

FORT SILL

Army Cleanup Program

Installation Action Plan Final
June 2024

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STATEMENT OF PURPOSE

The Installation Action Plan (IAP) provides evidence that the Army is firmly committed to expeditious identification and cleanup of environmental contamination, and that the installation has a credible, organized program to carry out that commitment. The IAP provides an outline of the total multi-year environmental cleanup program for each site with ongoing or future planned restoration activity and includes the (1) environmental restoration requirements, (2) the rationale for the selected technical approach, and (3) foundation to develop corresponding financial needs for each cleanup site.

INSTALLATION OVERVIEW

Installation Name: FORT SILL

Installation City: FORT SILL

Installation County: COMANCHE

Installation State: OKLAHOMA

Regulatory Participation - Federal: US ENVIRONMENTAL PROTECTION AGENCY (USEPA), REGION VI

Regulatory Participation - State: OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ)

ACRONYMS

Acronym	Definition
AFFF	Aqueous Film Forming Foam
AOPI	Areas of Potential Interest
BRAC	Base Realignment and Closure
CAP	Corrective Action Plan
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CIP	Community Involvement Plan
CRL	Cleanup Restoration & Liabilities
DD	Decision Document
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethylene
DMM	Discarded Military Munitions
EE/CA	Engineering Evaluation/Cost Analysis
ENV	Environmental
EOD	Explosive Ordnance Disposal
FARTC	Field Artillery Replacement Training Center
FS	Feasibility Study
FY	Fiscal Year
FYR	Five-Year Review
HRS	Hazardous Ranking System
IAP	Installation Action Plan
ID	Identification
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MC	Munition Constituents
MEC	Munitions and Explosives of Concern
MMRP	Munitions Response Program
MR	Munitions Response
MRA	Munitions Response Area
MRSPP	Munitions Response Site Prioritization Protocol
MSSL	Medium-Specific Screening Program Level
NFA	No Further Action
NPL	National Priorities List
ODEQ	Oklahoma Department of Environmental Quality
PA	Preliminary Assessment
PAH	Polynuclear Aromatic Hydrocarbons
PFAS	Per- and Polyfluoroalkyl Substances

Acronym	Definition
PP	Proposed Plan
PR	Periodic Review
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RIP	Remedy-In-Place
RRSE	Relative Risk Site Evaluation
SC	Site Closeout
SI	Site Inspection
TAPP	Technical Assistance for Public Participation
USACE	US Army Corps of Engineers
USEPA	US Environmental Protection Agency
UXO	Unexpended Ordnance

PHASE TRANSLATION TABLE

CERCLA Phase	RCRA Phase	RCRA UST Phase
Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
Remedial Design (RD)	Design (DES)	Design (DES)
Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
Remedial Action (Operations) (RA(O))	Corrective Measures Implementation (Operations) (CMI(O))	Implementation (Operations) (IMP(O))
Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

PROGRAM SUMMARY

Number of Open Sites with Response Complete/Total Open IR Sites: 7/9

Number of Open Sites with Response Complete/Total Open MR Sites: 1/1

Number of Open Sites with Response Complete/Total Open CC Sites: 0/0

SITE-LEVEL INFORMATION

40755.1008_FTSL-008_LANDFILL 4 (GUNNERY HILL)

Env Site ID: FTSL-008

Cleanup Site: LANDFILL 4 (GUNNERY HILL)

Alias: SWMU#004

Regulatory Driver: CERCLA

RIP Date: 6/6/2007

RC Date: 6/6/2007

RC Reason: Study Completed, No Cleanup Required

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	8/31/1987	4/30/1990
SI:	8/31/1987	4/30/1990
RI/FS:	4/30/1998	6/5/2007
RD:	--	--
IRA:	--	--
RA(C):	6/6/2007	6/6/2007
RA(O):	--	--
LTM:	6/7/2007	9/30/2054

