

FORT CARSON

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 CARSON

Installation City: FORT CARSON

Installation County: EL PASO, PUEBLO, FREMONT, LAS ANIMAS

Installation State: CO

Regulatory Participation - Federal: US Environmental Protection Agency (USEPA), Region 8

Regulatory Participation - State: Colorado Department of Public Health and Environment (CDPHE)

ACRONYMS

Acronym	Definition
AOPI	Areas of Potential Interest
BAAF	Butts Army Airfield Facilities
CAP	Corrective Action Plan
CC	Compliance-Related Cleanup
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CGWS	Colorado Ground Water Standards
CLA	Combined Landfill Area
CMI(O)	Corrective Measures Implementation (Operations)
CMS	Corrective Measures Study
COC	Contaminants of Concern
CRL	Cleanup Restoration & Liabilities
DCA	Dichloroethane
DCS	Deputy Chief of Staff
DLA	Defense Logistics Agency
ENV	Environmental
ET	Evapotranspiration
FS	Feasibility Study
ft	feet
FYR	Five-Year Review
IAP	Installation Action Plan
ID	Identification
IR	Installation Restoration
IRA	Interim Remedial Action
ISCO	In Situ Chemical Oxidation
ISEB	In Situ Enhanced Bioremediation
LTM	Long-Term Management
LUC	Land Use Control
MATES	Maneuver Area Training Equipment Site
MNA	Monitored Natural Attenuation
MR	Munitions Response
MRSPP	Munitions Response Site Prioritization Protocol
NFA	No Further Action
NPL	National Priorities List
OPS	(Colorado Division of) Oil and Public Safety
PA	Preliminary Assessment
PAH	Polycyclic Aromatic Hydrocarbon
PCE	Tetrachloroethylene
PCMS	Piñon Canyon Maneuver Site

Acronym	Definition
PCP	Pentachlorophenol
PFAS	Per- and Polyfluoroalkyl Substances
POL	Petroleum, Oil, and Lubricants
PR	Periodic Review
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RFA	Resource Conservation and Recovery Act Facility Assessment
RFI	Resource Conservation and Recovery Act Facility Inspection
RI	Remedial Investigation
RIP	Remedy-In-Place
RRSE	Relative Risk Site Evaluation
SC	Site Closeout
SI	Site Inspection
SVOC	Semi-Volatile Organic Compound
SWMU	Solid Waste Management Unit
TAPP	Technical Assistance for Public Participation
TCE	Trichloroethylene
TPH	Total Petroleum Hydrocarbons
USACE	US Army Corps of Engineers
USEPA	US Environmental Protection Agency
UST	Underground Storage Tank
UXO	Unexploded Ordnance
VC	Vinyl Chloride
VOC	Volatile Organic Compounds
WP	Work Plan

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: 9/20

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

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

SITE-LEVEL INFORMATION

08005.1002_FTC-006_LANDFILLS 2/3 (1960-1978)

Env Site ID: FTC-006

Cleanup Site: LANDFILLS 2/3 (1960-1978)

Alias: SWMU 2/3

Regulatory Driver: RCRA-C

RIP Date: 9/16/2014

RC Date: 9/16/2014

RC Reason: All Required Cleanup(s) Completed

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
RFA:	10/31/1982	1/31/1983
CS:	3/31/1995	11/30/1998
RFI/CMS:	5/15/1996	6/13/2012
DES:	6/13/2012	10/15/2012
IRA:	9/30/1992	12/31/1992
CMI(C):	10/15/2012	9/15/2014
CMI(O):	9/16/2014	9/16/2014
LTM:	9/16/2014	9/30/2054

Site Narrative: Solid Waste Management Unit (SWMU) 2 and 3 (FTC-006 & FTC-007) are contiguous landfills located in the northeast part of Fort Carson within Training Area Bravo. The landfills operated from 1957 to 1978. The facility accepted sanitary waste sludge from multiple sources, waste petroleum oil and lubricants (POL), cinder, ash, and possibly explosives and unexploded ordnance (UXO). A combined trench and area fill method were used at this 80-acre site. Approximately 50-acres is soil cover. Both landfills were properly closed in accordance with solid waste regulations. The 1994 Resource Conservation and Recovery Act (RCRA) facility assessment (RFA) identified this site for inclusion in the RCRA Part B permit. Surface water control measures were installed in 1992. Grading activities were conducted in 1998 and 2,000 to further control surface water. Groundwater monitoring results indicate that no significant impacts to the surrounding environment have resulted from past landfill operations. Methane levels at the unit boundary in one permanent soil gas probe were detected above the five percent permitted under solid waste regulations. The RCRA facility inspection (RFI) was approved in November 2005 and the corrective measures study (CMS) was approved in June 2012. The selected remedy is a modified evapotranspiration (ET) cap and long-term management (LTM). The Final Construction Completion Report was submitted to Colorado Department of Public Health & Environment (CDPHE) and approved in September 2014. LTM was initiated at the end of FY2014. Per Fort Carson's RCRA Permit post-closure care and maintenance is required for at least 30 years and land use controls (LUC) are specified with no end date. The site is fenced and per the LUCs no future use of any type is allowed other than the landfill. While the monitoring portion of LTM will end in the future LUC inspections and periodic reviews will continue indefinitely.

Cleanup/Exit Strategy - LTM (cover maintenance monitoring LUC inspections and periodic reviews) will continue.

08005.1003_FTC-008_LANDFILL 4 (1957)

Env Site ID: FTC-008

Cleanup Site: LANDFILL 4 (1957)

Alias: SWMU 4

Regulatory Driver: RCRA-C

RIP Date: 9/16/2008

RC Date: 9/16/2008

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
RFA:	10/31/1982	1/31/1983
CS:	3/31/1995	12/31/1998
RFI/CMS:	10/31/1998	9/16/2008
DES:	--	--
IRA:	--	--
CMI(C):	--	--
CMI(O):	--	--
LTM:	9/16/2008	9/30/2054

Site Narrative: SWMU 4 (FTC-008) former Landfill 4 is located in the northeast section of the cantonment area (approximately three acres). A portion of Defense Logistics Agency (DLA) is over the landfill with LUCs. The future use of this area will be similar to existing outdoor storage with the same LUCs. The landfill was excavated into the alluvium and operated for about six months in 1957 to receive construction debris, sanitary wastes, and possibly small amounts of sludge and waste petroleum oil and lubricants. The presence of shallow groundwater (less than 5-feet (ft)) forced the landfill to close. The 1994 RFA identified this site for inclusion in the RCRA Part B permit. The RFI (second revision) was approved in October 2003; no CMS was imposed. Annual groundwater monitoring and inspections of the asphalt cover are currently being performed. The RFI/CMS was finalized by permit modification on Sept. 16, 2008. The remedy for this landfill did not involve any construction beyond the existing cover system. Therefore, consistent with post-closure requirements for landfills and as identified in Fort Carson's RCRA Permit, the period of compliance evaluation is 30 years from the start of groundwater monitoring which began in 1996. The RCRA Permit also specifies LUCs with no end date. While the monitoring portion of LTM will end in the future, LUC inspections and periodic reviews will continue indefinitely. The last periodic review was conducted in 2020.

