FY2012 as of Sep 2011

FORT RILEY

Army Defense Environmental Restoration Program

Installation Action Plan



Table of Contents

Statement Of Purpose	
A	
Acronyms	••••••
Installation Information	
5-Year / Periodic Review Summary	
Land Use Control (LUC) Summary	
Cleanup Program Summary	
Installation Restoration Program	
IRP Summary	
IRP Contamination Assessment	
IRP Previous Studies	
Installation Restoration Program Site Descriptions	
FTRI-001 CUSTER HILL SANITARY LANDFILL	
FTRI-003 SOUTHWEST FUNSTON LANDFILL	
FTRI-009 OB/OD GROUND (RANGE 16)	
FTRI-009 OB/OD GROUND (RANGE 16) FTRI-019 FORMER FIRE TRAINING AREA FFTA-MAAF	
FTRI-027 DRY CLEANING FACILITIES AREA	•••••
FTRI-031 354 AREA SOLVENT DETECTIONS (354)	
FTRI-056 ABANDONED GASOLINE LINE	
FTRI-057 6200 AREA FUEL OIL LINE (ANCHOR)	
FTRI-074 WWI INCINERATOR, NW CAMP FUNSTON	
Installation Restoration Program Site Closeout (No Further Action) Sites Summary	
Installation Restoration Program Schedule	
Installation Restoration Program Milestones	
IRP Schedule Chart	
Military Munitions Response Program	*****
MMRP Summary	
MMRP Contamination Assessment	
MMRP Previous Studies	
Military Munitions Response Program Site Descriptions	
1	
FTRI-001-R-02 SHSAR Impact Slope	

Table of Contents

FTRI-003-R-01 Camp Forsyth Landfill Area 2 MRS	52
Military Munitions Response Program Site Closeout (No Further Action) Sites Summary	53
Military Munitions Response Program Schedule	54
Military Munitions Response Program Milestones MMRP Schedule Chart	54 55
Compliance Restoration	56
CR Summary	57
CR Contamination Assessment	58
CR Previous Studies	59
Compliance Restoration Site Descriptions	60
CC-FTRI-01 POL Tank Farm Site	61
CC-FTRI-09 Fuel Dispensing Stations	62
Compliance Restoration Site Closeout (No Further Action) Sites Summary	63
CR Schedule	64
Compliance Restoration Milestones	64
CR Schedule Chart	65

Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multiyear cleanup program for an installation. The plan identifies environmental cleanup requirements at each site or area of concern (AOC), and proposes a comprehensive, installation-wide approach, along with the costs and schedules associated with conducting investigations and taking the necessary remedial actions (RA).

In an effort to coordinate planning information between the restoration manager, the Installation Management Command (IMCOM)-West, the US Army Environmental Command (USAEC), Fort Riley (FTRI), the executing agencies, regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules, and tentative budgets for all major Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change.



Acronyms

A/I Active/Inactive

AEDB-CC Army Environmental Database - Compliance-related Cleanup

- AEDB-R A
 - R Army Environmental Database Restoration
 - AGL Abandoned Gasoline Line
 - AOC Area of Concern
 - AST Aboveground Storage Tank
 - BRAC Base Realignment and Closure
 - BTEX Benzene, Toluene, Ethylbenzene, and Xylene
 - CA Corrective Action
 - CAP Corrective Action Plan
 - CC Compliance-related Cleanup
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 - CFI NW Camp Funston WWI Incinerator
 - CHLF Custer Hill Sanitary Landfill
 - CMI(C) Corrective Measures Implementation (Construction)
 - COC Contaminant of Concern
 - CR Compliance Restoration
 - CS Confirmatory Sampling
 - CTT Closed, Transferred, Transferring
 - cu yd Cubic Yards
 - DCE Dichloroethylene
 - DCF Dry Cleaning Facility
 - DCFA Dry Cleaning Facilities Area
 - DD Decision Document
- DDESB Department of Defense Explosives Safety Board
- DERP Defense Environmental Restoration Program
- DES Design
- DPE Dual-Phase Extraction
- DPW Department of Public Works
- DS/GS Direct Support / General Support
- EE/CA Engineering Evaluation / Cost Analysis
- EOD Explosive Ordnance Disposal
- EPR Environmental Program Requirements
- ER,A Environmental Restoration, Army
- ESD Explanation of Significant Differences
- ESS Explosive Safety Submissions
- FFA Federal Facility Agreement
- FORSCOM US Army Forces Command
 - FRA Future Remedial Action
 - FS Feasibility Study
 - FTRI Fort Riley
 - FY Fiscal Year
 - GW Groundwater
 - HRR Historical Records Review
 - HRS Hazard Ranking System

Acronyms

IAP	Installation Action Plan
ID	Identification
IMCOM	Installation Management Command
INV	Investigation
· IR	Installation Restoration
IRA	Interim Remedial Action
IRP	Installation Restoration Program
ISC	Initial Site Characterization
· K	Thousand
KDHE	Kansas Department of Health and Envronment
KDWP	Kansas Department of Wildlife and Parks
kg	kilogram
KRBCA	Kansas Risk Based Corrective Action
KS	Kansas
LF	Landfill
LTM	Long-Term Management
LUC	Land Use Control
MAAF	Marshall Army Airfield
МС	Munitions Constituent
MCL	Maximum Contaminant Level
MEC	Munitions and Explosives of Concern
mg	milligram
mm	millimeter
MMRP	Military Munitions Response Program
MNA	Monitored Natural Attenuation
MOGAS	Motor Gasoline
MR	Munitions Response
MRA	Munitions Response Area
MRS	Munitions Response Site
	Not Applicable
NCDO	North Central District Office
• NFA	No Further Action
NPL	National Priorities List
O&M	Operations & Maintenance
OB	Open Burning
OB/OD	Open Burning/Open Detonation
OD	Open Detonation
ODUSD(I&E)	Office of Deputy Undersecretary of Defense (Installation and Environment)
OU	Operable Unit
PA	Preliminary Assessment
PCB	Polychlorinated Biphenyl
PCE	
POL	
. PP	Proposed Plan
	parts per hillion

ppb parts per billion

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Acronyms

PSF	Pesticide Storage Facility
RA	Remedial Action
RA(C)	Remdial Action (Construction)
RA(O)	Remedial Action (Operation)
RAB	Restoration Advisory Board
RACR	Remedial Action Completion Report
RAP	Remedial Action Plan
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RFA	RCRA Facility Assessment
RI	Remedial Investigation
RIP	Remedy-in-Place
ROD	Record of Decision
RSK	Risk-Based Standards for Kansas
SEFL	Southeast Funston Landfill
SFL	Southwest Funston Landfill
SHSAR	Sherman Heights Small Arms Range
SI	Site Inspection
SVE	Soil Vapor Extraction
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TCE	Trichloroethylene
TRC	Technical Review Committee
ug/L	micrograms per liter
UPRR	Union Pacific Railroad
USACE	US Army Corps of Engineers
USAEC	US Army Environmental Command
USEPA	US Environmental Protection Agency
UST	Underground Storage Tank
UU/UE	Unlimited Use / Unrestricted Exposure
UXO	Unexploded Ordnance
VOC	Volatile Organic Compound
WWI	World War 1
WWII	World War II

Installation Information

Installation Locale

Installation Size (Acreage): 100775 City: Junction City County: Clay, Geary, and Riley State: Kansas

Other Locale Information

FTRI is located west of Manhattan (population 38,000) on 100,775 acres of land in portions of Clay, Geary, and Riley Counties in northeast Kansas. Interstate 70, Junction City (population 20,000), and Ogden (population 1,600) bound the installation to the south. Milford Lake (16,020 acres) bounds part of the western side of the installation.

Installation Mission

The mission of FTRI, as an installation of excellence, is to:

- work in close partnership with local, regional, and state communities,
- provide trained and ready forces to meet joint force requirements across the full spectrum of current and future operations.
- transform and manage unit readiness as directed by the Army campaign plan,
- execute unit re-stationing as directed by US Army Forces Command (FORSCOM),
- execute garrison operations as directed by the IMCOM, and
- conduct homeland defense operations and support civil authorities.

Lead Organization

Lead Executing Agencies for Installation

US Army Corps of Engineers (USACE), Kansas City District

US Geological Survey

Regulator Participation

Federa	l
State	

US Environmental Protection Agency (USEPA), Region VII KDHE Bureau of Environmental Field Services - North Central District Office (NCDO) Kansas Department of Health and Environment (KDHE), Bureau of Environmental Remediation

National Priorities List (NPL) Status

A score of 33.8 was recorded on 01-AUG-90.