Site Narrative: Landfill 4 is located in the Gunnery Hill area northwest of the intersection of Fort Sill Blvd. and Sheridan Road. It was a hillside disposal site where rubbish was open burned. The site is approximately 2.4 acres. Material was reportedly dumped and/or burned at this location during the World War II era. Operation ceased in the late-1940s. The exact composition of the wastes managed is unknown. The unit is well vegetated and shows no visible signs of leachate. In April 1990 a preliminary assessment (PA) / site inspection (SI) was conducted. In July 1998, a phase I remedial investigation (RI) began. The phase I report was completed in July 1999. The phase I investigation included an electromagnetic survey of the site revealing a total of six anomalous areas and sampling of the surface soil subsurface soil and sediment. Lead was detected in the soil at concentrations above the industrial medium-specific screening program level (MSSL). In March 2000, a phase II RI was conducted comprised of additional soil and groundwater sampling and the final closure report was prepared. This investigation showed arsenic barium chromium and lead as possible contaminants of concern. An additional investigation was conducted at the site and on April 9, 2002, the Final Site Investigation Former Gunnery Hill Landfill Report was submitted to Oklahoma Department of Environmental Quality (ODEQ). On Oct. 27, 2004, ODEQ issued a no further action (NFA) letter. On June 5, 2007, the decision document (DD) for the implementation of land use controls (LUC) was signed, requiring annual inspections. The first five-year review (FYR) was completed in 2009 with the last FYR completed in 2020. Cleanup/Exit Strategy - The former solid waste landfill conditions with contents remaining in place remains unchanged. LUCs will continue as long as contents remain or at such time the landfill is determined to have unrestricted land use by the Army.

40755.1010_FTSL-010_LANDF 6 (MISSION RIDGE/WHITE WO

Env Site ID: FTSL-010

Cleanup Site: LANDF 6 (MISSION RIDGE/WHITE WO

Alias: SWMU#006

Regulatory Driver: CERCLA

RIP Date: 6/6/2007

RC Date: 6/6/2007

RC Reason: Study Completed, No Cleanup Required

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	8/31/1987	4/30/1990
SI:	8/31/1987	4/30/1990
RI/FS:	5/15/1990	6/5/2007
RD:	--	--
IRA:	--	--
RA(C):	6/6/2007	6/6/2007
RA(O):	--	--
LTM:	6/7/2007	9/30/2054

Site Narrative: The Mission Ridge/White Wolf Bridge landfill incorporates approximately 111 acres and is located between Hummel Knoll and the Medicine Bluff Recreational Area between Apache Gate Road and Punch Bowl Road. Chatto Road subdivides the area with Mission Ridge on the northern end of the site and White Wolf Bridge on the southern end. It is the earliest documented sanitary landfill used at Fort Sill. During the 1940s and 1950s it was a trench-and-fill disposal site for sanitary wastes and rubbish. Disposal apparently took place at five separate trench-and-fill areas that range from one to six acres. The landfill areas are well vegetated with minimal surface erosion and no visible signs of environmental impact. In March and April 1986, a geohydrologic study was conducted. Four groundwater monitoring wells were installed at that time. In April 1990, a PA was completed recommending the collection of additional soil and groundwater samples. In April 1991, a separate RI was conducted which included soil and groundwater sampling. An additional three wells were installed, and groundwater was monitored for five years to determine the possible impact on the groundwater quality. The five-year groundwater monitoring program was completed in fiscal year (FY) 2000. On Feb. 22, 2001, the site groundwater monitoring program report was submitted to ODEQ. To support the findings of the groundwater monitoring report the US Army Corps of Engineers (USACE) prepared a separate groundwater analyses statistical summary report. In August 2001, the USACE Mobile District completed the report and in September 2001 it was submitted to ODEQ. On Aug. 20, 2002, ODEQ issued an NFA letter. In December 2002, the seven groundwater monitoring wells were removed. The DD for the implementation of LUCs was signed on June 5, 2007, requiring annual inspections and maintenance. LUCs and FYRs continue to be conducted under the long-term management (LTM) phase. The last FYR was completed in 2020. Cleanup/Exit Strategy - The former solid waste landfill conditions with contents remaining in place remains unchanged. LUCs will continue as long as contents remain or at such time the landfill is determined to have unrestricted land use by the US Army.