Cleanup/Exit Strategy - LTM (cap maintenance monitoring LUC inspections and periodic reviews) will continue.

08005.1004_FTC-009_LANDFILL 5 (1946-1956)

Env Site ID: FTC-009

Cleanup Site: LANDFILL 5 (1946-1956)

Alias: SWMU 5

Regulatory Driver: RCRA-C

RIP Date: 12/28/2004

RC Date: 12/28/2004

RC Reason: All Required Cleanup(s) Completed

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
RFA:	10/31/1982	1/31/1983
CS:	3/31/1995	7/31/1997
RFI/CMS:	7/31/1996	12/28/2004
DES:	--	--
IRA:	5/31/1998	12/28/2004
CMI(C):	--	--
CMI(O):	--	--
LTM:	12/28/2004	9/30/2054

Site Narrative: SWMU 5 (FTC-009) is an abandoned landfill on the far eastern portion of the Cantonment and just south of O'Connell Boulevard that covers approximately 20-acres; it operated from 1946 to 1956. The landfill accepted construction debris mixed sanitary waste, waste POL waste from the old mule barn area coal cinders and ash. The 1994 RCRA Facility Assessment (RFA) identified this site for inclusion in the RCRA Part B permit. A composite cap with an asphalt surface was installed in 1999 covering over 5-acres of the site to manage storm water runoff and facilitate vehicle parking. In 2000, an ET cap was installed over 15-acres and monitoring wells were installed. The ET cap was approved by CDPHE in November 2004 following additional soil classification and cap installation investigation activities. In December 2004, CDPHE approved the Final Initial Groundwater Investigation Summary Report. A CMS was not required, and the CDPHE acknowledged that Landfill 5 has not contributed to groundwater contamination above screening levels down gradient of the landfill. The selected remedy is an ET cap over the eastern portion of the landfill and an asphalt cap over the western portion. LTM was initiated in FY2005. Per Fort Carson's RCRA Permit, post-closure care and maintenance must be conducted for a minimum of 30 years and can be extended. Subsequently periodic reviews will continue past the LTM monitoring.

Cleanup/Exit strategy - LTM (cap maintenance monitoring and periodic reviews) will continue indefinitely.

08005.1006_FTC-011_LANDFILL 7 (1968-1978)

Env Site ID: FTC-011

Cleanup Site: LANDFILL 7 (1968-1978)

Alias: SWMU 7

Regulatory Driver: RCRA-C

RIP Date: 11/4/2014

RC Date: 11/4/2014

RC Reason: All Required Cleanup(s) Completed

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
RFA:	10/31/1982	1/31/1983
CS:	10/31/1998	12/31/1998
RFI/CMS:	12/31/2003	4/12/2013
DES:	4/12/2013	4/12/2013
IRA:	- -	- -
CMI(C):	4/12/2013	11/4/2014
CMI(O):	11/4/2014	11/4/2014
LTM:	11/4/2014	9/30/2054

Site Narrative: SWMU 7 (FTC-011) is a former landfill that is part of the combined landfill area investigation. It is located just south of Evans Army Community Hospital. It operated as a canyon fill from 1968 to 1978, accepting construction debris and other material. It covers six acres with soil cover and was properly closed in accordance with solid waste regulations at the time operations ceased. The 1994 RFA identified this site for inclusion in the RCRA Part B permit. The final CMS work plan (WP) was approved April 12, 2013. The selected remedy ET cap with LTM. The Final Construction Completion Report was approved Nov. 4, 2014, and therefore, LTM was initiated in FY2015. Per Fort Carson's RCRA Permit, post-closure care and maintenance is required for at least 30 years, and LUCs are specified with no end date. The site is fenced and per the LUCs, no future use of any type is allowed other than the landfill. While the monitoring portion of LTM will end in the future, LUC inspections and periodic reviews will continue indefinitely.

Cleanup/Exit Strategy - LTM (cover maintenance monitoring LUC inspections and periodic reviews) will continue.

08005.1007_FTC-012_LANDFILL 8 (1972-1973)

Env Site ID: FTC-012

Cleanup Site: LANDFILL 8 (1972-1973)

Alias: SWMU 8

Regulatory Driver: RCRA-C

RIP Date: 6/27/2012

RC Date: 6/27/2012

RC Reason: All Required Cleanup(s) Completed

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
RFA:	10/31/1982	1/31/1983
CS:	5/31/1998	12/31/1999
RFI/CMS:	10/31/1999	2/11/2011
DES:	2/11/2011	2/11/2011
IRA:	--	--
CMI(C):	2/11/2011	6/27/2012
CMI(O):	6/27/2012	6/27/2012
LTM:	6/27/2012	9/30/2054

Site Narrative: SWMU 8 (FTC-012) is a two-cell landfill located in the northeast part of Fort Carson within Training Area Bravo, which operated from 1972 to 1973 and accepted construction and demolition debris (approximately 10 acres). The facility closed in accordance with solid waste regulations at the time landfill operations ceased. The 1994 RFA identified this site for inclusion in the RCRA Part B permit. RFI fieldwork activities included trenching, soil, gas, monitoring, and groundwater monitoring well installation. A CMS was not required. The remedy selection was finalized February 2011. The selected remedy was a landfill cap and monitoring. LTM began in FY2012. Per Fort Carson's RCRA Permit, post-closure care and maintenance is required for at least 30 years, and LUCs are specified with no end date. The site is fenced, and per the LUCs, no future use of any type is allowed other than the landfill. While the monitoring portion of LTM will end in the future, LUC inspections and periodic reviews will continue indefinitely.

Cleanup/Exit Strategy - LTM (cover maintenance monitoring LUC inspections and periodic reviews) will continue.