Date for RA(C) Completion:

201502

Date for NPL Deletion: TBD

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

RAB established 199709

Installation Information

Installation Program Summaries

IRP

Primary Contaminants of Concern: Metals, Perchlorate, Pesticides, Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

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

Primary Contaminants of Concern: Munitions and explosives of concern (MEC), Munitions constituents (MC)

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

CR

Primary Contaminants of Concern: Petroleum, Oil and Lubricants (POL)

Affected Media of Concern: Groundwater

5-Year / Periodic Review Summary

5-Year / Periodic Review Summary

Status	Start Date	End Date	End FY	
Complete	201110	201209	2012	
Complete	200201	200207	2002	
Complete	200701	200707	2007	

Last Completed 5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
Dry Cleaning Facilities Study Area	FTRI-027
Dry Cleaning Facilities Study Area	FTRI-027
Former Fire Training Area - MAAF	FTRI-019
Former Fire Training Area - MAAF	FTRI-019
RECORD OF DECISION - SW FUNSTON LANDFILL	FTRI-003
RECORD OF DECISION - SW FUNSTON LANDFILL	FTRI-003
RECORD OF DECISION-PESTICIDE STORAGE FAC	FTRI-030
RECORD OF DECISION-PESTICIDE STORAGE FAC	FTRI-030
The 354 Area Solvent Detections	FTRI-031
The 354 Area Solvent Detections	FTRI-031

Results The EPA, Region VII has provided comments that are being addressed.

Actions Finalize the document & obtain the signature of the Garrison Commander.

Plans Do another 5-Year Review in 2017.

Recommendations and Implementation Plans:

Fort Riley's FY12 5-Year Review deferred the protectiveness determination for the 354 Area Solvent Detections (OU005) pending the completion of a technical memorandum to evaluate the vapor intrusion pathway at building 367. This memorandum is due by September 30, 2013. The remedy is protective regarding the groundwater exposure pathways.

The remedies at the Southwest Funston Landfill (OU001) and the Dry Cleaning Facilities Area (OU003) are protective of human health and the environment.

The Pesticide Storage Facility (OU002) and the Former Fire Training Area - Marshall Army Air Field (OU004) received clean closure prior to the FY12 5-Year Review and were not reviewed.



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. 7

Land Use Control (LUC) Summary

LUC Title: Dry Cleaning Facilities

Site(s): FTRI-027

ROD/DD Title: Dry Cleaning Facilities Study Area

Location of LUC

The former Dry Cleaning Facilities Area (DCFA) is located in the southwest corner of the Main Post cantonment about 800 feet north of the Kansas River. The DCFA operated until 2002. The primary dry cleaning solvent was tetrachloroethylene (PCE). Land Use Restriction: Media specific restriction - prohibit use of groundwater for consumption or domestic purposes, Media specific restriction - restrict drinking water well installation

Types of Engineering Controls: None

Types of Institutional Controls: Dig Permits, Notations in Master Plan, Restrictions on Groundwater Withdrawal, Restrictions on land use

Date in Place: 200802

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Documentation Date: N/A

LUC Enforcement: 5 Year Reviews

Contaminants: VOC

Additional Information

N/A

LUC Title: Forsyth Ldfl 2 / Repub. R

Site(s): FTRI-038

ROD/DD Title: Forsyth Landfill Area 2 Decison Memo

Location of LUC

Along Republican River, southwest of Camp Forsyth cantonment area. It is only applicable to site FTRI-003-R-01 which is a Military Munitions Response Program (MMRP) site number. Site FTRI-038 CLOSED OUT BY REGULATORS IN 2007 Land Use Restriction: Landfill restriction - Restrict construction of buildings that may interfere with LF cap or cover system

Types of Engineering Controls: Signs

Types of Institutional Controls: Dig Permits, Notations in Master Plan

Date in Place: 200209

Modification Date: N/A

Date Terminated: 200708

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Documentation Date: N/A

LUC Enforcement: 5 Year Reviews

Contaminants: Unexploded Ordnance(UXO)

Additional Information

N/A

Land Use Control (LUC) Summary

LUC Title: SW Funston Ldfl Controls

Site(s): FTRI-003

ROD/DD Title: RECORD OF DECISION - SW FUNSTON LANDFILL

Location of LUC

Southwest Funston Landfill (Operable Unit 001) covers approximately 120 acres and is located in the southern portion of Fort Riley adjacent to the southwest corner of the Camp Funston cantonment area (Figure 1-1). It is bordered on the south by the Kansas River, on the north by Well House Road, on the west by a former meander bend in the Kansas River and on the east by Threemile Creek. The landfill lies entirely within the 100-year floodplain of the Kansas River.

Land Use Restriction: Landfill restriction - Prohibit activities that would impact the LF cap (or cover system) and drainage system, Landfill restriction - Prohibit excavation on LF cap or cover system, Landfill restriction - Prohibit installation of utility system lines through the site, Landfill restriction - Restrict access to the site, Landfill restriction - Restrict construction of buildings that may interfere with LF cap or cover system, Landfill restriction - Restrict plantings that interfere LF cap or cover system (roots that penetrate the cap or cover system), Landfill restriction - Restrict vehicular traffic, Media specific restriction - prohibit use of groundwater for consumption or domestic purposes, Media specific restriction - restrict drinking water well installation

Types of Engineering Controls: Fences, Signs

Types of Institutional Controls: Notations in Master Plan, Restrictions on Groundwater Withdrawal, Restrictions on land use

Date in Place: 199710

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Documentation Date: 200708

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: VOC

Additional Information

N/A

Cleanup Program Summary

Installation Historic Activity

FTRI's history is closely linked to the history of American westward expansion and development. As early as the 1840s, travelers along the Oregon and Santa Fe Trails began a massive migration across the high plains of Kansas, which created the need for a series of military installations to protect them as they traveled west.

In 1852 Major E.A. Ogden established a temporary camp called Camp Center, north of the Kansas River, near the junction of the Smoky Hill and Republican Rivers. In 1853, the US Congress authorized establishment of a permanent installation there and renamed the encampment FTRI, in honor of Major General Bennett C. Riley who led the first military escort along the Santa Fe Trail in 1829.

FTRI evolved from a frontier outpost to a military training installation in the first 60 years following its inception in 1853. In the beginning, industry was limited to a few shops (e.g., blacksmiths) and storehouses. Early sewers dumped directly into the rivers. Military operations were limited to small arms, horse-mounted cavalry, and horse-drawn artillery. Practice ranges were located near the barracks areas in the lowlands, and river bluffs were used as natural backstops for the ranges.

During World War I (WWI), there was a build-up of forces at FTRI. Camp Funston was established during WWI and, in approximately three months, 1,401 temporary buildings were erected there to house troops. Camp Whitside was also built-up for WWI. Military training activities became more complex and the infrastructure more elaborate. Motor pools and auto repair shops replaced stables and blacksmith shops. Marshall Army Air Field became operational in 1921. The installation areas were electrified, and wastewater treatment plants were constructed.

Prior to World War II (WWII) and through the 1940s, FTRI expanded its transportation and industrial activities. Many motor pools were established in Camp Funston, Camp Whitside, Camp Forsyth, and the Main Post. Underground storage tanks (UST) were installed, and a gasoline pipeline was run from the rail spur on the north side of the Kansas River to Marshall Army Air Field. The installation infrastructure included laundry and dry cleaning facilities, numerous vehicle repair shops, boiler plants, and an asphalt plant.

Through the early years of World War II (WWII), the installation included the last vestiges of horse-mounted troops, including an animal dip facility on the rail spur for animals brought onto the installation. In 1949, the horse-mounted Cavalry was dissolved.

The heavy weapons training was focused on the main impact area, which was acquired in 1942, but small arms ranges were still prevalent along the river bluffs, especially in the Camp Forsyth, Camp Whitside, and Camp Funston areas. During the period between WWII and Vietnam, many of the temporary facilities built for WWII, especially those in Camp Forsyth, Camp Funston, and Camp Whitside, became obsolete and surplus, so they were demolished.