40755.1011_FTSL-011_LANDFILL 7 (HUMMEL KNOLL)

Env Site ID: FTSL-011

Cleanup Site: LANDFILL 7 (HUMMEL KNOLL)

Alias: SWMU#007

Regulatory Driver: CERCLA

RIP Date: 6/6/2007

RC Date: 6/6/2007

RC Reason: Study Completed, No Cleanup Required

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	8/31/1987	4/30/1990
SI:	8/31/1987	4/30/1990
RI/FS:	6/15/1995	6/5/2007
RD:	--	--
IRA:	--	--
RA(C):	6/6/2007	6/6/2007
RA(O):	--	--
LTM:	6/7/2007	9/30/2054

Site Narrative: The Hummel Knoll Landfill consists of approximately 50 acres and is located between Hummel Knoll and the Medicine Bluff Recreational Area northeast of the intersection of Apache Gate Road and Knob Hill Road. The landfill operated as a trench-and-fill type from about 1950 to 1955. Fort Sill used this landfill primarily for the disposal of sanitary wastes and rubbish. In 1986 a geohydrologic study was conducted at which time five groundwater monitoring wells were installed. In April 1990 a PA/SI was completed recommending the collection of additional soil and groundwater samples. In April 1991 a separate PA was conducted. In early-1995 the groundwater monitoring system at this site was evaluated and upgraded to a total of seven monitoring wells at the site. In 1995 the RI/feasibility study (FS) began. Groundwater monitoring was initiated due to USEPA Region VI concerns regarding this site. Groundwater was monitored for five years to determine the impact of the landfill on the groundwater quality. In 2000 the five-year groundwater monitoring program was completed. The final report was submitted to ODEQ Feb. 22, 2001. To support the findings of the groundwater monitoring report USACE prepared a separate groundwater analyses statistical summary report which Mobile District completed in August 2001 and submitted to ODEQ in September 2001. On Aug. 20, 2002, ODEQ issued an NFA letter. In December 2002 the seven groundwater monitoring wells were removed. The DD for the implementation of LUCs was signed on June 5, 2007, requiring annual inspections. LUCs and FYRs continue to be conducted under the LTM phase. The last five-year review was completed 2020. Cleanup/Exit Strategy - The former solid waste landfill conditions with contents remaining in place remains unchanged. LUCs will continue as long as contents remain or at such time the landfill is determined to have unrestricted land use by the US Army.

40755.1012_FTSL-012_LANDFILL 8 (NORTH FIELD)

Env Site ID: FTSL-012

Cleanup Site: LANDFILL 8 (NORTH FIELD)

Alias: SWMU#008

Regulatory Driver: CERCLA

RIP Date: 6/6/2007

RC Date: 6/6/2007

RC Reason: Study Completed, No Cleanup Required

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	8/31/1987	4/30/1990
SI:	8/31/1987	4/30/1990
RI/FS:	6/30/1995	6/5/2007
RD:	--	--
IRA:	--	--
RA(C):	6/6/2007	6/6/2007
RA(O):	--	--
LTM:	6/7/2007	9/30/2054

Site Narrative: The North Field Landfill is located west of North Field Road and north of Elgin Road south of the St. Louis-San Francisco Railroad and approximately 200 feet east of East Cache Creek. The landfill area is elongated along a north-south axis; it is approximately 4,000 feet long and 600 feet wide totaling 55 acres. From about 1965 to 1970, the site operated as a trench-and-fill type sanitary landfill and was primarily used for disposal of sanitary wastes and rubbish. In 1986, a geohydrologic study was conducted at which time five groundwater monitoring wells were installed. In April 1990, a PA was completed which recommended the collection of additional soil and groundwater samples. In April 1991, a separate investigation was conducted and in early-1995 the groundwater monitoring system at this site was evaluated and upgraded to a total of six monitoring wells at the site. In that year the RI/FS began. Due to the USEPA Region VI's concerns, groundwater monitoring was initiated at this site. Groundwater was monitored for five years to determine the impact of the landfill on the groundwater quality. In 2000, the five-year groundwater monitoring program was completed. The site groundwater monitoring program report was submitted to ODEQ on Feb. 22, 2001. To support the findings of the groundwater monitoring report USACE prepared a separate groundwater analyses statistical summary report which the Mobile District completed in August 2001 and submitted to ODEQ in September 2001. On Aug. 20, 2002, ODEQ issued an NFA letter and in December of that year the groundwater monitoring wells were removed. The DD for the implementation of LUCs was signed on June 5, 2007, requiring annual inspections. LUCs and FYRs continue to be conducted under the LTM phase. The last five-year review was completed 2020. Cleanup/Exit strategy - The former solid waste landfill conditions with contents remaining in place remains unchanged. LUCs will continue as long as contents remain or at such time the landfill is determined to have unrestricted land use by the US Army.

