

FY2012

**FORT LEAVENWORTH
Compliance-Related Cleanup
Installation Action Plan**

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Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multiyear compliance-related cleanup (CC) 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 CC manager, Installation Management Command (IMCOM)- West, the US Army Environmental Command (USAEC), Fort Leavenworth, the Kansas Department of Health and Environment (KDHE), the US Environmental Protection Agency (USEPA) Region VII, and the executing agencies, 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.

The following persons contributed to the formulation and completion of this Installation Action Plan for FORT LEAVENWORTH:

Fort Leavenworth
PB&A, Inc. for USAEC
USAEC
Fort Leavenworth
Fort Leavenworth

Acronyms

AEDB-CC	Army Environmental Database - Compliance-Related Cleanup
AOC	Area of Concern
B & V	Black & Veatch Waste Science and Technology Corporation
Burns & McD	Burns and McDonnell Engineers - Architects - Consultant
CC	Compliance-Related Cleanup
CMI(C)	Corrective Measures Implementation (Construction)
CMI(O)	Corrective Measures Implementation (Operations)
CMS	Corrective Measures Study
CS	Confirmatory Sampling
DERP	Defense Environmental Restoration Program
DES	Corrective Measures Implementation Design
DNF	Document Not Finalized
DRMO	Defense Reutilization and Marketing Office
DWF	Document Waiting to be Finalized
E&E	Ecology and Environment, Inc.
ECC	Environmental Chemical Corporation
FRA	Final Remedial Action
FY	Fiscal Year
IAP	Installation Action Plan
ID	Identification
IMCOM	Installation Management Command
IRA	Interim Remedial Action
K	thousand
KDHE	Kansas Department of Health and Environment
LTM	Long-Term Management
LUC	Land Use Control
N/A	Not Applicable
NFA	No Further Action
NPDES	National Pollutant Discharge Elimination System
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
RA	Remedial Action
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RIP	Remedy-in-Place
SoB	Statement of Basis
SVOC	Semi-Volatile Organic Compound
SWMU	Solid Waste Management Unit
TBD	To Be Determined
TRADOC	Training and Doctrine Command
USACE	US Army Corps of Engineers
USAEC	US Army Environmental Command
USAEHA	US Army Environmental Hygiene Agency

Acronyms

USDB US Disciplinary Barracks
USEPA US Environmental Protection Agency
VOC Volatile Organic Compound

Installation Information

Installation Locale

Installation Size (Acreage): 5634

City: Kansas City

County: Leavenworth

State: Kansas

Other Locale Information

Fort Leavenworth is located on the west bank of the Missouri River. The official name of the facility is the US Army Combined Arms Center and Fort Leavenworth. Fort Leavenworth serves as the home for the Command and General Staff College, National Simulation Center, US Army Training and Doctrine Command (TRADOC) Analysis Center and the US Disciplinary Barracks (USDB). The installation was established in 1827 and is the oldest continuously operating Army installation west of the Mississippi River. The installation is located in northern Leavenworth County, Kansas, approximately 25 miles northwest of the edge of the Kansas City metropolitan area, which has a combined population of about 1.5 million people.

Installation Mission

Fort Leavenworth supports the TRADOC whose primary mission on the fort is the training of officers for command and staff work. This is done at the Command and General Staff College and Battle Command Training Program. The other large mission is the long-term confinement of military prisoners in the USDB. Other significant activities on the fort include coordination of combined arms collective training and the National Simulation Center.

Lead Organization

Lead Executing Agencies for Installation

US Army Corps of Engineers (USACE)- Northwest Region

Regulator Participation

Federal	USEPA Region 7, Resource Conservation and Recovery Act (RCRA)
State	KDHE, Bureau of Environmental Remediation

Installation Program Summaries

CC

Primary Contaminants of Concern: Herbicides, Metals, Pesticides, Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC)

Affected Media of Concern: Groundwater, Sediment, Soil, Surface Water

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201309/201309

Prior Funding: \$2,274.0 K

Current Requirements: \$.0 K

Future Requirements: \$478.0 K

Cleanup Program Summary

Installation Historic Activity

Fort Leavenworth is located on the west bank of the Missouri River about 25 miles northwest of downtown Kansas City, Missouri. The Missouri River marks the northern and eastern boundaries of the fort. The city of Leavenworth is located on the south boundary of the fort. On the southwest side of the installation is the US Penitentiary Leavenworth that was built by prisoners from the fort. Open farmland is to the west.