In 1955 the First Infantry Division was assigned to FTRI. Troop barracks and tactical equipment shops were built on Custer Hill and integrated with troop support facilities for health and recreational services. Family housing also expanded. Small arms training shifted to the ranges around the impact area.

During the Vietnam Era, environmental concerns came to the forefront. The wastewater treatment plants and controlled landfills were put into use. The older industrial activities were frequently upgraded or centralized. Transportation and industrial facilities that had been abandoned were demolished. A systematic review and upgrade of facilities focusing on several environmental concerns proceeded, including USTs, polychlorinated biphenyl (PCB)-containing transformers, and asbestos-containing materials used in buildings. With the passage of stricter federal and state laws governing air and water pollution, protection of natural resources, waste management, and environmental regulation progressively focused on the management of industrial and military activities.

Army personnel are trained at FTRI. The installation's history does not include large-scale manufacturing activities. Rather, development of FTRI included ancillary activities to support overall installation operations, including print shops, photographic processing facilities, laboratories, furniture repair, dry cleaning, paint shops, sewage treatment plants, and numerous vehicle maintenance and wash facilities.

Hazardous materials used include:

- Ordnance (of which there is no evidence of release of toxic chemical agents but there are indications that depleted uranium spotting rounds for the Davy Crockett weapon system may have been expended);

- Chlorinated solvents associated with furniture repair, dry cleaning, and cleaning of printing equipment;
- Pesticides for clearing of brush, pest and termite control, and routine maintenance of facility grounds;

Cleanup Program Summary

Installation Historic Activity

- A variety of small quantities of chemicals associated with laboratories;
- Silver-bearing solutions from the photographic processing and x-ray facilities;
- PCB fluids in electrical equipment; and
- Large quantities of petroleum-based fuels and cleaners associated with vehicle use, maintenance, and repair.

In addition to the waste outlined above, throughout its operational life the installation has generated typical, nonhazardous municipal waste and construction debris.

Past activities at FTRI have environmentally impacted several areas of the installation, primarily as the result of spills and leaks, and from previously approved waste disposal and handling practices. Cleanup of FTRI began in 1990-1991 in response to the Army's Installation Restoration Program (IRP) and the federal facility agreement (FFA).

Major tenants at FTRI include the Kansas Army National Guard, the Army Reserve, and the Irwin Army Community Hospital. In 1990, the installation was placed on the NPL with a hazard ranking system (HRS) score of 33.8. An FFA was signed by the USEPA, Region VII, the KDHE, and the Army and became effective on Feb. 28, 1991. The FFA requires that the installation address all significant environmental releases under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Resource Conservation and Recovery Act (RCRA).

Installation Program Cleanup Progress

IRP	
Prior Year Progress:	-FTRI-001 CHLF: Conducted 5-year review groundwater (GW) sampling -FTRI-003 SFL: Completed O&M/LTM plan -FTRI-009 OB/OD: Initiated RI work plan -FTRI-019 FFTA-MAAF: Abandoned monitoring wells -FTRI-027 DCFA: Conducted two quarterly GW sampling events -FTRI-031 354: Conducted GW sampling -FTRI-056 AGL: Excavated soil and treated GW -FTRI-057 6200: Conducted Dual-Phase Extraction (DPE) system maintenance and GW monitoring -FTRI-074 CFI: Completed excavation of contaminated soil on terrace
Future Plan of Action:	 CFI: Conduct GW sampling for 2012 five-year review All other sites: FTRI-001 CHLF & FTRI-003 SFL: Repair landfill cover in 2013 FTRI-009 OB/OD: Complete remedial investigation (RI) FTRI-027 DCFA: Annual GW sampling FTRI-031 354: Abandon excess monitoring wells in 2012 FTRI-056 AGL: GW sampling FTRI-057 6200: DPE systems maintenance and GW monitoring followed by monitored natural attenuation (MNA FTRI-074 CFI: Complete RI to evaluate alluvial soil contamination
Prior Year Progress:	- FTRI-001-R-02 SHSAR Impact Slope: Completed RI fieldwork and Report - FTRI-003-R-01 Camp Forsyth Landfill Area 2 Munitions Response Site (MRS): Completed RI Work Plan and fieldwork
Future Plan of Action:	 FTRI-001-R-02 Sherman Heights Small Arms Range (SHSAR) Impact Slope: Follow-on phases will be conducted as required FTRI-003-R-01 Camp Forsyth Landfill Area 2 MRS: Complete RI Report and conduct follow-on phases as required
CR	
Prior Year Progress:	-CC-FTRI-01: Conducted GW sampling and semiannual free-product recovery by manual bailing -CC-FTRI-09 (Buildings 388 and 5320): Defined the extent of the GW plume/free product and continued GW monitoring and bailing at both sites -CC-FTRI-10 (Buildings 1460 and 2597): Did soil and GW sampling; and obtained site closures

Cleanup Program Summary

Future Plan of Action: -CC-FTRI-01: Annual GW sampling and semi-annual free-product recovery by manual bailing -CC-FTRI-09 Buildings 388 and 5320: Conduct GW sampling in 2012

FORT RILEY

Army Defense Environmental Restoration Program Installation Restoration Program

IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 72/63

Installat	ion Site Types with Future and/or Underway Phases
1	Explosive Ordnance Disposal Area
	(FTRI-009)
1	Fire/Crash Training Area
	(FTRI-019)
1	Incinerator
	(FTRI-074)
2	Landfill
	(FTRI-001, FTRI-003)
1	POL (Petroleum/Lubricants) Lines
	(FTRI-057)
1	Soil Contamination After Tank Removal
	(FTRI-056)
2	Spill Site Area

(FTRI-027, FTRI-031)

Most Widespread Contaminants of Concern

Metals, Perchlorate, Pesticides, Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

Media of Concern

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Groundwater, Sediment, Soil, Surface Water

Completed	Remedial Actions (Interim Reme	edial Actic	ons/ Final Remedial Actions (IRA/FRA))	
Site ID	Site Name	Action	Remedy	FY
FTRI-061	FORMER GAS SERVICE STATION BLDG 354	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1990
FTRI-008	PCB STORAGE CONEX (BUILDING 348)	FRA	IN-SITU SOIL TREATMENT	1991
FTRI-059	REMOVE USTS	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1991
FTRI-063	FMR BLDG 1044 DISPENSING STATION		WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1991
FTRI-066	FMR BLDG 1245 DISPENSING STATION	BIRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1991
FTRI-067	FMR BLDG 1539 DISPENSING	GIRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1991
FTRI-068	FMR BLDG 1637 DISPENSING STATION		WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1991
FTRI-069	FMR BLDG 1890 DISPENSING STATION	BIRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1991
FTRI-010	PESTICIDE (2-4D) UST AT CAMP FUNSTON	FRA	WASTE REMOVAL - SOILS	1992
FTRI-013	ABANDONED VOC TANKS NORTH OF IACH	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1992
FTRI-049	MERCURY CONTAMINATION AREAS	FRA	REMOVAL	1992
FTRI-054	CUSTER HILL PX USTS BLDG 5320	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1992
FTRI-061	FORMER GAS SERVICE STATION BLDG 354	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1992
FTRI-003	SOUTHWEST FUNSTON LANDFILL	IRA	OTHER	1994
FTRI-028	FMR FIRE TRAINING AREA CAMP FUNSTON	FRA	WASTE REMOVAL - SOILS	1994

