase will focus on defining nature and extent of groundwater contamination and known burials. A CMS/corrective measures implementation (CMI) may be required based on results. Future efforts will include institutional controls for buried CWM.

Site ID: DCD-004-R-01
Site Name: OLD DEMOLITION PIT (SWMU 15)

STATUS

Regulatory Driver: RCRA
MRSPP Score: 04
Contaminants of Concern: Munitions and explosives of concern (MEC)
Media of Concern: Soil

Phases	Start	End
RFA.....	200209.....	200305
CS.....	200407.....	200512
RFI/CMS.....	201003.....	201610
RIP Date:	N/A	
RC Date:	201610	

SITE DESCRIPTION

This site is referred to as a demolition site. It was actually a munitions storage area. The site is located south of the installation sewage lagoons, in the central portion of the installation. The estimated size of this site is 712 acres. According to a July 1993 report and a November 2001 IAP, a large, accidental explosion of 4.2-inch high-explosive shells occurred at this site in the late-1940s. A former employee recalled this explosion, and it was assumed the explosion was to have demilitarized the shells, but this has not been confirmed. The crater resulting from the explosion has been filled.

The actual pit is 0.44 acres. Confirmation that this was an accidental explosion has not been obtained. The kick-out from the explosion was estimated to have extended as far as 3,150 feet, based on information provided in the DoD ammunition and explosives safety standards, dated July 1999. Consequently, this area was included within the boundaries for this site. According to the IAP, the only contaminant of concern was MEC. No contamination was detected during the Phase I RFI. There have been no known MEC/UXO responses at this site. Warehouse C4002 was built over the detonation pit. The construction date is unknown. The warehouse was demolished in 1996, leaving only the concrete slab foundation. The site is undeveloped.

An RFI addendum was conducted in 2013 which included surface sweeps, geophysical physical surveys, intrusive anomaly investigations and soil sampling. Results of sampling were a project decision limits exceedance for chromium. Extensive UXO/MEC was encountered on the surface and the subsurface. It was recommended that a feasibility study be developed to evaluate MR alternatives.

CLEANUP/EXIT STRATEGY

An additional investigation is planned for this site. Based on the recommendation of the investigation report, a plan of action will be developed for this site.

Site ID: DCD-006-R-01

Site Name: WESTERN DEMIL/DISP PITS (SWMU 25)

STATUS

Regulatory Driver: RCRA
MRSPP Score: 03

Phases	Start	End
RFA.....	200209.....	200305
CS.....	200407.....	200510
RFI/CMS.....	201410.....	201810
IRA.....	201109.....	201506
RIP Date: N/A		
RC Date: 201810		

SITE DESCRIPTION

From 1945 to 1978 a variety of demilitarization and disposal activities were conducted at this 1,105-acre, fenced SWMU located along the southern fence line of the installation. The western part of the SWMU is occupied by about 50 burial pits, each about 3.5 acres. The pits were created by numerous superimposed explosion craters (from former OB/OD activity). The eastern part of the SWMU contains numerous covered munitions, burn smudges, and disposal trenches.

This site contained ash mounds, high-explosive detonation craters, and windrows. The ash mounds are located on the northeastern portion of the site. They contain shrapnel and scrap metal. According to the IAP, the mounds may be the result of burning incendiary components of cluster bombs, burning incendiary munitions washout from the incendiary washout operation in Building 554 and incendiary washout ponds, or burning chemical agents such as riot control agents. Former employees stated that the mounds were probably the result of the burning and burial of riot control agents.

The pits were comprised of approximately 50 clusters of high-explosive detonation craters that were formed by the superimposed OD of high-explosive conventional munitions. Approximately 10,000 to 15,000 pounds of munitions were detonated at one time. The craters were closed by backfilling between 1987 and 1990.

The windrows are located in the north-central portion of the site and are composed of two long piles of scrap metal. They contain cluster bomb tail sections, cluster bars, nose plates, hangers, fire bomb casings, and M-50 type thermate bombs, some of which reportedly still contain live explosive charges. Residual bomb and cluster parts from demilitarization activities in Building S-554 were reportedly buried here. Operational procedures at the windrows involved placing scrap metal from the incendiary cluster bombs in trenches, dousing them with fuel, and burning them. According to the USATHAMA, some of the M-50 bombs found in the windrows still have live explosive S-charges. A 1990 site visit reportedly uncovered small amounts of bulk trinitol (a secondary explosive) on the ground. The trinitol located at the site would be considered an MC.