Fort Leavenworth was established by Colonel Henry Leavenworth, his officers, and the men of the 3d Infantry Regiment in 1827. Its mission was to administer the land to the west belonging to the Indian Tribes, maintain the peace between the Indian Tribes and to protect travelers along the Santa Fe and Oregon Trails.

The fort was the outfitting post for the troops fighting the war with Mexico in 1848. During the Civil War, Fort Leavenworth was an important depot as well as the major base of operations for Union Forces in the west.

Centrally located, Fort Leavenworth became the primary depot for supplies destined for western military posts. It was the primary base for two of the four US Colored Troop regiments that fought in the Indian conflicts.

In 1875, the USDB was established to house military prisoners. Today it is the only long-term maximum-security confinement facility in the Department of Defense (DoD). The School of Application for Cavalry and Infantry, which later evolved into the Command and General Staff College, was established by General William T. Sherman in 1881. Graduates of the school excelled in planning complex Expeditionary Forces Operations in World War I.

In 1946, the school's name changed to the Command and General Staff College. In 1959, Bell Hall was constructed to house the college. The new college, known as Lewis and Clark Hall, was scheduled for occupancy during fall 2007.

Fort Leavenworth continues to be on the leading edge of the Army's future. The community's pride in its history of service to the Army and the nation is matched by its readiness to meet the challenges of the future.

The following statistics were compiled by the Fort Leavenworth Public Affairs Office:

Size of fort: 5,634 acres

Fort's population: Total military: 5,359

Family members on fort: 3,153

USDB inmates: 460

Total civilian employment: 3,380

Financial impact: Military payroll: \$152,100,000

Civilian employees: \$121,900,000

FY05 expenditures, excluding payrolls: \$236,000,000

Three sites (FTL-12, FTL-13, and FTL-68) have been investigated and a no further action (NFA) statement of basis (SoB) has been completed for these sites. All future work on these sites will involve the administrative procedures to close them out in the RCRA Permit. FTL-23 was also investigated and had an NFA SoB completed for this site. The lagoons at FTL-23 were capped as part of an obligation under Fort Leavenworth's National Pollutant Discharge Elimination System (NPDES) permit, which governs the operation of Fort Leavenworth's water treatment system.

Additional groundwater testing at FTL-09 was requested by the regulators. Testing has been performed with no regulatory exceedences for pesticides and herbicides. RCRA closure (remediation complete) status to follow under the SoB process within the next 12 to 18 months. Land use controls (LUCs) (maintenance and surface/groundwater monitoring) are anticipated at FTL-09.

FTL-63 has a number of concerns. One of these concerns is the use of sediment standards for the soil from the drainage area at the bottom of the site could result in an unacceptable exposure to wildlife. Removal of contaminated soil from the main area is expected to be required, if the goal is clean closure. An investigation was performed by the USACE KCD in the fall of 2007. The USACE Risk Assessor is reviewing the analytical data.

Cleanup Program Summary

Installation Historic Activity

FORT LEAVENWORTH
Compliance-Related Cleanup

CC Summary

Total Number of AEDB-CC Sites: 6

Number of sites with site inspection/confirmation sampling complete:6

Number of sites with remedy selected (RI-FS/CMS/RFI complete): 5

Number of sites with construction completed (RA(C)/CMI(C)): 3

Number of sites with closeout complete:4

CC Site Types with Future and/or Underway Phases

- 1 Landfill
(CC FTL-09)
- 1 Storage Area
(CC FTL-63)

Most Widespread Contaminants of Concern

Herbicides, Metals, Pesticides, Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern

Groundwater, Sediment, Soil, Surface Water

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

Site ID	Site Name	Action	Remedy	FY	Cost
CC FTL-68	Weed Control Area, City Airport Oper	IRA	REMOVAL	1991	TBD
CC FTL-09	Closed Active Sanitary Landfill	FRA	CAPPING	1994	TBD
CC FTL-12	Used Oil Tank Near Building 305	FRA	WASTE REMOVAL - SOILS	2005	\$38.0 K
CC FTL-23	Mineral Settling Lagoons	FRA	CAPPING	2009	TBD