08005.1008_FTC-013_LANDFILL 9 (1965-1973)

Env Site ID: FTC-013

Cleanup Site: LANDFILL 9 (1965-1973)

Alias: SWMU 9

Regulatory Driver: RCRA-C

RIP Date: 4/17/2009

RC Date: 4/17/2009

RC Reason: All Required Cleanup(s) Completed

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
RFA:	10/31/1982	1/31/1983
CS:	1/31/1998	1/31/1999
RFI/CMS:	10/31/2002	4/26/2007
DES:	4/26/2007	5/31/2007
IRA:	--	--
CMI(C):	5/31/2007	4/17/2009
CMI(O):	--	--
LTM:	4/17/2009	9/30/2054

Site Narrative: SWMU 9 (FTC-013) is a six and a half-acre abandoned landfill that operated from 1965 to 1973. It is located on the south side of Titus Boulevard and east of Butts Road. The specific nature of activities conducted during the landfill's period of operation is unknown, but most likely consisted of receiving construction debris. This landfill was properly closed in accordance with solid waste regulations at the time landfill operations ceased. The 1994 RFA identified this site for inclusion in the RCRA Part B permit. The RFI was finalized in spring 2006. The CMS which included a cover evaluation was approved April 26, 2007. The landfill is also being used as a solar array to supply electricity to Fort Carson. LTM began in 2009 and includes monitoring and cap maintenance. Per Fort Carson's RCRA Permit, post-closure care and maintenance is required for at least 30 years, and LUCs are specified with no end date. The landfill is fenced, and the LUCs limit access and future use as only a landfill, including the solar array on the surface. While the monitoring portion of LTM will end in the future, LUC inspections and periodic reviews will continue indefinitely.

Cleanup/Exit strategy - LTM (cap maintenance monitoring and periodic reviews) will continue.

08005.1015_FTC-020_GRIT OIL PIT

Env Site ID: FTC-020

Cleanup Site: GRIT OIL PIT

Alias: SWMU 13

Regulatory Driver: RCRA-C

RIP Date: 5/18/2016

RC Date: 4/17/2028

RC Reason: Not assigned

SC Date: 4/18/2031

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	3/31/1988	4/30/1988
CS:	11/30/1995	1/31/1999
RFI/CMS:	11/30/1995	4/18/2014
DES:	4/18/2014	4/18/2014
IRA:	9/30/1999	9/30/2005
CMI(C):	4/18/2014	5/18/2016
CMI(O):	5/18/2016	4/17/2028
LTM:	4/18/2028	4/17/2031

Site Narrative: SWMU 13 (FTC-020) was an open pit dumping area for vehicle wash, facilities and sludge from the industrial, and sanitary wastewater treatment plant operating from the 1960s to 1992. It is located within the Combined Landfill Area (CLA) south of Evans Army Community Hospital and west of the Maneuver Area Training Equipment Site (MATES) complex. This site was included in both the 1994 and 1997 compliance orders on consent. Groundwater contaminants of concern (COC) are 14-dioxane metals and volatile organic compounds (VOC). The RFI was approved in March 2000. The CMS was approved in April 2014. Selected remedy is in situ chemical oxidation (ISCO) to treat the VOC and 14-dioxane contamination in the residual source area near the grit/oil pit; capture of contaminated groundwater using interceptor trenches directly down gradient of the grit/oil pit with air stripping and ex situ chemical oxidation treatment of the extracted groundwater; and monitored natural attenuation (MNA) of the groundwater down gradient of the last interceptor trench. Construction of the remedy was completed September 2015 and approved by CDPHE in May 2016. Remedial operations began in FY2016. The CMI(O) phase is required to continue through April 2028 per the RCRA Permit, followed by three years of post-treatment confirmation monitoring ending in April 2031. Being part of the CLA, SWMU 13 is fenced and off limits to training and building; however, once closed, parts of it may open up for training or building.

Cleanup/Exit Strategy – Corrective measure implementation (operations) (CMI(O)) treatment and monitoring followed by LTM.

08005.1017_FTC-023_FORMER USED/WASTE OIL STORAGE TA

Env Site ID: FTC-023

Cleanup Site: FORMER USED/WASTE OIL STORAGE TA

Alias: SWMU55-111

Regulatory Driver: RCRA-C

RIP Date: 3/15/2018

RC Date: 10/1/2026

RC Reason: Not assigned

SC Date: 10/2/2029

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE: Low

MRSPP: N/A

Phase	Start	End
RFA:	10/31/1982	1/31/1983
CS:	11/30/1998	4/30/1999
RFI/CMS:	5/15/1999	10/15/2011
DES:	--	--
IRA:	10/31/2000	6/30/2003
CMI(C):	10/15/2011	3/15/2018
CMI(O):	11/15/2016	10/1/2026
LTM:	10/1/2026	10/1/2029

Site Narrative: This site (FTC-023) was originally a collection of 57 individual sites (SWMUs 55-111) all Used/Waste Oil Tanks. All but two of the sites (SWMUs 89 and 109) have achieved "Remedy Complete" or no further action (NFA). SWMUs 89 and 109 are currently in the CMI(O) phase. SWMU 89 is located at Butts Army Airfield next to Building 9604, and SWMU 109 is at the north part of the Cantonment next to Building 1392. They are tracked together under the CMI(O) phase because of the consolidation aspect of this site. A) SWMU 89; CMI(O); Selected remedy is enhanced reductive dechlorination. Start date – Nov. 2, 2012; COC - Multiple VOCs. SWMU 89 was nearing completion in 2018 when the hangar nearby was demolished, and a new hangar was constructed. Remediation fluids were injected before the building demo, and then the monitoring wells were all abandoned by US Army Corps of Engineers (USACE) immediately upon construction starting. Replacement monitoring wells were installed July 2020, and CMI(O) monitoring re-started. COCs were not detected after restarting CMI(O), and this site entered the three-year post treatment monitoring period Jan. 1, 2022, and is expected to end Dec. 31, 2024. B) SWMU 109; CMI(O); selected remedy is enhanced reductive dechlorination. Start date - June 14, 2013; COC - Multiple VOCs. A CMS Addendum for SWMU 109 was submitted to CDPHE in July 2020. CDPHE did not approve the CMS Addendum, instead suggesting that Fort Carson conduct a pilot study using the proposed remedy (E-Redox) to determine its efficacy before 'officially' recommending it for the site. The pilot study is being planned.

Cleanup/Exit Strategy- CMI(O) monitoring will continue for site SWMU 89 through 2024. SWMU 109 will also continue CMI(O) monitoring and may have a remedy change after the implementation of the pilot study for E-Redox and then is projected to go into LTM upon reaching remediation goals in FY27.