At one time there was an attempt to clear this area. Piles of dirt and scrap were dumped on tables. A magnet was then drawn over the scrap and the metal was removed. The explosive and ordnance disposal team was called to remove any UXO. This plan was abandoned due to the concentration of UXO. The site is presently fenced. There have been no other known UXO responses at this site. The ash mounds and windrows are still evident and the site is currently undeveloped.

Limited sampling identified metals and VOCs in the soil. Carbon tetrachloride has been detected in the groundwater. A site survey within the SWMU boundaries was completed in FY03.

An off-post survey for UXO and debris (covering about 35 acres) was conducted in FY05.

This site (TEAD(S)-22) was moved to MMRP as of Jan. 18, 2007 because DCD was included in BRAC 2005 making ER,A and BRAC funding the same.

An IRA (surface clearance) was completed during 2011 - 2015 for SWMUs 1 and 25. Thousands of MEC items and 10 million pounds of metal (MDAS and other metal) have been removed from the sites. Ash piles were removed. Soil sampling and a geophysical survey were completed. During surface clearance operations 235 recovered chemical warfare materiel items were

Site ID: DCD-006-R-01
Site Name: WESTERN DEMIL/DISP PITS (SWMU 25)

recovered from SWMU-1 only, assessed and determined to contain mustard agent. An RFI is being conducted beginning in 2015.

CLEANUP/EXIT STRATEGY

An RFI/CMS are planned for this site. The focus of RFI will be nature and extent of groundwater contamination with an emphasis on determining the extent of the carbon tetrachloride plume and the burial sites. Institutional controls are recommended.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
DCD-003-R-01	GRAVEL PIT AREA (SWMU-02)	201602	
DCD-007-R-01	Southern Boundary Area	200512	After Action Report Anomaly Avoidance Surveys Of UXO/OE on the Unpaved Roadway at Solid Waste Management Units 1 and 25. Parsons. August 2008.

MMRP Schedule

Date of MMRP Inception 200209

Past Phase Completion Milestones

2003

RFA (DCD-001-R-01 - COMBAT TRAINING AREA, DCD-002-R-01 - EASTERN DEMIL/DISPOSAL PITS SWMU-1, DCD-003-R-01 - GRAVEL PIT AREA (SWMU-02), DCD-004-R-01 - OLD DEMOLITION PIT (SWMU 15), DCD-006-R-01 - WESTERN DEMIL/DISP PITS (SWMU 25), DCD-007-R-01 - Southern Boundary Area)

2006

CS (DCD-001-R-01 - COMBAT TRAINING AREA, DCD-002-R-01 - EASTERN DEMIL/DISPOSAL PITS SWMU-1, DCD-004-R-01 - OLD DEMOLITION PIT (SWMU 15), DCD-006-R-01 - WESTERN DEMIL/DISP PITS (SWMU 25), DCD-007-R-01 - Southern Boundary Area)

2013

CS (DCD-003-R-01 - GRAVEL PIT AREA (SWMU-02))

2015

IRA (DCD-002-R-01 - EASTERN DEMIL/DISPOSAL PITS SWMU-1, DCD-006-R-01 - WESTERN DEMIL/DISP PITS (SWMU 25))

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: 2019

Estimated Completion Date of MMRP at Installation (including LTM phase): 201812

TOOELE ARMY DEPOT SOUTH MMRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
DCD-001-R-01	COMBAT TRAINING AREA	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
DCD-002-R-01	EASTERN DEMIL/DISPOSAL PITS SWMU-1	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
DCD-004-R-01	OLD DEMOLITION PIT (SWMU 15)	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
DCD-006-R-01	WESTERN DEMIL/DISP PITS (SWMU 25)	RFI/CMS						

TOOELE ARMY DEPOT SOUTH
Army Defense Environmental Restoration Program
Compliance Restoration

CR Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 7/3

Installation Site Types with Future and/or Underway Phases

- 1 Burn Area
(CC-004)
- 1 Contaminated Ground Water
(CC-001)
- 1 Landfill
(CC-003)
- 1 Sewage Treatment Plant
(CC-002)

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
CC-006	Solid Waste Management Units (SWMUs)	FRA	FENCE OR OTHER SITE ACCESS CONTROL MEASURES	2011

Duration of CR

Date of CR Inception: 197912

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201910/202303

Date of CR completion including Long Term Management (LTM): 202303

CR Contamination Assessment

Contamination Assessment Overview

Environmental restoration activities include the IRP and MMRP. On Dec. 29, 2008, the Office of the Deputy Under Secretary of Defense for Installations and Environment, [ODUSD(I&E)], issued an interim policy for 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 CC program eligible for the DERP. Sites which are now eligible for the MMRP have been migrated from the Army Environmental Database - Compliance-related Cleanup (AEDB-CC) and given the naming convention of other MR sites. The newly eligible non-MR type sites are considered to be Installation Restoration (IR) sites; however, the newly eligible sites are being coded as Compliance Restoration (CR) in the Army Environmental Database - Restoration (AEDB-R) to distinguish them from the original IR sites and IR metrics.