CC Contamination Assessment

Contamination Assessment Overview

There are 75 sites currently being tracked by the Installation Restoration Program (IRP). There are 66 Defense Environmental Restoration Program (DERP) sites (15 sites are active), three Military Munitions Response Program (MMRP) sites (two MMRP Sites are active: FTL-001-R-01 and FTL-003-R-01) and six CC sites (two CC sites are active: FTL-09 and FTL-63). This IAP addresses the CC sites. The solid waste management sites addressed in this IAP include one landfill, one contaminated site, and one storage lagoon. This section discusses those sites, which have a significant impact on the environment and future installation activities.

The site of primary concern in the CC is FTL-63 the Defense Reutilization and Marketing Office (DRMO) Scrap Yard. Contamination has been found in the area where scrap was stored. The primary concern in this area was RCRA metals that were deposited on the site due to the scrap metal operation. A site investigation has confirmed that there is metal contamination of the soil as well as PAHs above the screening criteria in the drainage ditch that contains water located to the northeast of the site. The site is moving towards an industrial closure without remediation (LUC).

The one landfill in the CC is FTL-09. The site has been capped. The installation is currently sampling the water from the site for pesticides, which might have been placed in the fill. The testing for pesticides and herbicides in FY07 did not find any contaminants above screening levels. It is expected that in FY10 the site will be remedy-in-place per the RCRA permit. In closing the site, the USEPA noted that the testing requirement per the consent agreement between Fort Leavenworth and KDHE remains in effect and that future testing is still required to comply with the agreement. Providing the testing is negative for pesticides, the site will remain remediation complete.

Two tanks sites, FTL-12 and FTL-68, have been investigated and were in the first batch of SoB documents. FTL-12 has been remediated and the closure report has been accepted. This was in the second SoB group.

FTL-23 was investigated in 2007 with results reported of all constituents below screening criteria. This site was part of the third batch of SoB documents in March 2008 and capped to fulfill obligations of Fort Leavenworth's National Pollutants Discharge Elimination System (NPDES) permit.

Cleanup Exit Strategy

Proper funding is required to obtain exit on the remaining sites. Once that funding has been received, the sites will move towards closure. In the past Fort Leavenworth has utilized Ecology and Environment, Inc. (E&E) to perform CC restoration work, including investigations and limited remedial work. Fort Leavenworth plans on continuing to utilize E&E and USACE for CC sites as additional future funding becomes available.

CC Previous Studies

Sites	Title	Author	Date	
1980	FTL-09	Landfill Design and Permit Application	United States Army Environmental Hygiene Agency (USAEHA)	JUL-1980
1983	FTLs 02, 05, 06, 08 - 19, 23 - 26, 28 - 47, 49 - 52, 54, 59, 64, 68 & 71	Installation Assessment of Combined Arms Center Report No. 327	Environmental Science and Engineering, Inc.	MAR-1983
1984	FTL-09	Evaluation of Solid Waste Disposal Practices and Facilities, June 4-8, 1984	USAEHA	NOV-1984
1986	FTLs 01, 02, 03, 04, 05, 06, 07, 08, 09, 10 & 19	Groundwater Potential Contamination Survey No. 38-26-0916-86	USAEHA	MAR-1986
1987	FTLs 01 - 56	Interim Final Report, Hazardous Waste Consultation No.37-26-1386-88, Evaluation of Solid Waste Management Units	USAEHA	FEB-1987
1988	FTL-63	Specification for Conforming Storage Facility at DRMO	Bibb and Associates, Inc.	MAR-1988
1990	FTL-68	Sherman Army Airfield SWMU 8 Field Sampling Plan	Black & Veatch Waste Science and Technology Corporation (B&V)	MAY-1990
	FTL-68	Transmitting SWMU 8 Containment Assessment	B&V	OCT-1990
1992	FTL-09	Draft Report Closure Plan Sanitary Landfill (Sheridan Drive Site)	Kansas City District, Corps of Engineers	NOV-1992
1994	FTLs 05, 06, 09, 10, 11, 15 & 57	Contamination Evaluation of Specific Solid Waste Management Units Final Report Volumes 1-7	O'Brien & Gere Engineers, Inc.(Burns & McD)	JAN-1994
	FTLs 05, 06, 09, 10, 11 & 19	Site Safety and Health Plan Groundwater Sampling Program	Burns & McD	OCT-1994
	FTLs 05, 06, 09, 10, 11 & 19	Chemical Data Acquisition Plan Groundwater Sampling Program	Burns & McD	OCT-1994
1995	FTLs 05, 06, 09, 10, 11 & 19	Groundwater Monitoring Report, October 1994 Sampling Event	Burns & McD	APR-1995
	FTLs 04, 05, 06, 09, 10, 11 & 57	Chemical Data Acquisition Plan for the Groundwater and Surface Water Sampling Program 1995, 1996, and 1997	Burns & McD	DEC-1995
1996	FTLs 05, 06, 09, 10 & 11	Quality Control Summary Report Groundwater and Surface Water Monitoring Report December 1995	Burns, & McD	APR-1996