IRP Summary

Completed Site ID	Remedial Actions (Interim Reme Site Name	dial Actio Action	ns/ Final Remedial Actions (IRA/FRA)) Remedy	FY
FTRI-030	PESTICIDE STORAGE FACILITY (MIXING)	IRA	WASTE REMOVAL - SOILS	1994
FTRI-035	NON-IMPACT AREA SMALL ARMS RANGES	IRA	WASTE REMOVAL - SOILS	1994
FTRI-060	MAINPOST PX GAS STATION	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1994
FTRI-001	CUSTER HILL SANITARY	FRA	CAPPING	1995
FTRI-027	DRY CLEANING FACILITIES	IRA	SOIL VAPOR TREATMENT	1995
FTRI-064	FMR BLDG 1090 DISPENSING STATION	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1995
FTRI-065	FMR BLDG 1190 DISPENSING STATION	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1995
FTRI-073	BLDG 8360 FUEL OIL UST	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1995
FTRI-003	SOUTHWEST FUNSTON	IRA	CAPPING	1996
FTRI-019	FORMER FIRE TRAINING AREA FFTA-MAAF	IRA	SOIL VAPOR TREATMENT	1996
FTRI-019	FORMER FIRE TRAINING AREA FFTA-MAAF	IRA	BIOREMEDIATION	1996
FTRI-070	FMR BLDG 2341 DISPENSING STATION	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1996
FTRI-003	SOUTHWEST FUNSTON	IRA	FENCE OR OTHER SITE ACCESS CONTROL MEASURES	1997
FTRI-003	SOUTHWEST FUNSTON	FRA	CAPPING	1997
FTRI-057	6200 AREA FUEL OIL LINE (ANCHOR)	IRA	WASTE REMOVAL - SOILS	1997
FTRI-062	TMP GAS STATION BLDG 388	IRA	FREE PRODUCT RECOVERY	1997
FTRI-063	FMR BLDG 1044 DISPENSING STATION		FREE PRODUCT RECOVERY	1997
FTRI-029	OLD INCINERATOR SITE SE- CAMP FUNSTON	IRA	WASTE REMOVAL - SOILS	2000
FTRI-036	SOUTHEAST FUNSTON LANDFILL (ANCHOR)	IRA	CAPPING	2001
FTRI-038	FORSYTH LANDFILL(S)	IRA	OTHER	2001
FTRI-019	FORMER FIRE TRAINING AREA FFTA-MAAF	IRA	ALTERNATE WATER SUPPLY/WATER SUPPLY TREATMENT	2003
FTRI-019	FORMER FIRE TRAINING AREA FFTA-MAAF	FRA	NATURAL ATTENUATION	2005
FTRI-057	6200 AREA FUEL OIL LINE (ANCHOR)	IRA	FREE PRODUCT RECOVERY	2005
FTRI-031	· /	FRA	NATURAL ATTENUATION	2007
FTRI-027		FRA	NATURAL ATTENUATION	2008
FTRI-056		IRA	BIOREMEDITATION - IN SITU	2009
FTRI-057		FRA	DUAL-PHASE EXTRACTION	2010

IRP Summary

Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))					
Site ID	Site Name	Action	Remedy	FY	
FTRI-056	ABANDONED GASOLINE	FRA	REMOVAL	201	
FTRI-056	ABANDONED GASOLINE LINE	FRA	BIOREMEDIATION - IN SITU GROUNDWATER	201	
FTRI-074	WWI INCINERATOR, NW CAMP FUNSTON	IRA	REMOVAL	201	
Duration of IR	RP			•	
Date of IRP In	ception: 198312				
Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201502/202503					

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

IRPContamination Assessment

Contamination Assessment Overview

The Army initially began environmental restoration-related investigations as a result of the 1982 closure activities of the SFL where monitoring indicated GW contamination.

The installation was evaluated for placement on the NPL with an HRS score of 33.8. The placement on the NPL was announced in 1990. An FFA was signed in August 1990 to address the CERCLA and RCRA mandates. Five IRP sites have been designated as OUs:

- FTRI-003 SFL,
- FTRI-030 Pesticide Storage Facility,
- FTRI-027 DCFA,
- FTRI-019 Former Fire Training Area-Marshall Army Airfield (MAAF), and
- FTRI-031 354 Area Solvent Detections.

These sites have been identified as sites with contamination due to past operational activities which resulted in spills and releases to the environment. The primary contaminants of concern (COCs) are chlorinated solvents and pesticides.

The SFL was operated from the mid-1950s through 1981. Post-closure monitoring and remedial investigation/feasibility study (RI/FS) sampling efforts detected contaminants such as chlorinated solvents, petroleum hydrocarbons, and metals in the GW at low levels. On Aug. 6, 1997, the ROD was signed, and institutional controls and LTM have been implemented. The remedy has achieved the required reduction in the risk by meeting the USEPA maximum contaminant levels (MCLs). A RACR was signed by the USEPA in February 2010. Ongoing LTM is required to document that contaminant levels remain below the MCLs. The USEPA approved an explanation of significant differences (ESD) and site closure for the Pesticide Storage Facility in 2010. The site is now unlimited use/unrestricted exposure (UU/UE) and no further action (NFA) is required.



The DCFA has two sites with soil and GW contamination from dry cleaning operations using PCE. Dry cleaning occurred at Buildings 180/181 (demolished in 2000) and Building 183 (demolished in 2002). There is minimal contamination at the Building 183 location. The eastern GW plume originates at the former site of Building 180/181 with two hot spots: one east of the building centered on a sewer manhole and one at the southwest corner of the building. A utility trench appears to be the conduit for transporting PCE to the west, with the western GW plume centered on well DCF02-42. Both plumes move off the terrace into the alluvium and are not further degrading Kansas River water quality. The ROD has been signed and a remedial design (RD)/remedial action plan (RAP) has been approved. The alternative of MNA with institutional controls is being implemented. The ROD requires conducting annual GW sampling in FY08, FY09, and FY10. By FY09, the GW bioremediation at the eastern plume showed signs of stalling out. In 2010 this GW was retreated and four quarterly sampling events were completed in 2011.

The USEPA approved a RACR and site closure for the Former Fire Training Area-MAAF in 2010. The site is now UU/UE and NFA is required.

The 354 Area Solvent Detections site has contamination that was discovered during investigations of a POL/UST site. There are VOC that include PCE, trichloroethylene (TCE), dichloroethylene (DCE) and benzene. The ROD was signed in 2006 and the RD/RAP was approved. The site is in MNA with institutional control. No contaminants were above the MCLs in the alluvial aquifer of the Kansas River for the three years post-ROD. Contamination remains in place as GW is above the MCLs in the terrace aquifer.

Cleanup Exit Strategy

The principal objectives of the FTRI IRP are to protect human health and the environment while working toward the ultimate goal of delisting the installation from the NPL. There is the potential that some of the sites will not reach UU/UE but they will be monitored and under the installation's control. The installation's real property master plan will preclude their utilization for unacceptable land uses. In order to accomplish these objectives, the following efforts have been determined to be essential and must be achieved.

- Conduct LTM for the OUs as prescribed in the proposed plans (PPs), documented by the RODs, and determined to be required by the analysis of the data from the sampling events.

- Develop RACRs for those OUs that have attained the RA objectives defined in the PPs and RODs. FTRI will then request partial deletion of those sites.

- Perform the five-year review requirements as required under the CERCLA for all sites that have hazardous substances left in place that do not allow for unlimited use and unrestricted exposure. Site closure will be requested when a site attains UU/UE.

IRPContamination Assessment

- Conduct remediation efforts to include operations of the dual-phase extraction (DPE) systems to address fuels-related soil and GW contamination at FTRI-063 (1044), -066 (1245), and -068 POL (1637) sites. These three sites are located in Camp Funston, and are covered under FTRI-057 (anchor site). Once the soil and GW contaminants have reached concentrations that ensure no restrictions to a site's use, closeout approval will be sought.

- FTRI-009 Open burn/open detonation (OB/OD) has TCE contamination. The site does not have identifiable risks to human health or the environment at this time but requires further monitoring and sampling for one more year. A decision will be required on the disposition of the site after the analysis of the existing data from the monitoring program. This site will remain active for training and emergency disposal of unexploded ordnance (UXO) only, per a letter from the KDHE.

- FTRI-056 Abandoned Gas Line has undergone in situ treatment for fuels-related soil and GW contamination. Post- Treatment monitoring determined that additional remediation is required. Excavation of the contaminated soil, landfarming, and treatment of GW will be performed in 2011. Once the soil and GW contaminants have reached concentrations that ensure no restrictions on the site's use, closeout approval will be sought.

-FTRI-074 NW Camp Funston WWI Incinerator has lead and arsenic soil contamination. In 2012 the contaminated slope and alluvial soil will be excavated and disposed as special waste.

- Develop the final RACR to begin the procedures for requesting delisting of the installation from the NPL.

- Well abandonment will occur at each site when GW monitoring is completed.