40755.1013_FTSL-013_LANDFILL 9 (PEACH TREE CROSSING)

Env Site ID: FTSL-013

Cleanup Site: LANDFILL 9 (PEACH TREE CROSSING)

Alias: SWMU#009

Regulatory Driver: CERCLA

RIP Date: 6/6/2007

RC Date: 6/6/2007

RC Reason: Study Completed, No Cleanup Required

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	8/31/1987	4/30/1990
SI:	8/31/1987	4/30/1990
RI/FS:	6/15/1995	6/5/2007
RD:	--	--
IRA:	--	--
RA(C):	6/6/2007	6/6/2007
RA(O):	--	--
LTM:	6/7/2007	9/30/2054

Site Narrative: The Peach Tree Crossing site is an approximately 12-acre trench-type sanitary landfill located immediately west of North Field Road about 600 feet south of Elgin Road. The edge of the landfill is about 200 feet from the western edge of East Cache Creek. From 1970 to 1971, the site was used primarily for the disposal of sanitary wastes and rubbish. In 1986, a geohydrologic study was conducted. Four groundwater monitoring wells were installed at that time. Collection of soil and groundwater samples was recommended by the 1990 Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA). Soil and groundwater samples were collected in April 1991. No soil contamination was found in the soil borings collected during that investigation. Groundwater analysis of samples collected showed some potential contamination. Four compounds chlorobenzene arsenic 44-Dichlorodiphenyldichloroethane (DDD) and chlordane were detected in samples but all below screening levels. Groundwater monitoring was initiated at this site due to the USEPA Region VI's concerns regarding the proximity of the site to the shallow alluvial aquifers. The groundwater monitoring system at this site was evaluated and upgraded to ensure adequate monitoring. The upgraded monitoring well network consisted of seven wells. Groundwater was monitored for five years to determine the possible impact of the landfill on the groundwater quality. In 2000, the five-year groundwater monitoring program was completed. The groundwater monitoring program report was submitted to ODEQ for regulatory review on Feb. 22, 2001. To support the findings of the groundwater monitoring report USACE prepared a separate groundwater analyses statistical summary report which the Mobile District completed in August 2001 and submitted to ODEQ in September of that year. On Aug. 20, 2002, ODEQ issued an NFA letter and in December of that year the groundwater monitoring wells were removed. The DD for the implementation of LUCs was signed on June 5, 2007, requiring annual inspections. LUCs and FYR continue to be conducted under the LTM phase. The last FYR was completed 2020. Cleanup/Exit strategy - The former solid waste landfill conditions with contents remaining in place remains unchanged. LUCs will continue as long as contents remain or at such time the landfill is determined to have unrestricted land use by the US Army.

40755.1014_FTSL-014_LANDFILL 10

Env Site ID: FTSL-014

Cleanup Site: LANDFILL 10

Alias: SWMU#010

Regulatory Driver: CERCLA

RIP Date: 6/6/2007

RC Date: 6/6/2007

RC Reason: Study Completed, No Cleanup Required

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	8/31/1987	4/30/1990
SI:	8/31/1987	4/30/1990
RI/FS:	6/15/1995	6/5/2007
RD:	--	--
IRA:	--	--
RA(C):	6/6/2007	6/6/2007
RA(O):	--	--
LTM:	6/7/2007	9/30/2054