CC Previous Studies

1996	Sites	Title	Author	Date
		Sampling Event		
	FTLs 05, 06, 09, 10 & 11	(Final) Groundwater and Surface Water Monitoring Report December 1995 Sampling Event	Burns & McD	SEP-1996
	FTLs 05, 06, 09, 10, 11 & 57	Groundwater and Surface Water Monitoring Report October 1996 Sampling Event	Burns & McD	DEC-1996
1997				
	FTLs 05, 06, 09, 10, 11,15 & 57	Site Health and Safety Plan Annual Monitoring Program	Burns & McD	NOV-1997
	FTLs 05, 06, 09, 10, 11, 15 & 57	Quality Control Plan Annual Monitoring Program	Burns & McD	NOV-1997
1998				
	FTLs 05, 06, 09, 10, 11,15 & 57	Chemical Data Acquisition Plan Addendum for the 1997, 1998 and 1999 Groundwater and Surface Water Sampling Program	Burns & McD	FEB-1998
	FTLs 05, 06, 09, 10, 11,15 & 57	Quality Control Plan Annual Monitoring Program	Burns & McD	FEB-1998
	FTL-63	Draft Quality Assurance Project Plan for the DRMO Site Investigation (DNF)	Burns & McDonnell Engineers - Architects - Consultant (Burns & McD)	NOV-1998
	FTL-63	Draft Quality Control Plan Addendum to Work Plan for Engineering Evaluation/Cost Analysis (4) Site Investigation (2) Six Sites Attachment D Quality Control Plan for Site Investigation DRMO Scrap Yard (DNF)	Burns & McD	DEC-1998
1999				
	FTLs 05, 06, 09, 10, 11,15 & 57	Final Groundwater and Surface Water Monitoring Report and Quality Control Summary Report March 1998 Sampling Event	Burns & McD	JAN-1999
2000				
	FTL-63	(Complete) Field Sampling Plan for the DRMO Site Investigation	Burns & McD	SEP-2000
	FTLs 05, 06, 09, 10, 11, 15 & 57	Final Groundwater and Surface Water Monitoring Report September 1999 Sampling Event	Burns & McD	NOV-2000
	FTLs 05, 06, 09, 10, 11, 15 & 57	Technical Memorandum Chemical Data Acquisition Plan Addendum No. 3 for the 2000 Groundwater and Surface Water Sampling Event	Burns & McD	NOV-2000
	FTLs 05, 06, 09, 10, 11,15 & 57	Final Quality Control Summary Report 1999 Groundwater and Surface Water Monitoring Event	Burns & McD	NOV-2000
2001				
	FTLs 05, 06, 09, 10, 11, 15 & 57	Final Quality Control Summary Report 2000 Groundwater and Surface Water Monitoring Event	Burns & McD	FEB-2001
	FTL-12	Subsurface Investigation at Waste Oil Storage Tank Area North of Building 305	Stevens and Associates, Inc.	MAR-2001

CC Previous Studies

2001

Sites	Title	Author	Date
FTL-63	Final Quality Assurance Project Plan for the DRMO Site Investigation	Burns & McD	APR-2001
FTLs 05, 06, 09, 10, 11, 15 & 57	Final Groundwater and Surface Water Monitoring Report November/December 2000 Sampling Event	Burns & McD	NOV-2001
FTLs 01-71	Final Global Positioning System Survey and Geographical Information System	E&E	NOV-2001