	Title	Author	Date
1993			
	Remedial Investigation for Remedial	Law Environmental	DEC-1993
	Investigation/Feasibility Study Pesticide Storage Facility		
994			
	Remedial Investigation Report for Southwest Funston	Law Environmental	APR-1994
	Feasibility Study Report for Remedial	Law Environmental	APR-1994
	Investigation/Feasibility Study Southwest Funston Landfill	-	
	Proposed Plan Southwest Funston Landfill	Fort Riley	NOV-1994
1995			
	Remedial Investigation Addendum and Feasibility Study	Law Environmental	MAY-1995
	Report for Remedial Investigation/Feasibility Study		
	Pesticide Storage Facility Record of Decision Southwest Funston Landfill	Fort Bilou	
		Fort Riley	NOV-1995
1997	· · · · · · · · · · · · · · · · · · ·		P
	Proposed Plan Pesticide Storage Facility	Fort Riley.	AUG-1997
	Remedial Investigation Addenda Pesticide Storage Facility	Law Environmental	AUG-1997
	Record of Decision Pesticide Storage Facility	Fort Riley	SEP-1997
			021-1997
2001			
	Remedial Investigation Report for Former Fire Training	Burns & McDonnell	MAR-2001
	Area Marshall Army Airfield		
2002			
	Five-Year Review Report	DPW Environmental Fort	AUG-2002
2002	· · · · · · · · · · · · · · · · · · ·	Riley, KS	
2003			
	Site-Specific Sampling and Analysis Plan Long Term	Environmental Chemical	JAN-2003
	Monitoring Fort Riley Southwest Funston Landfill Installation-Wide Site Investigation Derived Waste	Corporation	
	Management Plan for Environmental Investigations at	Burns & McDonnell	APR-2003
	Fort Riley, Kansas		
	Feasibility Study FFTA-MAAF	Burns & McDonnell	SEP-2003
2004			
	Installation-Wide Sampling and Analysis Plan for	Burns & McDonnell	FEB-2004
	Environmental Investigations at Fort Riley, Kansas Remedial Investigation Addendum for the Dry Cleaning	Burns & McDonnell	
	Facilities Area		APR-2004
	Draft Final Proposed Plan FFTA-MAAF	Burns & McDonnell	MAY-2004
		· · · ·	
	Abandoned Gas Line, Site Investigation Report AGL	McKinzie	SEP-2004
	Technical Memorandum for Open Burning/Open	Burns & McDonnell	OCT-2004
	Detonation Ground Range 16 at Fort Riley, Kansas		001-2004
	354 Area Solvent Detection Site, Feasibility Study	Burns & McDonnell	DEC-2004
	Report 354		
2005		· · · · · · · · · · · · · · · · · · ·	
	KRBCA Checklists for POL/UST Sites 1044, 1245, &	Burns & McDonnell	FEB-2005

Title	Author	Date
Feasibility Study Addendum for the Dry Cleaning Facilities Study Area	Burns & McDonnell	MAR-2005
Site-Specific Field Sampling Plan for Groundwater, Spring, and Seep Sampling With Addendum - Spring 2005 for Open Burning/Open Detonation Ground	Burns & McDonnell	MAY-2005
(Range 16) 354 Area Solvent Detection Site, Soil-Gas Investigation Report 354 Area Solvent Detection	Burns & McDonnell	MAY-2005
354 Area Solvent Detection Site, Proposed Plan 354 Area Solvent Detection	Burns & McDonnell	MAY-2005
Pilot Study Report Pilot Study for Soil Remediation 354 Area Solvent Detections	Burns & McDonnell	JUN-2005
Site Investigation Work Plans for the Petroleum, Oil, and Lubricant Sites 1044, 1245, & 1637 at Main Post Fort Riley, Kansas	Burns & McDonnell	JUN-2005
Record of Decision Former Fire Training Area - Marshall Army Airfield	Burns & McDonnell	JUL-2005
Abandoned Gas Line, Engineering Evaluation/Cost Analysis	McKinzie	AUG-2005
Community Involvement Plan Fort Riley Superfund Site Fort Riley, Kansas	DPW Environmental Fort Riley, KS	AUG-2005
Action Memorandum Non-Time Critical Removal Action Abandoned Gas Line/Terminus	McKinzie	DEC-2005
Remedial Design/Remedial Action Plan Former Fire	Burns & McDonnell	
Training Area - Marshall Army Airfield		JAN-2006
Former Fire Training Area-Marshall Army Airfield, Draft Final Remedial Design/Remedial Action Plan	Burns & McDonnell	JAN-2006
Work Plan Expanded Site Investigation (Multiple Sites) at Fort Riley, Kansas	Burns & McDonnell	MAY-2006
Work Plan Removal Action AGL Terminus Area Marshall Army Airfield	McKinzie	JUN-2006
Record of Decision 354 Area Solvent Detections	Burns & McDonnell	JUN-2006
Work Plan Removal Action AGL Terminus Area Marshall Army Airfield Fort Riley Kansas	McKinzie	JUN-2006
Site Specific Sampling Plans for Groundwater Monitoring Activities Building 354	EA Engineering	AUG-2006
Site Specific Sampling Plans for Groundwater Monitoring Activities Dry Cleaning Facility Area Site Specific Sampling Plans for Groundwater	EA Engineering	AUG-2006
Nonitoring Activities Former Fire Training Area- Narshall Airfield	EA Engineering	AUG-2006
Quality Control Summary Report June 2006 Sampling Event Pesticide Storage Facility	Corps of Engineers - Kansas City District	AUG-2006
Nork Plan Pilot Study for Soil and Groundwater Remediation DCF Study Area	Burns & McDonnell	SEP-2006
Quality Control Summary Reports Summer 2006 Sampling Events for the Expanded Site Investigation Multi-Sites) at Fort Riley, Kansas	Burns & McDonnell	SEP-2006
2007 Feasibility Study Addendum for the Dry Cleaning Facilities Study Area	Burns & McDonnell	OC⊤-2006
Agnetometer Anomaly Investigation Work Plan for the Petroleum, Oil, and Lubricant Sites 1044, 1245, and	Burns & McDonnell	NOV-2006

Final without Signatures FORT RILEY Installation Action Plan - 20

2006

Title		Author	Date
	Remedial Design/Remedial Action Plan 354	Burns & McDonnell	MAR-2007
	nt Detections		
	ter Anomaly Investigation Report for the	Burns & McDonnell	MAR-2007
	Oil, and Lubricant Sites 1044, 1245, and		
	mp Funston Fort Riley, Kansas		
	trol Summary Report for April 2007	EA Engineering	MAY-2007
	er Sampling Event 354 Site trol Summary Report March 2007 Sampling	EA Engineering	
	er Fire Training Area - Marshall Army	EA Engineering	MAY-2007
Quality Con Event South	trol Summary Report March 2007 Sampling west Funston Landfill	Environmental Chemical Corporation	MAY-2007
Petroleum,	endum Investigation Work Plan for the Oil, and Lubricant Sites 1044, 1245, and np Funston Fort Riley, Kansas	Burns & McDonnell	MAY-2007
Quality Con Groundwate Facilities Ar	trol Summary Report for the April 2007 or Sampling Event at the Dry Cleaning ea	EA Engineering	JUN-2007
2007 Annua Site	I Sampling Report 354 Solvent Detections	EA Engineering	JUL-2007
Area	I Sampling Report Dry Cleaning Facilities	EA Engineering	JUL-2007
2007 Annua	I Sampling Report FFTA-MAAF	EA Engineering	JUL-2007
	ty Master Plan Digest (Institutional Controls)	Black & Veatch	AUG-2007
Landfill	Monitoring Report 2007 Southwest Funston	Environmental Chemical Corporation	SEP-2007
Second Five	e-Year Review Report Fort Riley, Kansas	Corps of Engineers - Kansas City District	SEP-2007
for the Petro and 1637 Pi	trol Summary Report Air Site Investigation bleum , Oil, and Lubricant Sites 1044, 1245, lot Study Camp Funston Fort Riley, Kansas	Burns & McDonnell	SEP-2007
Groundwate Burning/Ope	trol Summary Report August 2007 T Sampling Event at the Open En Detonation (Range 16)	Burns & McDonnell	OCT-2007
	an for the Dry Cleaning Facilities Area	Burns & McDonnell	OCT-2007
2007 Groun	trol Summary Report for the September dwater Sampling Event at the Dry Cleaning ea (Pilot Study)	Burns & McDonnell	OCT-2007
andfill	Inspection Report Southwest Funston	Corps of Engineers - Kansas City District	OCT-2007
t Fort Riley		Burns & McDonnell	OCT-2007
he POL Site	rol Summary Report Air Sample Data for es 1044, 1245, and 1637 Pilot Study Camp t Riley, Kansas	Burns & McDonnell	NOV-2007
Pilot Study F	Report for the Dry Cleaning Facilities Area	Burns & McDonnell	JAN-2008
Record of D	ecision Dry Cleaning Facilities Area	Burns & McDonnell	JAN-2008