08005.1020_FTC-026_PETE'S HILL

Env Site ID: FTC-026

Cleanup Site: PETE'S HILL

Alias: SWMU 14

Regulatory Driver: RCRA-C

RIP Date: 11/4/2014

RC Date: 11/4/2014

RC Reason: All Required Cleanup(s) Completed

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
RFA:	3/31/1988	4/30/1988
CS:	--	--
RFI/CMS:	10/31/2000	4/12/2013
DES:	4/12/2013	7/10/2013
IRA:	9/30/1993	9/30/1995
CMI(C):	7/10/2013	11/4/2014
CMI(O):	11/4/2014	11/4/2014
LTM:	11/4/2014	9/30/2054

Site Narrative: SWMU 14 (FTC-026) was a 13.5-acre landfill that has been included as part of the CLA investigation. It is located within the CLA south of Evans Army Community Hospital and west of the MATES complex. From 1976 to the early 1990s, waste and construction debris were dumped over the head wall of a box canyon. Preliminary RFI activities were conducted in 2002. The Final Presumptive Remedy WP was approved in July 2013, and the Final Construction Completion Report was approved in November 2014 (FY2015). The selected remedy is ET cap with LTM. LTM was initiated in FY2015. Per Fort Carson's RCRA Permit, post-closure care and maintenance is required for at least 30 years, and LUCs are specified with no end date. The site is fenced, and per the LUCs, no future use of any type is allowed other than the landfill. While the monitoring portion of LTM will end in the future, LUC inspections and periodic reviews will continue indefinitely.

Cleanup/Exit Strategy - LTM (cover maintenance monitoring LUC inspections and periodic reviews) will continue.

08005.1027_FTC-033_Fmr Waste Oil/Solv USTs, Bldg 80

Env Site ID: FTC-033

Cleanup Site: Fmr Waste Oil/Solv USTs, Bldg 80

Alias: SWMU 53

Regulatory Driver: RCRA-C

RIP Date: 5/18/2016

RC Date: 4/17/2029

RC Reason: Not assigned

SC Date: 4/18/2032

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	3/31/1988	4/30/1988
CS:	3/31/1997	2/28/1999
RFI/CMS:	2/28/1999	4/18/2014
DES:	4/18/2014	4/18/2014
IRA:	5/31/1991	10/15/2011
CMI(C):	4/18/2014	5/18/2016
CMI(O):	5/18/2016	4/17/2029
LTM:	4/18/2029	4/17/2032

Site Narrative: SWMU 53 (FTC-033) is the site of two former waste oil/solvent underground storage tanks of approximately 26,000-gallons each. This site is combined with SWMU 16 (FTC-058), which is a former vapor degreaser pit utilized within Building 8000 until 1992. Both sites are associated with Building 8000 (located north of O'Connell Boulevard and east of Minick Avenue) and are therefore combined into one site. COC are VOCs and 14-Dioxane. The CMS was approved in May 2012. The remedy was selected in September 2012 and then modified on April 18, 2014. The selected remedy is vacuum-enhanced pumping with ex situ catalyzed hydrogen peroxide treatment of groundwater. Construction of the remedy was completed in October 2015 and approved by CDPHE in May 2016. Remedial operations began in FY2016. The CMI(O) phase is required to continue through April 2029 per the RCRA Permit, followed by three years of post-treatment confirmation monitoring ending in April 2032.

Cleanup/Exit Strategy - CMI(O) treatment and monitoring followed by LTM.

08005.1053_FTC-058_FORMER VAPOR DEGREASER

Env Site ID: FTC-058

Cleanup Site: FORMER VAPOR DEGREASER

Alias: SWMU 16

Regulatory Driver: RCRA-C

RIP Date: 5/18/2016

RC Date: 4/17/2029

RC Reason: Not assigned

SC Date: 4/18/2032

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	10/31/1982	1/31/1983
CS:	3/31/1995	12/31/1998
RFI/CMS:	1/31/1998	4/18/2014
DES:	4/18/2014	4/18/2014
IRA:	10/31/1999	12/31/1999
CMI(C):	4/18/2014	5/18/2016
CMI(O):	5/18/2016	4/17/2029
LTM:	4/18/2029	4/17/2032

Site Narrative: A vapor degreaser (SWMU 16/ FTC-058) operated from the mid-1970s until 1992 within Building 8000 when it was removed. Building 8000 is located north of O'Connell Boulevard and east of Minick Avenue. The CMS was approved in May 2012. COC are VOCs and 14-Dioxane. The remedy was selected in September 2012 and then modified on April 18, 2014. The selected remedy is vacuum-enhanced pumping with ex situ catalyzed hydrogen peroxide treatment of groundwater. Construction of the remedy was completed in October 2015, and CDPHE approved it in May 2016. Remedial operations began in FY2016. The CMI(O) phase is required to continue through April 2029 per the RCRA Permit, followed by three years of post-treatment confirmation monitoring ending in April 2032.

Cleanup/Exit Strategy - CMI(O) monitoring and treatment followed by LTM.

08005.1065_FTC-070_UST near Building 202

Env Site ID: FTC-070

Cleanup Site: UST near Building 202

Alias: SWMU 164

Regulatory Driver: RCRA-C

RIP Date: 12/31/2009

RC Date: 10/1/2026

RC Reason: Not assigned

SC Date: 10/2/2028

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	1/31/1988	3/31/1988
CS:	10/31/1996	12/31/1999
RFI/CMS:	10/31/2000	9/14/2009
DES:	9/14/2009	12/31/2009
IRA:	- -	- -
CMI(C):	12/31/2009	12/31/2009
CMI(O):	12/31/2009	10/1/2026
LTM:	10/1/2026	10/1/2028

Site Narrative: SMWU 164 (FTC-070) is located at the north end of the Cantonment west of Gate 4 and adjacent to Building 207. It is the former location of a 1,000-gallon underground storage tank (UST) that used to hold paintbrush-cleaning chemicals. The building and tank were removed in 1993. Contents of the UST were determined to be petroleum hydrocarbons. During excavation of contaminated soil, a chlorinated solvent was detected prompting the site to be added to the RCRA permit. COCs - tetrachloroethylene (PCE) and trichloroethylene (TCE). Final remedy was selected in September 2009; treatment has consisted of ISCO using potassium permanganate. Four sets of injections were conducted from 2009 to 2014. To date, the COCs remain with little sign of remedy completeness. It was suspected that the source still laid beneath Building 207, which was recently demolished. An RFI Addendum was completed and CDPHE approved the report in January 2023. A CMS was completed and approved by CDPHE in Nov 2023. The CMS recommended dig-and-haul as a new remedy to finish off this site. The RCRA Permit will have to be modified in order to move forward with the proposed dig-and-haul.