2002

FTLs 05, 06, 09, 10, 11, 15 & 57	Final Sampling and Analysis Plan Part I, Field Sampling Plan Part II, Quality Assurance Project Plan Site Safety and Health Plan, Long-Term Groundwater Monitoring	ECC	APR-2002
FTL-63	Final Quality Control Summary Report for the DRMO Site Investigation	Burns & McD	APR-2002
FTL-63	Final Site Investigation Report for the DRMO Scrap Yard	Burns & McD	MAY-2002
FTLs 05, 06, 09, 10, 11, 15 & 57	Final Sampling and Analysis Plan Addendum	ECC	JUN-2002
FTLs 12, 13 & 63	Revised Nov 2002, Field Sampling Plan, Health and Safety Plan, and Quality Assurance Project Plan Site Safety and Health Plan, Long-Term Groundwater Monitoring	E&E	JUN-2002
FTLs 05, 06, 09, 10, 11, 15 & 57	Final Sampling and Analysis Plan Addendum Part I, Field Sampling Plan Part II, Quality Assurance Project Plan Site Safety and Health Plan, Long-Term Groundwater Monitoring	Environmental Chemical Corporation (ECC)	JUN-2002
FTLs 05, 06, 09, 10, 11, 15 & 57	Fort Leavenworth Groundwater Monitoring Final Quality Control Summary Report Second Quarter 2002 Annual Sampling Event, Volumes 1 through 5	ECC	OCT-2002

2003

FTLs 12, 13 & 63	(Final) Quality Control Plan Supplement IRP and OMA Program Support	E&E	MAR-2003
FTLs 02, 03, 08, 10, 12, 13, 24 & 63	(Final) Field Sampling Plan, Health and Safety Plan, and Quality Assurance Project Plan for IRP and OMA Program Support	E&E	MAR-2003
FTLs 05, 06, 09, 10, 11, 15 & 57	Final Annual Groundwater Monitoring Report 2002 Annual Sampling	EEC	APR-2003
FTL-09	Letter Report for FTL-09 Landfill Maintenance Activities	E&E	APR-2003
FTLs 05, 06, 09, 10, 11, 15 & 57	Final Sampling and Analysis Plan and Site Safety and Health Plan Long-Term Groundwater Monitoring	ECC	JUN-2003
FTL-09	Draft Groundwater and Surface	E&E	OCT-2003

CC Previous Studies

2003

Sites	Title	Author	Date
	Water Monitoring Report for FTL-09, Inactive Landfill, June 2003 Sampling Event for OMA Support (DNF)		
FTL-68	(Final) FTL-68 Reports Evaluation	E&E	OCT-2003
FTL-13	Final RCRA Facility Investigation for Solid Waste Management Unit FTL-13	E&E	DEC-2003

2004

FTL-63	Draft RCRA Facility Investigation for SWMU FTL-63 (DNF)	E&E	JAN-2004
FTL-68	Final FSP , HSP & QAPP Supplement IRP and OMA Program Support	E&E	JAN-2004
FTL-68	Final FTL-68 Confirmation Sampling Report	E&E	JUN-2004
FTL-09	Draft FSP Addendum for FTL-09 (DNF)	E&E	JUN-2004
FTL-09	Draft FSP Addendum and Site Specific QAPP for FTL-09 OMA Program (DNF)	E&E	JUL-2004
FTL-12	Final RCRA Facility Investigation for Solid Waste Management Unit FTL-12	E&E	SEP-2004
FTL-09	Final Groundwater and Surface Water Monitoring Report for FTL-09, Inactive Landfill, July 2004 Sampling Event for OMA Support	E&E	NOV-2004

2005

FTL-12	Final Soil Removal Design and Subcontract for FTL-12	E&E	JAN-2005
FTL-13	Final Statement of Basis for FTL-13	EPA	JUN-2005
FTL-68	Final Statement of Basis for FTL-68	EPA	JUN-2005
FTL-12	Final Confirmation Sampling Report FTL-12	E&E	JUL-2005
FTL-09	Final Groundwater and Surface Water Monitoring Report for FTL-09, Inactive Landfill, April 2005 Sampling Event for OMA Support	E&E	JUL-2005