I not olday Report for the bry cleaning Pacifiles Area	Burns & McDonnell	JAIN-2008
Record of Decision Dry Cleaning Facilities Area	Burns & McDonnell	JAN-2008
Site Specific Plans for Groundwater Monitoring Activities Southwest Funston Landfill Fort Riley, Kansas	СТІ	MAR-2008
Quality Control Summary Report for February 2008	EA Engineering	APR-2008

Final without Signatures FORT RILEY Installation Action Plan - 21

2007

Date

Author

Sampling Event Former Fire Training Area - Marshall Army Airfield Fort Riley, Kansas Quality Control Summary Report for March 2008 EA Engineering MAY-2008 Sampling Event 354 Area Solvent Detections Site Fort Riley, Kansas Quality Control Summary Report for Groundwater CTI MAY-2008 Monitoring Activities Southwest Funston Landfill Fort Riley, Kansas Draft Final Work Plan Addendum Expanded Site **Burns & McDonnell** MAY-2008 Investigation (Multiple Sites) at Fort Riley, Kansas /Malcolm Pirnie Quality Control Summary Report for April 2008 EA Engineering JUN-2008 Sampling Event at the Dry Cleaning Facilities Area Fort Riley, Kansas Engineering Design Report for the Petroleum, Oil, and Burns & McDonnell/ECC JUN-2008 Lubricant Sites 1044, 1245, and 1637 at Camp Funston Volumes I & 2 Fort Riley, Kansas 2008 Annual Sampling Report Former Fire Training EA Engineering JUN-2008 Area - Marshall Army Airfield Fort Riley, Kansas Remedial Design/Remedial Action Plan Dry Cleaning Burns & McDonnell JUN-2008 Facilities Area (Operable Unit 003) at Main Post Fort Riley, Kansas Removal Action Final Report - Volumes I & 2 AGL McKinzie JUL-2008 Terminus Area Marshall Army Air Field Fort Riley. Kansas Final 2008 Annual Groundwater Sampling Report Dry JUL-2008 EA Engineering Cleaning Facilities Area Fort Riley, Kansas Long Term Monitoring Report Southwest Funston CTI JUL-2008 Landfill Fort Riley, Kansas 2008 Quality Control Summary Report July 2008 Sampling **Environmental Chemical** AUG-2008 Event Custer Hill Landfill Fort Riley, Kansas Corporation Quality Control Summary Report July 2008 Burns & McDonnell SEP-2008 Groundwater Sampling Event at the Open /Malcolm Pirnie Burning/Open Detonation (Range 16) at Fort Riley, Kansas Quality Control Summary Report Expanded Site Burns & McDonnell SEP-2008 Investigation (Multiple Sites) at Fort Riley, Kansas /Malcolm Pirnie 2008 Maintenance and Repair Report and Annual Corps of Engineers -OCT-2008 Inspection Report Southwest Funston Landfill Operable Kansas City District Unit 001 Fort Riley, Kansas Draft Final Report Addendum Expanded Site Burns & McDonnell **DEC-2008** Investigation (Multiple Sites) at Fort Riley, Kansas /Malcolm Pirnie Draft Final Building 1693 Report Expanded Site **Burns & McDonnell DEC-2008** Investigation (Multiple Sites) at Fort Riley, Kansas /Malcolm Pirnie

Quality Control Summary Report for February 2009	EA Engineering	APR-2009
Sampling Event Former Fire Training Area - Marshall		
Army Airfield Fort Riley, Kansas		
Quality Control Summary Report for March 2009	EA Engineering	APR-2009
Sampling Event 354 Area Solvent Detections Site Fort		
Riley, Kansas		
Quality Control Plan Final POL/UST Contaminated	Conti/CH2MHill	MAY-2009
(Prior to 1984) Sites Remediation Services at Fort Riley,		
Kansas (1044, 1245, 1637)		
Project Management Plan Final POL/UST	Conti/CH2MHill	MAY-2009
Contaminated (Prior to 1984) Sites Remediation		

Final without Signatures FORT RILEY Installation Action Plan -22

2008

Title



Author

Date

Quality Control Summary Report for April 2009	EA Engineering	MAY-2009
Sampling Event at the Dry Cleaning Facilities Area Fort Riley, Kansas		WAT-2009
Quality Control Summary Report for Groundwater Monitoring Activities Southwest Funston Landfill Fort Riley, Kansas	СТІ	JUN-2009
Quality Control Summary Report for Groundwater Monitoring Activities Abandoned Gasoline Site Fort Riley, Kansas	СТІ	JUN-2009
2009 Annual Sampling Report Former Fire Training Area - Marshall Army Airfield Fort Riley, Kansas	EA Engineering	JUN-2009
2009 Annual Sampling Report 354 Solvent Detections Site Fort Riley, Kansas	EA Engineering	JUN-2009
2009 Maintenance and Repair Report and Annual Inspection Report Southwest Funston Landfill Fort Riley, Kansas	Corps of Engineers - Kansas City District	JUN-2009
Final 2009 Annual Groundwater Sampling Report Dry Cleaning Facilities Area Fort Riley, Kansas	EA Engineering	JUL-2009
Quality Control Summary Report 2009 Groundwater Resampling Event Southwest Funston Landfill Fort Riley, Kansas	СТІ	AUG-2009
Quality Control Summary Report for June 2009 Supplemental Sampling Event Former Fire Training Area - Marshall Army Airfield Fort Riley, Kansas	EA Engineering	AUG-2009
Design Implementation Work Plan for Petroleum, Oil, and Lubricant Sites 1044, 1245, and 1637 Fort Riley, Kansas	Conti/CH2MHill	SEP-2009
Quality Control Summary Report August 2009 Groundwater Sampling Event at the Open Burning/Open Detonation (Range 16) at Fort Riley, Kansas	Burns & McDonnell /Malcolm Pirnie	NOV-2009
Quality Control Summary Report for September 2009 Supplemental Sampling Event Former Fire Training Area - Marshall Army Airfield Fort Riley, Kansas	EA Engineering	NOV-2009
ong Term Monitoring Report Southwest Funston andfill Fort Riley, Kansas 2009	СТІ	NOV-2009
Draft Final Remedial Action Completion Report Southwest Funston Landfill Site, OU001 Fort Riley, Kansas December 2009	DPW Environmental Fort Riley, KS	DEC-2009

Technical Memorandum Soil and Groundwater	СТІ	APR-2010
Investigation Abandoned Gas Line (AGL) Site Fort		
Riley, Kansas		
Explanation of Significant Difference Pesticide Storage	DPW Environmental Fort	APR-2010
Facility Fort Riley, Kansas	Riley, KS	
Quality Control Summary Report Soil and Groundwater	CTI	MAY-2010
Investigation Abandoned Gas Line Site (AGL) Fort		,
Riley, Kansas		
Operations and Maintenance Manual Remediation of	Conti/CH2MHill	MAY-2010
Petroleum, Oil, and Lubricant Sites 1044, 1245, and		
1637 Fort Riley, Kansas		
2010 Maintenance and Repair Report and Annual	Corps of Engineers -	JUN-2010
Inspection Report Southwest Funston Landfill Fort	Kansas City District	

Final without Signatures FORT RILEY Installation Action Plan - 23

2009

Title



Title

2010

Author

Date

I	·
СТІ	JUL-2010
Conti/CH2MHill	JUL-2010
EA Engineering	AUG-2010
Burns & McDonnell/Louis	AUG-2010
Berger	
Burns & McDonnell	SEP-2010
/Malcolm Pirnie	
EA Engineering	OCT-2010
EA Engineering	NOV-2010
СТІ	DEC-2010
l e a	
	Conti/CH2MHill EA Engineering Burns & McDonnell/Louis Berger Burns & McDonnell /Malcolm Pirnie EA Engineering EA Engineering

FORT RILEY

Installation Restoration Program

Site Descriptions

Site ID: FTRI-001 Site Name: CUSTER HILL SANITARY LANDFILL



Regulatory Driver:

Contaminants of Concern: Metals

Media of Concern: Groundwater

Phases	Start	End
	198706	
SI	198706	198909
RI/FS	198909	199307
RD	199308	199311
RA(C)	199312	199502
RA(0)	199503	202503
RIP Date:	199503	

RC Date: 202503

SITE DESCRIPTION

CERCLA

The Custer Hill Sanitary Landfill operated from 1981 to 1994. The KDHE issued a consent order in 1996 to provide for postclosure care to include landfill cover maintenance and GW monitoring for 30 years. The Post-Closure Monitoring Plan was revised in January 2006. Site progress was tracked under the environmental program requirements (EPR) process from October 1993 to March 2005 and by CC-FTRI-08 from April 2005 to September 2009. The site has been shifted from Army Environmental Database-Compliance-related Cleanup (AEDB-CC) to the Compliance Restoration (CR) program.