Cleanup/Exit Strategy - , CMI(O) monitoring continues. Work with regulatory agency to change remedy. Modify contract for new remedy and perform the dig-and-haul, then perform two years post-removal groundwater monitoring.

08005.1076_FTC-083_North Specker Avenue Plumes

Env Site ID: FTC-083

Cleanup Site: North Specker Avenue Plumes

Alias: SMWU 167

Regulatory Driver: RCRA-C

RIP Date: 2/15/2014

RC Date: 10/1/2026

RC Reason: Not assigned

SC Date: 10/2/2029

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	3/31/1997	5/31/1997
CS:	3/31/1997	5/31/1997
RFI/CMS:	5/31/1997	3/29/2013
DES:	3/29/2013	9/4/2013
IRA:	3/31/2001	9/30/2005
CMI(C):	9/4/2013	2/15/2014
CMI(O):	2/15/2014	10/1/2026
LTM:	10/1/2026	10/1/2029

Site Narrative: SWMU 167 (FTC-083) was identified following UST removals at Building 749.

Investigations performed along North Specker Avenue between 1994 and 2002 located a source area and defined the nature and extent of contamination. Several VOCs and semi-volatile organic compounds (SVOC) were detected in groundwater at concentrations exceeding Colorado Ground Water Standards (CGWS). Four of the analytes (benzene, 1,1-dichloroethene, PCE, and TCE) have been detected over the course of the investigation and have a wide spatial distribution. PCE forms a plume approximately 450-ft wide and 3,900-ft long (starting in the north part of the Cantonment near Building 626 and snaking its way southeast going past Building 749 and through the building complex of 1043, 1044, and 1048). The source of the plume is attributed to several underground sand and grease traps. The COCs are PCE, TCE, cis-1,2-DCE, and vinyl chloride (VC). The CMS was approved in January 2013. The remedy was selected in March 2013 and is in situ enhanced bioremediation (ISEB). The CMI WP was approved in September 2013. The first injection of remediation fluids was conducted in February 2014. Remedial monitoring began in FY2014. Additional remediation fluids were injected in select areas in February 2020, which should have completed the treatment portion of the remedy, but didn't, so additional selective-area injections were done October 2023.

Cleanup/Exit Strategy - CMI(O) monitoring will continue, followed by three-year post-treatment monitoring after all COCs are below cleanup goals and it has been determined that treatment has ceased.

08005.1078_FTC-093_Former POW Camp

Env Site ID: FTC-093

Cleanup Site: Former POW Camp

Alias: SWMU 168

Regulatory Driver: RCRA-C

RIP Date: 12/22/2009

RC Date: 9/30/2054

RC Reason: Not assigned

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
RFA:	9/30/2000	11/30/2000
CS:	9/30/2000	11/30/2000
RFI/CMS:	11/30/2000	12/22/2009
DES:	12/22/2009	12/22/2009
IRA:	--	--
CMI(C):	12/22/2009	12/22/2009
CMI(O):	12/22/2009	9/30/2054
LTM:	--	--

Site Narrative: SWMU 168 (FTC-093) is a former prisoner-of-war camp located at the intersection of Inchon Circle and Funk Avenue (northwest part of the Cantonment). It was identified in July 2000 when construction activities uncovered an orange-red substance in the soils. Excavations were conducted to determine nature and extent of contamination. During excavation activities, deteriorated containers and a concrete slab were discovered approximately 2-ft below ground surface. Soil samples indicated the presence of VOCs and SVOCs. An additional excavation was performed that terminated 20 to 21-ft below ground surface because of refusal conditions. At that time, no contaminants in soil were identified. However, low levels of pentachlorophenol (PCP) in groundwater have been identified as a contaminant requiring remediation. COC - PCP. An RFI was approved, and a presumptive remedy selection was finalized Dec. 22, 2009, and codified in the RCRA Permit. Treatment has consisted of ISCO using potassium permanganate. Four sets of injections were conducted from 2010 to 2014. To date, the COC remains with little sign of remedy completeness. Supplemental RFI work is nearing completion to better characterize the site. A CMS is scheduled to occur next. It is expected that a new remedy will result from the CMS, leading to a permit change and a new path forward.

Cleanup/Exit Strategy - Finalize the Supplemental RFI Addendum Report through regulatory approval. Develop and finalize the CMS and possibly determine new remedy, all the while CMI(O) monitoring continues.

08005.1081_CC 106_BLDG P150

Env Site ID: CC 106

Cleanup Site: BLDG P150

Alias: P150

Regulatory Driver: RCRA-I

RIP Date: 1/20/2011

RC Date: 10/1/2026

RC Reason: Not assigned

SC Date: 10/2/2026

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
ISC:	6/30/1993	6/30/2000
INV:	6/30/1999	6/30/2000
CAP:	9/30/2007	1/20/2011
DES:	--	--
IRA:	--	--
IMP(C):	1/20/2011	1/20/2011
IMP(O):	1/20/2011	10/1/2026
LTM:	--	--

Site Narrative: This is a bulk fueling point for the Piñon Canyon Maneuver Site (PCMS) located at the south end of the PCMS Cantonment. It was originally constructed in 1986 with two 30,000-gallon USTs and three 20,000-gallon USTs. The whole system was replaced in 1993 after a series of leak events. The new tanks that were installed included five 20,000-gallon fiberglass-reinforced plastic USTs. Currently, four of the tanks contain F-24 fuel and the fifth contains gasoline. Starting in 2007, another series of leaks occurred with the last leak occurring in 2011. Fort Carson worked with the Colorado Division of Oil and Public Safety (OPS) on developing a Corrective Action Plan (CAP). The latest CAP was modified and approved in 2012. The approved CAP called for the continued removal of free product and groundwater sampling at 10 wells around the site. In July 2013, the removal of product and sampling of the wells was suspended, pending the construction of a new bulk fuel point, utilizing above-ground tanks, and removing the existing USTs making the site available for cleanup. This site is in the CMI(O) phase. Currently, it is monitored semiannually by taking fluid level measurements at 20 monitoring wells around the site, sampling 10 monitoring wells for fuel constituents annually, and submitting a report to OPS. The construction of a new bulk fuel point is in the works. The current schedule for that work indicates that the existing USTs will be removed. At that time, the site is ready for remediation.

Cleanup/Exit Strategy - Continue CMI(O) monitoring until a new fuel point is constructed and existing USTs are removed. Remediate site with oversight from regulatory agency OPS.