Site CC-001, CAMDS, was a prototype research and development facility designed and constructed to demilitarize a wide variety of chemical munitions and containers, and to detoxify chemical agents such as nerve (sarin and methyl phosphonothiolate) and blister agents. Contamination in the CAMDS facility primarily resulted from three sources: a diesel fuel spill in 1983, which released petroleum hydrocarbons to surface and subsurface media; miscellaneous reported spills, primarily fuels, which have occurred over the life of the facility, and constituents apparently contained within the boiler discharge effluent from the facility. Contamination by petroleum hydrocarbons was detected in groundwater, subsurface soil, surface water, and sediments in the CAMDS facility, providing evidence of documented past fuel spills, leaks, and discharges both within the CAMDS facility and at the boiler blowdown discharge area.

Cleanup Exit Strategy

Excavation and removal of soil contamination at CAMDS through the following activities:

- Backfill the sewage treatment plant and northern lagoon and re-grade the surrounding area.
- Remove construction debris and collect soil samples to determine if it needs to be treated as a hazardous waste.
- Remove all munitions debris at SWMU 37 to meet a residential standard.

CR Previous Studies

	Title	Author	Date
1990	Phase I RFI for Known Release	Donohue	MAR-1990
1993	Phase I RFI	Ebasco	JUL-1993
1994	Phase II RFI for Known Release	Rust Environment and Infrastructure	JUN-1994
1999	Phase II RFI for Group 2 SWMUs	Foster Wheeler	FEB-1999
	Corrective Measures Study Report for Group 2 SWMUs	Foster Wheeler	OCT-1999
	Decision Document for Group 2 SWMUs	Foster Wheeler	DEC-1999
2001	Decision Document for Known Release	URS	APR-2001
	Phase II RFI for Group 3 SWMUs	SAIC	AUG-2001
2002	CMS Study for Known Release	URS	JUL-2002
	Corrective Measures Study for SWMU 37	URS	JUL-2002
	Decision Document for SWMU 37	URS	JUL-2002
2003	Corrective Measures Design Work Plan for SWMU 37	Kleinfelder	JAN-2003
	Corrective Measures Completion Report	Kleinfelder	JUL-2003
2012	Final Work Plan for the Corrective Action for Contaminated Soil Excavation and Soil Testing at SWMU 37	North Wind	DEC-2012
2014	Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Addendum Report for Solid Waste Management Unit (SWMU) 27	Parsons	AUG-2014

TOOELE ARMY DEPOT SOUTH

Compliance Restoration

Site Descriptions

Site ID: CC-001

Site Name: CAMDS Facility (SWMU 13)

STATUS

Regulatory Driver: RCRA

Contaminants of Concern: Metals, Petroleum, Oil and Lubricants (POL), Semi-volatiles (SVOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	197912.....	198812
CS.....	197912.....	198812
RFI/CMS.....	198708.....	201612
CMI(C).....	201612.....	201910
CMI(O).....	201910.....	202303

RIP Date: 201910

RC Date: 202303

SITE DESCRIPTION

The CAMDS facility is located in the southwestern portion of the TEAD-S. Construction of the facility contained within a 10-acre fence was completed in 1979, CAMDS was built as a prototype research and development facility designed and constructed to demilitarize a wide variety of chemical munitions and containers, and to detoxify CWAs such as nerve (sarin and methyl phosphonothiolate) and blister agents.

Closure activities for CAMDS began in August 2006. The CAMDS facility has been demolished and the RCRA permit has been closed. Past operations resulted in contamination of the groundwater beneath the facility. Spills of diesel fuel oil in the area of the aboveground storage tanks were reported in 1978 and 1983, an underground line leak of diesel fuel went undetected between 1980 and 1985. The fuel lost via the undetected leak was estimated to be as much as 38,000 gallons. The Phase II RFI and CMS were completed in 1997 and 2000, respectively. Based on the CMS, the corrective measures alternatives recommended for this site were free-product removal and monitoring with institutional controls; however, soil removal is a preferred technology. Additional information is required and an addendum to the RFI and CMS will be completed due to the time lapsed since the last investigation which occurred while CAMDS was operational. RFI addendum to determine the extent of groundwater contamination will be completed in calendar year (CY)15. Natural attenuation is now the presumptive remedy and will be considered under the new investigative work.