Arsenic is currently detected above regulatory GW levels in two wells. No completed pathways or ecological impacts are known. GW is not a drinking water resource. Latest cover repair was conducted in 2008.

Five-year GW sampling was conducted in 2010. A new detect of arsenic above MCLs in CH91-7 triggered annual sampling. Annual sampling will be limited to four wells for arsenic only. Sampling will continue until modification of the Post Closure Monitoring plan is accepted by the KDHE.

Invasive weed control, spot repairs and reseeding are conducted annually. Prescribed burns or mowing are conducted annually to provide for cover inspection and to enhance the native grass cover.

CLEANUP/EXIT STRATEGY

The Post-Closure Monitoring Plan requires site-wide GW sampling in 2015, 2020, and 2025, otherwise, limited annual GW sampling must be conducted.

Landfill cover repair is scheduled for 2013, 2018, and 2023.

Well abandonment will occur when all GW monitoring is completed.

The regulatory required post-closure monitoring ends in 2025.

Site ID: FTRI-003 Site Name: SOUTHWEST FUNSTON LANDFILL



Regulatory Driver: CERCLA RRSE: MEDIUM Contaminants of Concern: Volatiles (VOC) Media of Concern: Groundwater

Phases	Start	End
PA	198312	198412
SI	198706	198909
RI/FS	199101	199603
RD	199510	199603
IRA	199312	199708
RA(C)	199601	199709
	199710	
LTM	201003:	204003

RIP Date: 199710

RC Date: 201002

SITE DESCRIPTION

The SFL is a closed municipal landfill of approximately 120 acres located in the southern portion of FTRI. The landfill operated from the mid-1950s until 1981. The landfill closure was approved by the KDHE in a letter dated Oct. 25, 1983.

In 1993 an Engineering Evaluation/Cost Analysis (EE/CA) was performed. The proposed response action was executed between 1994 and 1997 in three construction projects to address the immediate risks at the landfill. Access controls were implemented; river-bank stabilization was performed; and the native soil cover was repaired. Post-closure activities were required under the SFL ROD that was signed in 1997. These activities include maintaining the access controls, repairing the river-bank stabilization structure and landfill cover, GW monitoring, and a contingency for future active remediation.

GW monitoring results since 1997 provide clear evidence of a decreasing trend in the COCs. In 2006, COCs were not present at concentrations above MCLs. From 2007 to 2009, the data have shown a continued presence of vinyl chloride in the GW in the central portion of the landfill near or below the MCL. An inspection of the landfill cover, river-bank stabilization, and signage is performed annually. The most recent cover repair was conducted in 2009. Prescribed burning and mowing are conducted annually. The inspection in 2010 identified the areas requiring future cover repairs.

The five-year review reports in 2002 and 2007 did not reveal any threats to human health and the environment.

The RACR was signed by the USEPA in February 2010. The landfill was determined to be functionally stable and to have reached the "site completion" milestone under CERCLA. The site is now eligible for deletion from the NPL.

An operation and maintenance/long-term management (O&M/LTM) plan to implement the LTM of the site activities presented in the RACR was completed in April 2011.

CLEANUP/EXIT STRATEGY

Annual inspections of the bank stabilization structure and landfill cover will be conducted.

Landfill cover/bank stabilization repair is planned for 2013.

GW sampling and five-year reviews are planned for 2012 and 2017, and will be the basis for future decisions.

Well abandonment will occur when all GW monitoring is completed.

Site ID: FTRI-009 Site Name: OB/OD GROUND (RANGE 16)

STATUS

Regulatory Driver: CERCLA

RRSE: LOW

Contaminants of Concern: Metals, Perchlorate, Volatiles (VOC)

Media of Concern: Groundwater, Soil, Surface Water

Phases	Start	End
PA	198312	198412
	199111	
RD	201407	201407
RA(C)	201408	201408
RA(O)	201408	202408
LTM	202409	202609
RIP Date:	201408	
RC Date:	202408	

SITE DESCRIPTION

The OB/OD Ground (Range 16) is used for emergency ordnance disposal and training (no public access is permitted). Historical practices included the use of chlorinated solvents in an open burn area but the practice was discontinued in the early-1980s. In 1993, TCE was detected in the GW.

Perchlorate was found in 2004. The 2008 GW sampling event had perchlorate levels at 7.0 micrograms per liter (ug/L) or less. The proposed interim standard is set at 15 ug/L; therefore, the sampling for perchlorate was discontinued.

Due to the continued presence of TCE in the GW and the complex site hydrogeology, the site has been placed in the RI/FS phase.

Sampling events were conducted in 2010 and 2011.

The site was addressed in the 2002 and 2007 five-year review reports.

CLEANUP/EXIT STRATEGY

GW sampling events are planned for 2012, 2014, and 2017.

RI fieldwork will begin in January 2012 based on the December 2011 Work Plan.

The remaining monitoring wells will be abandoned when all GW monitoring is completed.

Site ID: FTRI-019 Site Name: FORMER FIRE TRAINING AREA FFTA-MAAF



Regulatory Driver: CERCLA

RRSE:	MEDIUM	

•		
Phases	Start	End
PA	198706	198909
SI	199111	199305
RI/FS	199303	200509
IRA	199411:	200210
RA(C)	200509	200509
RA(O)	200510	201101
LTM	201102	201109
RIP Date:	200510	•
RC Date:	201101	

SITE DESCRIPTION

The Former Fire Training Area-Marshall Army Airfield site consists of a former fire training and drum storage area located at MAAF near the installation boundary. The former fire training area consisted of an unlined pit filled with crushed stone. The fire training area operated from the mid 1960s to 1984. In 1982, a drum of PCE was accidentally released into the fire training pit. Efforts were made to recover the spilled material, but only a portion was recovered. Off-post contamination was encountered in private wells. The impacted private wells have been replaced by new wells drilled outside the GW contamination plume.

Since February 2005 all GW contaminant concentrations are below their respective MCLs.

The ROD was signed in 2005. The remedy is MNA with institutional controls. A RD was completed in January 2006.

The analysis of the 2009 sampling event showed no COC above the MCLs were present in the alluvial aquifer of the Kansas River per the ROD, which specified three years of post-ROD sampling below the MCL.

A RACR was generated in 2010 and approved by the regulators in September 2010. The site was approved for closure.

This site was addressed in the five-year reviews in 2002 and 2007.

CLEANUP/EXIT STRATEGY

This site is complete and approved for closure in FY11.

Site ID: FTRI-027 Site Name: DRY CLEANING FACILITIES AREA



Regulatory Driver: CERCLA RRSE: MEDIUM Contaminants of Concern: Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA	198312	198412
SI	198706	198909
RI/FS	199106	200803
RD	200804	200806
IRA	199406	199502
RA(C)	200806	200806
RA(O)	200807	201709
	201710	

RIP Date: 200807

RC Date: 201709

SITE DESCRIPTION

The former DCFA is located in the southwest corner of the main post cantonment area, about 800 feet north of the Kansas River. The DCFA operated until 2002. The primary dry cleaning solvent was PCE. Chlorinated solvent contamination above regulatory standards was found in soil and GW.

The RI baseline risk assessment indicates minimal risk associated with the site under current and anticipated land use; however, the PCE-contaminated GW had degraded the Kansas River alluvial aquifer.

In 2006, a successful pilot study that addressed soil contamination using excavation and land farming was conducted. It also addressed GW contamination through enhanced bioremediation and chemical oxidation.

In March 2008, the ROD was approved and had MNA with institutional controls as the selected remedy. The RD was completed in June 2008. The 2010 annual sampling event concluded the pilot study evaluation.

An additional bioremediation injection of the eastern GW plume was completed in 2010 followed by four quarterly sampling events. Two of the quarterly sampling events occurred in 2011.