08005.1082_CC SW169_SWMU 169 - Building 1211, Forme

Env Site ID: CC SW169

Cleanup Site: SWMU 169 - Building 1211, Forme

Alias: SWMU 169

Regulatory Driver: RCRA-C

RIP Date: 1/23/2014

RC Date: 9/30/2054

RC Reason: Not assigned

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
RFA:	10/31/1994	10/31/1995
CS:	10/31/1995	11/30/1995
RFI/CMS:	10/31/1999	1/23/2014
DES:	1/23/2014	1/23/2014
IRA:	--	--
CMI(C):	1/23/2014	1/23/2014
CMI(O):	1/23/2014	9/30/2054
LTM:	--	--

Site Narrative: SWMU 169 (CC-SW169) is located on both sides of Evans Street, east of Chiles Avenue, and originated from an RFI conducted at nearby Landfill 6. The document concluded that the origin of organic compounds in groundwater and petroleum hydrocarbons in soil may be associated with former fueling station activities. The COC are as follows- 1,2-Dichloroethane (DCA); VC; Benzene; Bis(2-ethylhexyl) phthalate; Benzo[a]anthracene; Benzo[b]fluoranthene; Benzo[a]pyrene; Chrysene; Indeno[1,2,3-cd]pyrene. The initial remedy selected was ISCO, which was not very effective, especially in the 1,2-DCA contaminated area. After several iterations, it was finally decided to divide the site into two areas and treat them separately. The remedy change took effect in January 2014. The area south of Evans Street, which has 1,2-DCA as the contaminant, utilizes ISEB. The area north of Evans Street, which has polycyclic aromatic hydrocarbons (PAH) as the main contaminants, continues to utilize ISCO with some varying delivery methods. After many injections of oxidizing agents and allowing the ISEB time to function, COCs still remain above the cleanup level. Supplemental RFI work has been completed to better characterize the site, but the report is not yet finalized. A CMS is scheduled to occur once the Supplemental RFI Report is approved by the state regulatory agency. It is expected that a new remedy will result from the CMS, leading to a permit change and a new path forward.

Cleanup/Exit Strategy - Finalize the RFI Report through regulatory approval. Develop and finalize the CMS and possibly determine new remedy, all the while CMI(O) monitoring continues.

08005.1087_CC SW001_SWMU 1 - Landfill 1

Env Site ID: CC SW001

Cleanup Site: SWMU 1 - Landfill 1

Alias: SWMU 1

Regulatory Driver: RCRA-C

RIP Date: 11/4/2014

RC Date: 11/4/2014

RC Reason: All Required Cleanup(s) Completed

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
RFA:	10/31/1994	10/31/1995
CS:	10/31/1995	11/30/1995
RFI/CMS:	11/30/1995	4/12/2013
DES:	4/12/2013	6/20/2013
IRA:	- -	- -
CMI(C):	6/20/2013	11/4/2014
CMI(O):	11/4/2014	11/4/2014
LTM:	11/4/2014	9/30/2054

Site Narrative: CC SW001 (FTC-005) is a former landfill that is part of the CLA investigation. It is located within the CLA south of Evans Army Community Hospital and west of the MATES complex. The municipal portion of the landfill was approximately 50-acres that included a 12-acre construction debris area. Both areas were closed in 1998. Groundwater sample results indicated inorganics at concentrations above Colorado Ground Water Standards (CGWS) and chlorinated VOCs in several down gradient wells. It is unknown whether down gradient contamination is related to this site or the adjacent grit/oil pit. The RFI Report was approved in 2004, and a CMS was imposed by CDPHE. The draft final CMS was approved in April 2013. In January 2014, the landfill cap was completed, and the final construction completion report was approved in November 2014. LTM began in November 2014 (FY2015). Per Fort Carson's RCRA Permit, post-closure care and maintenance is required for at least 30 years, and LUCs are specified with no end date. The site is fenced, and per the LUCs, no future use of any type is allowed other than the landfill. While the monitoring portion of LTM will end in the future, LUC inspections and periodic reviews will continue indefinitely.

Cleanup/Exit Strategy - LTM (cover maintenance monitoring LUC inspections and periodic reviews) will continue.

08005.1097_CC SW170_SWMU 170 - Const.& Debris Landf

Env Site ID: CC SW170

Cleanup Site: SWMU 170 - Const.& Debris Landf

Alias: SWMU 170

Regulatory Driver: RCRA-C

RIP Date: 11/4/2014

RC Date: 11/4/2014

RC Reason: All Required Cleanup(s) Completed

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
RFA:	10/31/1994	10/31/1995
CS:	10/31/1995	11/30/1995
RFI/CMS:	3/31/2002	9/4/2012
DES:	9/4/2012	5/13/2013
IRA:	- -	- -
CMI(C):	5/13/2013	11/4/2014
CMI(O):	11/4/2014	11/4/2014
LTM:	11/4/2014	9/30/2054

Site Narrative: SWMU 170 CC SW170 (FTC-099) is known as the Construction Debris Landfill is a 19-acre area located south of the Cantonment Area within the Combined Landfill Area. Disposal activities began sometime after 1978 and ceased on March 31, 2002, under a compliance order from CDPHE. The remedy was selected in September 2012; placement of a RCRA Subtitle C equivalent water balance cap with stormwater management controls and groundwater as well as landfill gas monitoring. The landfill cap construction was completed January 2014, and the final construction completion report was approved by CDPHE in November 2014. LTM began in late 2014 (FY2015). Per Fort Carson's RCRA permit, post-closure care and maintenance is required for at least 30 years, and LUCs are specified with no end date. The site is fenced, and per the LUCs, no future use of any type is allowed other than the landfill. While the monitoring portion of LTM will end in the future, LUC inspections and periodic reviews will continue indefinitely.

Cleanup/Exit Strategy - LTM (cover maintenance monitoring LUC inspections and periodic reviews) will continue.

08005.1137_FTC-PFAS_PFAS

Env Site ID: FTC-PFAS

Cleanup Site: PFAS

Alias: #

Regulatory Driver: CERCLA

RIP Date: 12/31/2028

RC Date: 12/31/2028

RC Reason: Not assigned

SC Date: 1/1/2029

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	9/30/2017	9/27/2018
SI:	9/28/2018	1/20/2022
RI/FS:	1/21/2022	12/31/2028
RD:	--	--
IRA:	--	--
RA(C):	--	--
RA(O):	--	--
LTM:	--	--

Site Narrative: Per direction from Deputy Chief of Staff (DCS) G-9, a site was created to account for all PFAS costs at the installation. A preliminary assessment (PA)/site inspection (SI) has been completed to identify all releases of PFAS to the environment. PA/SI Report has identified nine areas of potential interest (AOPI) that require further study in a remedial investigation (RI). These are as follows- 1) Former Firefighting Training Area (SWMU 24 08005.1016); 2) Former Sewage Treatment Lagoons (SWMU 23 08005.1086); 3) Former Nozzle Testing Area (Former Fire Station B9600); 4) Building 9608; 5) Hangar 9633; 6) Landfill 1 (SWMU 1 08005.1087); 7) Grit/Oil Pit (SWMU 13 08005.1015); 8) Building 8110; and 9) PCMS Hill Ranch. Two other AOPIs will receive additional supplemental sampling to either rule them out of further investigation or add them to the list for RI. These two additional AOPIs are the Golf Course (closed SWMUs 32 & 33 08005.1030 & 1028) and Building 1982.