2006

FTLs 07, 10, 11, 12, 15, 20 & 60	Proposed Cleanup Plans Released for Public Comment US Army Combined Arms Center and Fort Leavenworth	EPA	SEP-2006
FTL-23	Final RCRA Facility Investigation (RFI) Work Plan for FTL-23, Lime Sludge Lagoons	ARCADIS	OCT-2006
FTL-12	Final Statement of Basis United States, Environmental Protection Agency Region 7, US Army Combined Arms Center and Fort Leavenworth, RCRA ID No. KS4213720499, FTL-12 / Used Oil	USEPA Region VII	NOV-2006

CC Previous Studies

2006	Sites	Title	Author	Date
		Tank at Building 305		
2007	FTL-23	Final RFI Report for FTL-23, Lime Sludge Lagoons	ARCADIS	SEP-2007
	FTL-63	Draft Supplemental Investigation Work Plan FTL-63 - DRMO Scrap Yard (DWF)	USACE - Kansas City District	OCT-2007
2008	FTL-23	Final Statement of Basis United States, Environmental Protection Agency Region 7, US Army Combined Arms Center and Fort Leavenworth, RCRA ID No. KS4213720499, FTL-23 / Lime Sludge Lagoons	USEPA Region VII	MAR-2008
	FTL-23	Construction Work Plan & Design Documents Lime Sludge Lagoon Cover	McKinzie Construction, Inc.	APR-2008
	FTL-09	Draft Final Confirmation Sampling Report FTL-09, Inactive Landfill 2006-2007 Sampling Events (DWF)	U.S. Army Corps of Engineers Kansas City District	DEC-2008
2009	FTL-23	Construction Certification and Closure Report, Lime Sludge Lagoon Cover, Fort Leavenworth, Kansas	McKinzie Construction, Inc.	FEB-2009

FORT LEAVENWORTH
Compliance-Related Cleanup
Site Descriptions

Site Name: Closed Active Sanitary Landfill

STATUS

Regulatory Driver: RCRA D

Risk Score: 0A

Contaminants of Concern: Herbicides, Metals, Pesticides, Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Surface Water

Phases	Start	End
RFA.....	199001.....	199202
CS.....	199203.....	199204
RFI/CMS.....	199205.....	199206
DES.....	199207.....	199302
CMI(C).....	199303.....	199312
LTM.....	199401.....	203901

RIP Date: N/A

RC Date: 199312

Closeout Date: 203901

SITE DESCRIPTION

This site started receiving solid waste in 1977. It stopped receiving waste in September 1992 and received a closing cover in 1993.

The site was placed on the Fort Leavenworth RCRA Permit in 2000. A Consent Agreement between Fort Leavenworth and KDHE was made prior to the RCRA Permit in order to outline monitoring requirements at this site. No further remedial action is anticipated at the site.

The landfill is regulated under the Fort Leavenworth RCRA Permit and by KDHE Solid Waste Landfill Regulations. The landfill received a cover in 1993, but placed in the Permit by the EPA in the year 2000 over concerns about possible pesticide and herbicide contamination.

There are two areas which require funding:

1. Long term maintenance of this site. These funds pay for the long term maintenance at the site. It will repair areas of cover damage, plant new grass and remove weeds.
2. Long term monitoring is required to insure that possible contaminants are not leaking from it. The monitoring program will test water from two monitoring wells and from the run off basin which is located at the lower end of the landfill.

The testing for pesticides and herbicides in FY07 did not find any contaminants above screening levels. It is expected that in FY10 the site will be remedy in place per the RCRA permit. In closing the site, EPA noted that the testing requirement per the Consent Agreement between Fort Leavenworth and KDHE remains in effect and that future testing is still required to comply with the agreement.

Site ID: CC FTL-63

Site Name: DRMO Scrap Yard

STATUS

Regulatory Driver: RCRA C

Risk Score: 0B

Contaminants of Concern: Metals, Polycyclic Aromatic Hydrocarbons (PAH)

Media of Concern: Soil, Surface Water

Phases	Start	End
RFA.....	198301.....	198309
CS.....	199701.....	199712
RFI/CMS.....	199801.....	201309

RIP Date: N/A

RC Date: 201309

Closeout Date: 201309

SITE DESCRIPTION

The site was created in 1907 when a number of storage buildings were constructed at the site. These buildings may have stored bridging materials. The site eventually became the DRMO Scrap storage site. That function stopped in 1998 when DRMO left Fort Leavenworth.