Site Narrative: Landfill 10 covers approximately 56 acres and is a trench type landfill located between Dodge Hill Road and Beef Creek Road north of Beef Creek. The site was in operation from 1971 to 1985 primarily for the disposal of sanitary wastes although paint sludge asbestos cyanide waste wash rack wastes spent lithium batteries and pesticides were reported being disposed of. Approximately three feet of compacted earth was applied to the cells as a final cover. The site is well vegetated and currently is used as a training area. In 1986, a geohydrologic study was conducted and two groundwater monitoring wells were installed. In April 1990, an RFA was completed which recommended the collection of additional soil and groundwater samples. In April 1991, a separate RFA was conducted which included surface and subsurface soil and groundwater sampling. In early 1995, the groundwater monitoring system at this site was evaluated and upgraded to seven groundwater monitoring wells. In 1995, the RI/FS began and due to the concerns of USEPA Region VI groundwater monitoring was initiated. Groundwater was monitored over a five-year period to determine the impact of the landfill on the groundwater quality. In FY2000, the five-year groundwater monitoring program was completed, and the groundwater monitoring program report was submitted to ODEQ on Feb. 22, 2001. To support the findings of the groundwater monitoring report USACE prepared a separate groundwater analyses statistical summary report which the Mobile District completed in August 2001 and submitted to ODEQ in September that year. On Aug. 20, 2002, ODEQ issued an NFA letter, and the groundwater monitoring wells were removed in December of that year. The DD for the implementation of LUCs was signed on June 5, 2007, requiring annual inspections. LUCs and FYRs continue to be conducted under the LTM phase. The last FYR was completed in 2020. Cleanup/Exit Strategy - The former solid waste landfill conditions with contents remaining in place remains unchanged. LUCs will continue as long as contents remain or at such time the landfill is determined to have unrestricted land use by the US Army.

40755.1044_FTSL-047_EOD LANDFILL (QUANAH RANGE)

Env Site ID: FTSL-047

Cleanup Site: EOD LANDFILL (QUANAH RANGE)

Alias: SWMU#018

Regulatory Driver: CERCLA

RIP Date: 6/6/2007

RC Date: 6/6/2007

RC Reason: Study Completed, No Cleanup Required

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	9/30/1989	2/28/1991
SI:	9/30/1989	9/30/2000
RI/FS:	9/30/2000	6/5/2007
RD:	--	--
IRA:	--	--
RA(C):	6/6/2007	6/6/2007
RA(O):	--	--
LTM:	6/7/2007	9/30/2054

Site Narrative: The Quanah Range explosive ordnance disposal (EOD) landfill is in the center part of Quanah Range Impact Area and Falcon Bombing Range. This site is an approximately eight- to ten-foot deep trench extending approximately 200 feet along an unnamed north/south road about half a mile north of Road 13. The trench landfill was used to bury exploded bombs and munitions until the 1970s. A site reconnaissance conducted in October 1989 verified the presence of unburied bomb units in and near a northeast-to-southwest trending trench. Contaminants from these units posed a potential pollution threat to the soil zone as well as to groundwater and nearby surface water. Collection of soil samples was recommended in the April 1990 RFA. Soil and groundwater samples were collected under the April 1991 RFA. Cyclotetramethylene tetranitramine was detected at elevated concentration in one surface soil sample collected from the trench containing old bombs and munitions. Lead and 44'-Dichlorodiphenyldichloroethylene (DDE) were detected at very low levels in borehole samples during the 1991 investigation. On Oct. 14, 2003, ODEQ issued an NFA letter, and the three groundwater monitoring wells were removed in September 2003. The DD for the implementation of LUCs was signed on June 5, 2007, requiring annual inspections. LUCs and FYRs continue to be conducted under the LTM phase. The last FYR review was completed in 2020. Cleanup/Exit strategy - The former solid waste landfill conditions with contents remaining in place remains unchanged. LUCs will continue as long as contents remain or at such time the landfill is determined to have unrestricted land use by the US Army.

40755.1076_FTSL-091_SW CANTONMENT AREA SKEET RANGE

Env Site ID: FTSL-091

Cleanup Site: SW CANTONMENT AREA SKEET RANGE

Alias: FTSL-091

Regulatory Driver: CERCLA

RIP Date: 9/30/2025

RC Date: 9/30/2025

RC Reason: Not assigned

SC Date: 9/30/2025

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	2/29/2016	10/11/2016
SI:	2/29/2016	10/11/2016
RI/FS:	10/11/2016	9/28/2023
RD:	10/1/2023	12/31/2023
IRA:	--	--
RA(C):	1/1/2024	9/30/2025
RA(O):	--	--
LTM:	--	--