Cleanup/Exit Strategy - Award the contract for the RI/FS and perform that phase of work.

08005.1138_08005.1138_BLDG 220/221 - SWMU 171

Env Site ID: 08005.1138

Cleanup Site: BLDG 220/221 - SWMU 171

Alias: SWMU 171

Regulatory Driver: RCRA-C

RIP Date: 6/30/2028

RC Date: 6/30/2028

RC Reason: Not assigned

SC Date: 7/1/2028

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: Not assigned

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	11/1/2020	11/1/2020
CS:	--	--
RFI/CMS:	12/6/2021	6/30/2028
DES:	--	--
IRA:	--	--
CMI(C):	--	--
CMI(O):	--	--
LTM:	--	--

Site Narrative: SWMU 171 is located in the northern portion of the cantonment within the rail yard. During the demolition of Buildings 220 and 221, evidence of fuel in the soil was discovered under Building 221. The soil was tested for VOCs, SVOCs, RCRA, metals, and total petroleum hydrocarbons (TPH). There were minor detections in all the categories, but the only one of significant level was diesel. The state regulatory agency, CDPHE was notified about the findings. In December 2021, CDPHE issued a RCRA Permit modification requiring Fort Carson to submit a RCRA RFI WP to start the remediation process. It is expected that the RFI will be completed by the end of 2026. This site is in the RFI/CMS phase.

Cleanup/Exit Strategy - Develop RFI WP, perform the work and determine if a CMS is required. Remediation may be able to occur during the RFI.

SITE SUMMARY

SITE CLOSEOUT SUMMARY

CRL ID	Site Name	Site Closeout Date
08005.1001	FTC-005_LANDFILL 1	1/31/1983
08005.1005	FTC-010_LANDFILL 6 (1942-1946)	3/31/2002
08005.1009	FTC-014_LANDFILL 10	8/31/2000
08005.1010	FTC-015_LANDFILL 11	9/30/2005
08005.1011	FTC-016_LANDFILL 12	10/31/1997
08005.1012	FTC-017_Range 1, Open Burn Grounds	1/31/2012
08005.1013	FTC-018_Range 1A, Open Burn Grounds	6/30/2006
08005.1014	FTC-019_Range 121, Open Detonation Groun	1/31/1998
08005.1016	FTC-021_ABANDONED FIRE TRAINING AREA	9/15/2023
08005.1018	FTC-024_DRMO, Inactive Haz Waste Stor Ar	9/30/2005
08005.1019	FTC-025_Haz Waste & PCB Stor Fac, Bldg 9	1/31/1983
08005.1021	FTC-027_Range 123, Open Burn Grounds	9/30/2003
08005.1022	FTC-028_Silver Recovery Unit, Bldg 6270	4/30/1988
08005.1023	FTC-029_OLD ARMY HOSPITAL INCINERATOR	4/30/1988
08005.1024	FTC-030_WASTE OIL BURNER BUILDING 1860	4/30/1988
08005.1025	FTC-031_INDUSTRIAL WASTE WATER PLANT(ACT	1/31/1983
08005.1026	FTC-032_Vehicle Wash Rack Storm Drainage	9/30/2006
08005.1028	FTC-034_Golf Course Sewage Trtmnt Plt Ef	4/30/1988
08005.1029	FTC-035_Silver Recovery Unit, Bldg 6010	4/30/1988
08005.1030	FTC-036_Golf Course Holding Pond	1/31/1983
08005.1031	FTC-037_PHOTO SHOP SILVER RECOVERY UNIT	4/30/1988
08005.1032	FTC-038_Silver Recovery Unit, Bldg 1800	4/30/1988
08005.1033	FTC-039_SEWAGE TREATMENT LAGOONS AT BAAF	1/31/1983
08005.1034	FTC-040_FORMER OPEN DUMPING AREA, RANGE	8/31/2003
08005.1035	FTC-041_Fmr Long-Term Haz Waste Stor, 80	2/29/2008
08005.1036	FTC-042_SEWAGE TREATMENT PLANT(ACTIVE)	1/31/1983
08005.1037	FTC-043_DIO Hazardous Waste Storage Area	9/30/2007
08005.1038	FTC-044_DRAINAGE DITCH, ADJACENT TO BUIL	10/31/2004
08005.1039	FTC-045A_BATTERY ACID NEUTRALIZATION BLD	9/30/2005
08005.1040	FTC-045B_BATT. ACID NEUTRAL.-8000 (activ	1/31/1983
08005.1041	FTC-045C_BATTERY ACID NEUTRALIZATION BLD	9/30/2005
08005.1042	FTC-046_Veterinary Clinic Incinerator	4/30/1988
08005.1043	FTC-047_LAND SPREADING FIELD	9/30/2008
08005.1044	FTC-048_Demolition Area	1/31/2004
08005.1045	FTC-049_Commissary Incinerator	4/30/1988
08005.1046	FTC-050_Classified Doc Incnrtr, Bldg 143	4/30/1988
08005.1047	FTC-051_FORMER UST SITE, BLDG 9648	8/31/2004
08005.1048	FTC-052_FORMER UST SITE, BLDG 1092	5/31/1991
08005.1049	FTC-053_FORMER UST SITE BLDG 7500	5/31/1990
08005.1050	FTC-054_FORMER UST SITE, BLDG 8000	2/29/2000
08005.1051	FTC-055_FORMER UST SITE, BLDG 981	6/30/2001
08005.1052	FTC-056_FORMER UST SITE, BLDG 1382	12/15/2012