CLEANUP/EXIT STRATEGY

An RFI addendum to determine the extent of groundwater contamination will be completed in CY15. A CMS will be developed to consider natural attenuation, removal and or on-site treatment options.

Site Name: Sewage Treatment Plan (SWMU 27)

STATUS

Regulatory Driver: RCRA
Contaminants of Concern: Metals
Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	197912.....	198812
CS.....	197912.....	198812
RFI/CMS.....	198812.....	201412
DES.....	201503.....	201506
CMI(C).....	201503.....	201612

RIP Date: N/A
RC Date: 201706

SITE DESCRIPTION

The sewage treatment plant consists of an Imhoff tank and two unlined sewage lagoons. This plant is located in the northeastern portion of the installation, approximately 2,000 feet south of the administration area. The tank and sewer lines were probably installed in 1942, during the original installation construction. The tank and lines served the barracks, commissary, and support facilities located in the northeastern part of the installation. The lagoons were built in 1980. The northern lagoon was to receive Imhoff tank effluent and then overflow into the southern lagoon, which is open at its southwest corner. Before the construction of the sewage lagoons, discharge from the Imhoff tank flowed into ditches adjacent to the lagoon on the east.

During the RFI Phase I, a soil gas survey was conducted and a sediment sample was collected from the northern lagoon. The soil gas survey consisted of sampling at 12 locations across the area where discharge from the Imhoff tank is documented. Analyses of soil gas samples included dichloroethylene, benzene, trichloroethene (TCE), toluene, tetrachloroethylene, and xylene. The sediment sample was analyzed for VOCs, SVOCs, ABPs, explosives, and metals. No significant contaminant release was indicated by the RFI Phase I. The southern lagoon was backfilled in CY11. The Imhoff tank was removed in CY12. Additional investigation occurred in CY13 of the northern lagoon, wooden septic tanks, oil water separators and the sewer line leading from the former maintenance area to the Imhoff area. It was determine that the oil water separators and wooden septic tanks would be removed due to contamination found in the samples.

CLEANUP/EXIT STRATEGY

Removal of the oil water separators and wooden septic tanks will be accomplished in FY15 and it is anticipated that NFA will be attained.

Site ID: CC-003
Site Name: CAMDS Landfill (SWMU 30)

STATUS

Regulatory Driver: RCRA
Contaminants of Concern: Metals
Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	197912.....	198812
CS.....	197912.....	198812
RFI/CMS.....	198708.....	201812
RIP Date:	N/A	
RC Date:	201812	

SITE DESCRIPTION

SWMU 30 is located in the southwestern portion of the installation, south of SWMU 13 (CAMDS). The unit includes covered burn trenches and a sewer lagoon and soil/debris piles. The burn trenches were cleaned-up and covered with native soil. The soil/debris piles east of the former trenches received road-renovation waste such as soil, asphalt, and PVC pipe. The waste is placed in discrete, east-west trending piles. The piles are 4 to 5 feet high and cover an area measuring approximately 500 feet by 500 feet (RFI Phase II Group 2 SWMUs). An RFI which includes classification and sampling of the soil/debris piles was conducted in 2015 and determined to be nonhazardous. Investigation of three buried burn trenches included soil gas, surface soil samples, subsurface soil sampling and trenching. The investigation determined the buried material is present and poses a hazard. This material was removed and the trenches backfilled using clean soil.

CLEANUP/EXIT STRATEGY

Investigation of the soil/debris piles, old burn trenches and the old lagoon will be conducted. Contaminated media will be removed and the site will be closed meeting an industrial closure with post-closure institutional controls.

Site ID: CC-004

Site Name: Slag Pile (SWMU 37)

STATUS

Regulatory Driver: RCRA

Contaminants of Concern: Metals, Semi-volatiles (SVOC)

Media of Concern: Soil

Phases	Start	End
RFA.....	197912.....	198812
CS.....	197912.....	198812
RFI/CMS.....	198708.....	200209
DES.....	200206.....	200211
CMI(C).....	201009.....	201610

RIP Date: N/A

RC Date: 201610

SITE DESCRIPTION

The bomb fragment area covers a subsurface volume of metal debris of approximately 8,000 cubic yards. Phase II RFI investigation activities revealed a disposal trench of incendiary bombs that had been burned in place. The origin and history of these bombs is unknown. According to the Army report, bomblets contain magnesium or napalm and may contain explosives depending on model. Metal debris was encountered in most of the Phase II test pit excavations on the northwestern slope of the pit at depths ranging from the surface to 9 feet below ground surface. In addition, a white ash layer ranging from 1 to 5 feet thick was identified in the pits, indicating that the bombs had been burned in place. In 2003 this site was capped with a 1 foot thick cobble over the affected area.