Site Narrative: The Southwest Cantonment Area Skeet Range is located along South Boundary Road just west of Sheridan Road. It was established in 1966 and operated until Feb. 29, 2016. After closure a contract was executed to excavate and capture lead shot for recycling. Recycling contractors removed approximately 22 tons of lead shot in 2016. Lead shot remains in the soil at the site as depicted by photos taken after the recovery effort. The contaminants of concern are lead potentially leaching from the remaining lead shot and polynuclear aromatic hydrocarbons (PAH) from the clay targets used at the site. An RI was conducted to determine the nature and extent of potential contamination and evaluated risk using the engineering evaluation/cost analysis (EE/CA) process as an alternative to the RI/FS/DD proposed plan (PP) process. The preliminary conclusions of the investigation indicate that lead shot and clay target fragments require removal from nearly the entire 32-acre site to a depth of at least six inches throughout and a little deeper in some areas. The DD was signed Sep. 28, 2023 implementing the removal action. Cleanup/Exit Strategy - Complete the remedial action (construction) (RA(C)) phase and close the site.

40755.1077_FTSL-PFAS_PFAS

Env Site ID: FTSL-PFAS

Cleanup Site: PFAS

Alias: #

Regulatory Driver: CERCLA

RIP Date: 9/30/2027

RC Date: 9/30/2027

RC Reason: Not assigned

SC Date: 9/30/2027

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	5/21/2018	9/29/2018
SI:	9/30/2018	9/30/2022
RI/FS:	10/1/2022	9/30/2027
RD:	--	--
IRA:	--	--
RA(C):	--	--
RA(O):	--	--
LTM:	--	--

Site Narrative: Per direction from Deputy Chief of Staff G-9 site created to account for all per- and polyfluoroalkyl substances (PFAS) costs at the installation. The PA/SI is complete and initially identified eight areas of potential interest (AOPI) - 1) Former Firefighter Training Area; 2) Fire Station 2 (B4914); 3) Hangar (B4915); 4) Fire Station 1 (B6041); 5) Fire Station Storage (B5020); 6) Fire Station 4 (B1617); 7) Old Fire Station (B5031); and 8) Dodge Hill Landfill. After the updated screening levels came out from Office of the Secretary of Defense, one AOPI was added back in, Fire Station 3 (B3500), making the total number of AOPIs being investigated equal to nine. These areas were all identified because they either historically used aqueous film-forming foam (AFFF) or stored it. The landfill was chosen due to the fact that soil from the Former Firefighter Training Area was disposed at the landfill. Soil surface water and groundwater are all being evaluated for potential PFAS contamination. A contract has been awarded for the RI/FS phase and is underway. Cleanup/Exit Strategy - Complete the RI/FS and move toward the PP and DD.

40755.1071_FSILL-001-R-02_SOUTHWEST CANTONMENT AREA

Env Site ID: FSILL-001-R-02

Cleanup Site: SOUTHWEST CANTONMENT AREA

Alias: #

Regulatory Driver: CERCLA

RIP Date: 3/16/2014

RC Date: 3/16/2014

RC Reason: All Required Cleanup(s) Completed

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: MR

NPL Status: No

Hazardous Ranking Score: 0

RRSE: N/A

MRSPP: 10

Phase	Start	End
PA:	10/31/2002	5/31/2003
SI:	9/30/2003	8/31/2005
RI/FS:	6/15/2010	3/15/2014
RD:	--	--
IRA:	--	--
RA(C):	3/16/2014	3/16/2014
RA(O):	--	--
LTM:	3/17/2014	9/30/2054

Site Narrative: FSILL-001-R-02 is located on the southern boundary of the installation between the west and east range areas. The site is part of the cantonment area and only contains a few facilities/structures [constructed around 2009 during Base Realignment and Closure (BRAC)] on its northern edge and overlaps sub-sites 001 (Field Artillery Replacement Training Center (FARTC) rifle grenade range) 002 (inert rifle grenade range) 004 (McKenzie Hill small arms range complex) 005 [FARTC rocket range (1 of 2)] and 006 [FARTC rocket range (2 of 2)] as shown on the range map for FSILL-001-R. From the original acquisition of the northern half of this site in 1897 and the acquisition of the southern half between 1940 and 1943 until around 1960 various places within the site have been used for weapons training or demolition. Unexploded ordnance (UXO)/discarded military munitions (DMM)/munitions constituents (MC) were discovered during building and utilities construction and the August 2005 SI. The site FSILL-001-R-02 (Southwest Cantonment Area) was separated out from the original site (FSILL-001-R-01) created in FY2007 on munitions response area (MRA) FSILL-001-R. The site is estimated at approximately 456 acres. A munitions and explosives of concern (MEC) survey and MEC removal action occurred over approximately 218.4 acres. UXO/MEC clearance was completed within the northern 213-acres during 2007-2009. The RI/FS was completed the PP/DD was submitted and approved by the Garrison Commander on March 19, 2014. Cleanup/Exit Strategy – Institutional controls have been implemented at the site per the September 2010 Military Munitions Response Program (MMRP) LUC Plan. This includes annual inspections and reporting and FYRs. Additionally, the installation manages excavations of the area and restricts land use to industrial. The last FYR was completed 2020.