CRL ID	Site Name	Site Closeout Date
08005.1054	FTC-059_IND WASTE TREAT. PLANT PONDS(ACT	1/31/1983
08005.1055	FTC-060_ FORMER UST SITE, BLDG 749	12/31/1999
08005.1056	FTC-061_ FORMER UST SITE, BLDG 1392	2/29/2000
08005.1057	FTC-062_ FORMER UST SITE, BLDG 2392	10/31/2000
08005.1058	FTC-063_ FORMER UST SITE, BLDG 2492	2/29/2000
08005.1059	FTC-064_ FORMER UST SITE, BLDG 2692	2/29/2000
08005.1060	FTC-065_ FORMER UST SITE, BLDG 2792	2/29/2000
08005.1061	FTC-066_ FORMER UST SITE, BLDG 3192	12/31/2000
08005.1062	FTC-067_ FORMER UST SITE, BLDG 8200	2/29/2000
08005.1063	FTC-068_ FORMER UST SITE, BLDG 8300	7/31/2002
08005.1064	FTC-069_ UST SITE, PINON CANYON MANEUVER	9/30/1993
08005.1066	FTC-071_ FORMER UST SITE, BLDG 1100	12/31/1999
08005.1067	FTC-072_ FORMER UST SITE, BLDG 700	12/31/1999
08005.1068	FTC-073_ EQUALIZATION BASIN, BLDG. 1399 (4/30/1988
08005.1069	FTC-075_ OLD CENTRAL WASH RACK	9/30/2012
08005.1070	FTC-076_ Fort Carson Sewer System	3/31/1994
08005.1071	FTC-077_ Former Lime Pit Site in Bldg 811	7/31/1995
08005.1072	FTC-078_ Wash Rack Site North of Bldg 811	12/31/1996
08005.1073	FTC-079_ SLUDGE TRENCH PIT	1/31/2007
08005.1074	FTC-081_ FORMER UST SITE, BLDG 638	12/31/1999
08005.1075	FTC-082_ FORMER UST SITE, BLDG 2992	12/31/1999
08005.1077	FTC-088_ BUILDING 1211	5/31/2001
08005.1079	PBA@Carson_ PBA@Carson	10/15/2015
08005.1080	CC 108_ Old Hospital Complex	6/15/2014
08005.1083	CC SW021_ SWMU 21 - Ind.Waste Treatment F	2/15/2011
08005.1084	CC SW163_ SWMU 163 - Industrial Waste Wat	10/31/2010
08005.1085	CC SW035_ SWMU 35 - New Central Wash Rack	2/15/2011
08005.1086	CC SW023_ SWMU 23 - Sewage Treatment Lago	9/15/2023
08005.1088	CC SW166_ SWMU 166 - Building 8110, Forme	4/30/2012
08005.1089	CC SW006_ SWMU 6 - Landfill 6	9/30/2009
08005.1090	CC SW022_ SWMU 22 - Sewage Treatment Plan	5/15/2013
08005.1091	CC 102_ Buildings 980 and 981	9/30/2012
08005.1092	CC SW028_ SWMU 28 - Battery Neutral Shop,	2/15/2012
08005.1093	CC 085_ Building 1882	9/30/2011
08005.1094	CC SW033_ SWMU 33 - GC STP Effluent & Slu	9/30/2010
08005.1095	CC SW032_ SWMU 32 - Golf Course Holding P	9/30/2010
08005.1096	CC 107_ Former Booster Station PCMS	9/30/2012
08005.1101	CC SW009_ SWMU 9 - Landfill 9	10/31/2004
08005.1102	CC SW011_ SWMU 11 - LANDFILL 11	9/30/2007
08005.1104	CC SW052_ SWMU 52 - Happy Hollow 90-Day H	6/2/2023
08005.1105	CC SW033_ SWMU 33 - GC STP Effluent & Slu	9/30/2009
08005.1107	CC SW028_ SWMU 28 - Battery Neutral Shop,	9/30/2009
08005.1108	CC SW170_ SWMU 170 - Constr.& Demo Debris	9/30/2010
08005.1109	CC SW048_ SWMU 48 - Range 123, Open Burn	7/31/2005
08005.1110	CC SW026_ SWMU 26 - Equalization Basin 13	10/31/2008

CRL ID	Site Name	Site Closeout Date
08005.1115	CC SW165_SWMU 165 - Bat.Acid Neutral.Sho	9/30/2009
08005.1116	CC SW025_SWMU 25 - Open Dumping Area,Ran	9/30/2021
08005.1117	CC SW049_SWMU 49 - Haz.Waste & PCB Strg	9/30/2007
08005.1119	CC SW047_SWMU 47 - Range 121,Open Detona	9/30/2007
08005.1120	CC SW032_SWMU 32 - Golf Course Holding P	9/30/2009
08005.1121	CC 084_Building 1515	9/30/2007
08005.1122	CC 089_Building 1682	10/31/1999
08005.1123	CC 085_Building 1882	10/31/2009
08005.1124	CC 090_Building 1982	10/31/2002
08005.1125	CC 063_Building 2492	10/31/2007
08005.1126	CC 066_Building 3192	9/30/2010
08005.1127	CC 067_Building 8200	10/31/2007
08005.1128	CC 086_Building 9606	9/30/2007
08005.1129	CC 098_Building 9628	9/30/2005
08005.1130	CC 101_Building 9609	10/31/2005
08005.1131	CC 102_Buildings 980 and 981	10/31/2008
08005.1132	CC 103_Buildings 1382 and 1392	7/31/2005
08005.1133	CC 104_Buildings 9647 and 9648	10/31/2007
08005.1134	CC 105_Building 501	9/30/2007
08005.1136	CC PBA@FTC_PBA at Fort Carson	9/30/2009

COMMUNITY INVOLVEMENT

Community Involvement Plan (Date Last Reviewed):	8/1/2021
Technical Review Committee Establishment Date:	N/A
Restoration Advisory Board (RAB) Establishment Date:	11/30/1994
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	Lack of interest/stopped meeting
Reasons for Not Establishing RAB:	N/A
RAB Date of Solicitation from Community:	9/12/2021
RAB Results of Solicitation:	No interest in RAB from Community from the last two RAB Solicitations; June 2018 and September 2021.
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A
Administrative Record Location:	CDPHE, Haz-Waste Div, 4300 Cherry Creek Dr S., Denver, CO 80246
Information Repository Location:	DPW, Env Div, 1626 Evans St, Bldg 1219, Fort Carson, CO 80913

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Status	Review Type	Start Date	End Date	Plans Narrative	Actions Narrative	Results Narrative
Completed	PR	10/1/2019	9/30/2020	Remedies are protective of human health and the environment.	Remedies are protective of human health and the environment.	Remedies are protective of human health and the environment.
Planned	PR	10/1/2024	9/30/2025	Anticipate that remedies continue to remain protective of human health and the environment.	Anticipate that remedies continue to remain protective of human health and the environment.	TBD