The site has been investigated. The investigation found metals and semi-volatile organic compounds. Polynuclear Aromatic Hydrocarbons (PAHs) found in the drainage ditch are of concern.

This site is a scrap yard that was used to store metal scrap until about 1998 when the DRMO operation moved from Fort Leavenworth. The site is located to the northeast of the less than 90 day storage area.

The primary concern in this area was RCRA metals that were deposited on the site due to the scrap metal operation. A site investigation has confirmed that there is metal contamination of the soil as well as PAH's above the screening criteria in the drainage ditch that contains water located to the northeast of the site. The site is moving towards an industrial closure without remediation (Land Use Controls).

USACE Kansas City District risk assessor is currently reviewing the analytical data for ecological and human health to determine risk. Fort Leavenworth is still waiting on a regulatory NFA.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
CC FTL-12	Used Oil Tank Near Building 305	200508	Statement of Basis November 2006
CC FTL-13	Used Oil Tank UST Near Building 689	200506	Statement of Basis June 2005
CC FTL-23	Mineral Settling Lagoons	200812	Statement of Basis March 2008
CC FTL-68	Weed Control Area, City Airport Oper	200406	Statement of Basis June 2005

Past Phase Completion Milestones

1983

RFA (CC FTL-12 - Used Oil Tank Near Building 305, CC FTL-13 - Used Oil Tank UST Near Building 689, CC FTL-23 - Mineral Settling Lagoons, CC FTL-63 - DRMO Scrap Yard, CC FTL-68 - Weed Control Area, City Airport Oper)

1984

CS (CC FTL-13 - Used Oil Tank UST Near Building 689, CC FTL-23 - Mineral Settling Lagoons, CC FTL-68 - Weed Control Area, City Airport Oper)

1991

IRA (CC FTL-68 - Weed Control Area, City Airport Oper)

1992

CS (CC FTL-09 - Closed Active Sanitary Landfill)

RFA (CC FTL-09 - Closed Active Sanitary Landfill)

RFI/CMS (CC FTL-09 - Closed Active Sanitary Landfill)

1993

DES (CC FTL-09 - Closed Active Sanitary Landfill)

1994

CMI(C) (CC FTL-09 - Closed Active Sanitary Landfill)

1998

CS (CC FTL-63 - DRMO Scrap Yard)

2003

CS (CC FTL-12 - Used Oil Tank Near Building 305)

2004

RFI/CMS (CC FTL-12 - Used Oil Tank Near Building 305, CC FTL-68 - Weed Control Area, City Airport Oper)

2005

RFI/CMS (CC FTL-13 - Used Oil Tank UST Near Building 689)

DES (CC FTL-12 - Used Oil Tank Near Building 305)

CMI(C) (CC FTL-12 - Used Oil Tank Near Building 305)

2006

RFI/CMS (CC FTL-23 - Mineral Settling Lagoons)

2009

CMI(C) (CC FTL-23 - Mineral Settling Lagoons)

Projected Phase Completion Milestones

See attached schedule

FORT LEAVENWORTH CC Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
CC FTL-09	Closed Active Sanitary Landfill	LTM						
SITE ID	SITE NAME	PHASE	FY13	FY14	FY15	FY16	FY17	FY18+
CC FTL-63	DRMO Scrap Yard	RFI/CMS						

Community Involvement

Years ago, Fort Leavenworth personnel attempted to establish a Restoration Advisory Board. That effort resulted in less than a dozen people requesting information and only one participating in the meeting where we discussed the purpose of the boards. Public participation at public meetings involving environmental issues over the past few years has been sparsely attended. On Nov. 2, 2006, the USEPA held a public availability session for the proposed cleanup plan for seven environmental restoration sites (FTL-07, -10, -11, -12, -15, -20 and -60). On April 8, 2008, USEPA held another public availability session for the proposed cleanup plan for seven additional environmental restoration sites (FTL-08, -23, -24, -57, -69, -70 and -71). No one from the public attended these sessions. No significant comments are expected from the public review process. The lack of public interest during these public comment periods substantiates the decision by the stakeholder agencies not to pursue the establishment of a Restoration Advisory Board at Fort Leavenworth.