SITE SUMMARY

SITE CLOSEOUT SUMMARY

CRL ID	Site Name	Site Closeout Date
40755.1001	FTSL-001_LANDFILL 1 A	4/30/1990
40755.1002	FTSL-002_LANDFILL 1 B	4/30/1990
40755.1003	FTSL-003_LANDFILL 1 C	4/30/1990
40755.1004	FTSL-004_LANDFILL 1 D	4/30/1990
40755.1005	FTSL-005_LANDFILL 1 E	4/30/1990
40755.1006	FTSL-006_LANDFILL 2 (CAMP DONIPHAN)	4/30/1990
40755.1007	FTSL-007_LANDFILL (3 HEYLES HOLE)	11/30/1999
40755.1009	FTSL-009_LANDFILL 5 (SITTING BEAR CREEK)	9/30/2017
40755.1015	FTSL-015_LANDFILL 11	3/31/2005
40755.1016	FTSL-016_LANDFILL 12	3/31/2005
40755.1017	FTSL-017_LEAF DISPOSAL AREA	5/31/2000
40755.1018	FTSL-018_WOOD DISPOSAL AREA	5/31/2000
40755.1019	FTSL-019_POSSIBLE CLASSIFIED MATERIAL DI	4/30/1990
40755.1020	FTSL-020_LANDFILL 16 (A & B)	4/30/1990
40755.1021	FTSL-021_LANDFILL 17 (CAMP EAGLE)	12/31/1999
40755.1022	FTSL-022_CRATER CREEK CANYON DEMO AREA	3/31/2005
40755.1023	FTSL-023_BATEMAN WOODS DEMO AREA	3/31/2005
40755.1024	FTSL-024_SOUTH ARBUCKLE DEMO AREA	9/30/2003
40755.1025	FTSL-025_CHATTO FLATS DEMO AREA	9/30/2004
40755.1026	FTSL-026_POWDER BURN AREA 1 (ADAMS HILL)	1/31/1996
40755.1027	FTSL-027_POWDER BURN AREA 2(BALD RIDGE R	7/31/1996
40755.1028	FTSL-028_POWDER BURN AREA 3(APACHE GATE)	9/30/1996
40755.1029	FTSL-029_POWDER BURN AREA 4(CHRYSTIE HIL	9/30/1999
40755.1030	FTSL-030_POWDER BURN AREA 5(TOWER TWO RD	7/31/2001
40755.1031	FTSL-031_POWDER BURN AREA 6 (GATE 6)	6/30/1996
40755.1032	FTSL-032_POWDER BURN AREA 7(BLUE BEAVER	7/31/2001
40755.1033	FTSL-033_POWDER BURN AREA 8(QUANAH RANGE	4/30/1990
40755.1034	FTSL-036_POST LAUNDRY WW LAGOON	9/30/1999
40755.1035	FTSL-037_WASTE WATER TREATMENT PLANT	6/30/1997
40755.1036	FTSL-038_LAKE ELMER OXIDATION LAGOONS	9/30/1999
40755.1037	FTSL-039_VEHICLE WASHRACKS (78)	6/30/1996
40755.1038	FTSL-040_BATTERY ACID DIS PIT	9/30/2002
40755.1039	FTSL-041_WASTE BATTERY ACID UST	6/30/1996
40755.1040	FTSL-042_PAINT THINNER DISPOSAL AREA	7/31/2004
40755.1041	FTSL-043_HAZARDOUS WASTE STORAGE AREA	10/31/1991
40755.1042	FTSL-044_USED OIL USTS (81) TANKS	9/30/1997
40755.1043	FTSL-045_FIRE TRAINING AREA	4/30/2003
40755.1045	FTSL-049_OIL SEPERATOR AT 1ST - 78TH MOT	6/30/1996
40755.1046	FTSL-050_PAINT SHOP	6/30/1996
40755.1047	FTSL-051_ASPHALT SPILL SITE	5/31/2002
40755.1048	FTSL-052_SPILL SITE AT DPW TANK AREA	6/30/1996
40755.1049	FTSL-053_PATH AND INF WASTE INCENERATOR	6/30/1996