Due to the potential of lead and other metals that may affect human health during windy season, as well as the potential presence of explosives, the site was excavated to remove and dispose of contaminated soil and debris at this site. Fieldwork is estimated to be completed in 2015.

CLEANUP/EXIT STRATEGY

Wastes buried in this area will be removed and disposed of off-site. This site will be closed as NFA.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
CC-005	Mustard Classification Yard	201103	TEAD-S Corrective Action Module V, RCRA Permit
CC-006	Solid Waste Management Units (SWMUs)	201103	TEAD-S Corrective Action Module V, RCRA Permit
CC-007	Old CAMDS laboratory - Building 454	201103	Final Closure Verification Sampling Report for Buildings 4541 and 4539, Deseret Chemical Depot

CR Schedule

Date of CR Inception: 197912

Past Phase Completion Milestones

1989

CS (CC-001 - CAMDS Facility (SWMU 13), CC-002 - Sewage Treatment Plan (SWMU 27), CC-003 - CAMDS Landfill (SWMU 30), CC-004 - Slag Pile (SWMU 37))
 RFA (CC-001 - CAMDS Facility (SWMU 13), CC-002 - Sewage Treatment Plan (SWMU 27), CC-003 - CAMDS Landfill (SWMU 30), CC-004 - Slag Pile (SWMU 37))

1998

PA (CC-005 - Mustard Classification Yard)

1999

PA (CC-006 - Solid Waste Management Units (SWMUs))

2000

PA (CC-007 - Old CAMDS laboratory - Building 454)

2002

RFI/CMS (CC-004 - Slag Pile (SWMU 37))

2003

DES (CC-004 - Slag Pile (SWMU 37))

2011

SI (CC-005 - Mustard Classification Yard, CC-007 - Old CAMDS laboratory - Building 454)
 RA(C) (CC-006 - Solid Waste Management Units (SWMUs))

2015

RFI/CMS (CC-002 - Sewage Treatment Plan (SWMU 27))
 DES (CC-002 - Sewage Treatment Plan (SWMU 27))

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: 201910

Schedule for Next Five-Year Review: 2019

Estimated Completion Date of CR at Installation (including LTM phase): 202303

TOOELE ARMY DEPOT SOUTH CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CC-001	CAMDS Facility (SWMU 13)	RFI/CMS						
		CMI(C)						
		CMI(O)						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CC-002	Sewage Treatment Plan (SWMU 27)	CMI(C)						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CC-003	CAMDS Landfill (SWMU 30)	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CC-004	Slag Pile (SWMU 37)	CMI(C)						

Community Involvement

Technical Review Committee (TRC): 199610

Community Involvement Plan (Date Published): 201403

Restoration Advisory Board (RAB): RAB established 199901

RAB Adjournment Date: N/A

RAB Adjournment Reason: None

Additional Community Involvement Information

The small towns in the vicinity of the DCD, including Rush Valley, Clover, St. John, Big Hollow, Vernon, Hogan's Ranch, and Stockton, have a combined population of approximately 1,200. The town of Ophir is set in a narrow mountain canyon, east of the depot, with a year-round population of approximately 30 residents. The main community, Tooele, located about 20 miles north of the depot, has a population of more than 28,000 residents.

A TRC was originally formed in February 1988 when the depot, then named TEAD south area, was part of TEAD. In FY96, the depot became a separate installation and established its own TRC to continually address the depot restoration concerns. The committee includes representatives of the Army, the USEPA Region 8, the UDEQ, Utah State University, and Tooele county residents. With the determination of the installation commander, the TRC was converted to a RAB. The first public meeting was conducted in September 1998 to solicit potential interest for the RAB formation.

The first RAB meeting was held in January 1999. The DCD community relations plan was updated in 2008. This plan was originally prepared in 1994 combining both the TEAD north and south areas. This plan includes sections on previous site information, site history, current missions, proposed projects, past community communications, key community concerns, public participation activities and implementation, environmental concerns, etc.

Administrative Record is located at

Deseret Chemical Depot
CMDC-MS, Building 5120
Stockton, UT 84071
435-833-4178

Information Repository is located at

Tooele City Public Library
128 West Vine
Tooele, UT 84074
435-843-2137

University of Utah - Marriot Library
395 S 1500 E, Floor 5
Salt Lake City, UT 84112
801-581-8558

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

TAPP Title: N/A

Potential TAPP: N/A