CRL ID	Site Name	Site Closeout Date
40755.1050	FTSL-054_CLASSIFIED DOCUMENTS INCINERATO	6/30/1996
40755.1051	FTSL-055_BATTERY ACID NEUT. TANK	6/30/1996
40755.1052	FTSL-056_CHEMICAL STORAGE SHED NEAR BLDG	6/30/1996
40755.1053	FTSL-057_PAINT BOOTHS AT BLDG 2262	6/30/1996
40755.1054	FTSL-058_CAPACITOR STORAGE AREA, BLDG 19	6/30/1996
40755.1055	FTSL-059_CAPEX AREA - UXO CLEARANCE	4/30/1990
40755.1056	FTSL-060_BUILDING 4700 - HOSPITAL LABORA	9/30/1997
40755.1057	FTSL-061_EQUIPMENT MAINTENANCE SHOP SPIL	4/30/1990
40755.1058	FTSL-062_CONTAMINATED FILL AT INACTIVE S	4/30/1994
40755.1059	FTSL-063_ADAMS HALL, BLDG 5020 - SURFACE	12/31/1994
40755.1060	FTSL-064_BLDG 2209 - OPEN PIT, FORMER O	7/31/1998
40755.1061	FTSL-065_UXO CLEARANCE - BLUE BEAVER	9/30/1994
40755.1062	FTSL-066_UXO CLEARANCE - SPOTS RANGE	9/30/1994
40755.1063	FTSL-067_UXO CLEARANCE - POTATO HILL	9/30/1994
40755.1064	FTSL-068_UXO CLEARANCE - MCKENZIE HILL	9/30/1994
40755.1065	FTSL-069_UXO CLEARANCE - ROCKET POND	9/30/1994
40755.1066	FTSL-070_BULK POL STORAGE AREA, Blg 2330	12/31/1996
40755.1067	FTSL-089_DUMPING SITE AT KETCH LAKE BUNK	1/31/1996
40755.1068	FTSL-090_OLD MEDICAL WASTE INCINERATOR	9/30/2003
40755.1069	FTSL-48_CONTAMINATED FUEL ACCUMULATION A	8/31/1994
40755.1073	PBA@FTSL_PBA@FTSL_IR	8/15/2014
40755.1070	FSILL-001-R-01_CANTONMENT AREA	7/31/2011
40755.1072	FSILL-002-R-01_MB2/MB3 SMALL ARMS RANGES	10/31/2014
40755.1074	CC-FTSL001_BUILDING 5150 AST TANK FARM S	9/30/2005
40755.1075	CC-FTSL002_MB2 & MB3 SMALL ARMS RANGES	3/31/2005

COMMUNITY INVOLVEMENT

Community Involvement Plan (Date Last Reviewed):	5/13/2020
Technical Review Committee Establishment Date:	N/A
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Reasons for Not Establishing RAB:	No sufficient, sustained community interest in a RAB has been expressed by the community.
RAB Date of Solicitation from Community:	6/18/2023
RAB Results of Solicitation:	No community interest.
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A
Administrative Record Location:	Fort Sill Environmental Quality Division Data Library 2515 Ringgold Road, Fort Sill, OK 73503
Information Repository Location:	Lawton Public Library: 110 SW 4th Street, Lawton, OK 73501

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Status	Review Type	Start Date	End Date	Plans Narrative	Actions Narrative	Results Narrative
Planned	FYR	1/1/2024	9/30/2024	N/A	N/A	N/A
Completed	FYR	10/1/2018	5/28/2020	The next FYR will be completed in FY24.	The long-term protectiveness of the remedial action will be maintained with continued maintenance and verified through periodic landfill inspections and through a FYR process.	Because the remedial actions at each of the historic landfill sites currently prevent exposure to remaining contamination, the remedy is considered protective of human health and the environment.