This site was addressed in the five-year review reports completed in August 2002 and 2007.

CLEANUP/EXIT STRATEGY

In 2012, the western plume will be evaluated for further GW treatment. Since the western plume is under the alluvium, PCE contaminant levels need to drop from the current 20 parts per billion (ppb) to below the MCL of 5 ppb before proceeding with a RACR.

GW sampling and five-year reviews are planned for 2012 and 2017, and will be the basis for future decisions.

An RACR will be submitted after GW contamination in the alluvial wells drops below the MCLs.

Well abandonment will occur when all GW monitoring is completed.

Site ID: FTRI-031 Site Name: 354 AREA SOLVENT DETECTIONS (354)



Regulatory Driver: RRSE: LOW

Contaminants of Concern: Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

CERCLA

Media of Concern: Groundwater

Phases	Start	End
PA	199111	199305
SI	199312	199507
RI/FS	199609	200608
RD	200608	200703
RA(C)	200703	200703
RA(0)	200704	201709
LTM	201710	201806
RIP Date:	200704	
RC Date:	201709	

SITE DESCRIPTION

Fuel and solvent storage/dispensing occurred near former building 354 in the Public Works yard. The USTs were used to store fuel and removed in 1990 and 1991. There are no records to determine if solvents were stored in drums, USTs, or aboveground storage tanks (ASTs). The PCE, its degradation products, carbon tetrachloride, and fuel-related hydrocarbons are present. The site extends from just north of building 430 (the Main Post fire station) to the "point bar" on the north bank of the Kansas River. At building 430, the only contaminant is carbon tetrachloride below the MCL.

Currently, PCE is the only contaminant above the MCL in GW samples in three terrace wells. They do not pose a risk and do not present an impact to the Kansas River alluvial aquifer. One well in the transition zone has benzene just below the MCL.

The ROD was signed in 2006 and the site remedy is MNA with institutional controls. The RD was completed in March 2007.

The results of the 2009 sampling event showed no COC above the MCLs in the alluvial aquifer of the Kansas River. Per the ROD, it was specified that if three years of post-ROD sampling were below the MCLs in the alluvial aquifer of the Kansas River, the course of action would be to make a recommendation to discontinue sampling and close out the site. Three terrace wells remain above the MCL for PCE.

Limited GW sampling was conducted in 2011.

This site was addressed in the site-wide five-year review reports completed in August 2002 and 2007.

CLEANUP/EXIT STRATEGY

GW sampling and five-year reviews are planned for 2012, and will be the basis for the FY17 decision.

Excess monitoring wells will be abandoned in FY12.

FTRI will resubmit the RACR when the third remedial action (operation) [RA(O)] is achieved. FTRI will then request the USEPA to consider partial NPL deletion.

Well abandonment will occur when all GW monitoring is completed.



Site ID: FTRI-056 Site Name: ABANDONED GASOLINE LINE

STATUS

Regulatory Driver: CERCLA

RRSE: LOW

Contaminants of Concern: Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA	199111	199409
SI	199408	199603
	199803	
RD	201103	201108
	200609	
RA(C)	201103	201108
RA(0)	201109	201809
LTM	201810	202110

RIP Date: 201109

RC Date: 201809

SITE DESCRIPTION

USTs and a 1.1 mile steel pipeline that make up the Abandoned Gasoline Line (AGL) were installed in 1937 to transfer aviation gasoline from the railroad siding at the Main Post to the MAAF. The AGL terminus area associated with the pipeline is located between buildings 754 and 748B at the airfield. In 1951, the pipeline was removed from service after a portion of the line was destroyed during the flooding of the Kansas River. In 1987, the USTs, where diesel and aviation gasoline were stored, were removed. An investigation of the abandoned pipeline in 1998 showed that it had been cut in several places at the terminus area during installation of utilities. Thus far, the investigation and cleanup process outlined in CERCLA is followed for this site since FTRI is an NPL site (1990) and most of the releases occurred pre-1984 HSWA (RCRA-I). The regulatory agency, the KDHE, has broad authority to accept the CERCLA process to achieve cleanup goals for a site contaminated with petroleum-related hazardous constituents, in spite of the CERCLA petroleum exclusion.

A preliminary assessment (PA) investigation was performed at the former terminus area in 1993 that showed possible benzene contamination. A site inspection (SI) field investigation in 2001 revealed soil and GW contamination related to the former USTs exceeding risk-based standards. The hazardous substance, 1;2-DCA, and petroleum-related constituents were detected. Sampling along the pipeline did not reveal any contamination. Further assessment of the site occurred in August 2004. The soil and GW results revealed concentrations of benzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene well above risk-based standards.

An EE/CA and Action Memorandum to document the selection of the removal alternative was approved in February 2006. The remedial response was initiated in August 2006 and involved the injection of a chemical oxidant and an oxygen source in the contaminated zones. The fieldwork was performed in October-November 2006 and July-August 2007. Post-treatment GW monitoring to analyze the effectiveness was performed in 2007, 2008, and 2009. A RI-like investigation to evaluate the extent of the remaining mass of contaminants in the soil and GW was completed in February 2010. Proposals were then solicited from remediation contractors to address this contamination. A contract for environmental remediation services was awarded in September 2010.

Addenda to the original EE/CA and Action Memorandum to document the additional response action were made and public noticed in the spring of 2011. This decision document (DD) was approved by June 2011. This response action is expected to be the final action for the AGL site. The response activities include excavation and landfarming of the contaminated soil, two injections of an oxygen source to treat the contaminated GW, followed by performance sampling, then MNA until the cleanup goals are met for site-closeout. The construction activities (remedial action (construction) (RA-C)) are scheduled to begin in mid-June and continue through August 2011. When the last injection to treat GW is completed in September 2011, RIP will be achieved followed by RA(O).



Site ID: FTRI-056 Site Name: ABANDONED GASOLINE LINE

CLEANUP/EXIT STRATEGY

RA(O) will begin in September 2011 and includes GW monitoring at the AGL site and operation, maintenance, and sampling at the landfarm area for two years, followed by MNA of GW for five years.

RA(O) is expected to end in September 2018 with site-closeout approval by the KDHE.

LTM will start in approximately October 2018 and end in October 2021 when the monitoring wells are plugged and abandoned.

Site ID: FTRI-057 Site Name: 6200 AREA FUEL OIL LINE (ANCHOR)



Regulatory Driver: CERCLA

RRSE: LOW

Contaminants of Concern: Petroleum, Oil and Lubricants (POL), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA	199010	199012
SI	199312	199502
RI/FS	199606	200806
RD	200806	200901
IRA	199601	200505
RA(C)	200902	201002
RA(0)	201003	201803
	201804	

RIP Date: 201003

RC Date: 201803

SITE DESCRIPTION

Site FTRI-057 is the open site being used as the anchor for the POL sites in Camp Funston [FTRI-063 (1044), FTRI-066 (1245), and FTRI-068 (1637)]. The sites are former fuel dispensing stations, where steel USTs (17 total) were installed in 1942 during WWII and the leaking USTs were removed in 1990. Thus far, the investigation and cleanup process outlined in CERCLA has been followed since FTRI is a NPL site (August 1990) and most of the releases occurred pre-1984 HSWA (RCRA-I). The regulatory agency, the KDHE, has broad authority to accept the CERCLA percess to achieve cleanup goals for a site contaminated with petroleum-related hazardous constituents, in spite of the CERCLA petroleum exclusion.

A PA was performed in November 1992 to January 1993. A SI was performed from 1994-1995 indicating extensive soil and GW contamination. Free-product recovery occurred in 1995. RA Plans for the sites were generated in 1997. Intrinsic remediation with GW monitoring followed by an evaluation of the effectiveness of the intrinsic remediation in five years was selected as the IRA in 1997. GW monitoring was performed until 2006. The monitoring results indicated elevated concentrations of contaminants in the GW above risk-based standards and the presence of free-product.

From April 2006 to October 2007, an investigation was performed to determine the extent of contamination. The study included a magnetometer survey, installation of free phase hydrocarbon borings, well installations, sampling, and soil vapor extraction (SVE)/DPE pilot studies. The results revealed that the sites could not reach the site-closeout milestone without active remediation. A FS-like review that included a RD discussion of several alternatives and selection of a remedy was performed in December 2007-January 2008. An engineering design report was completed in June 2008. A remediation contract was awarded in February 2009 and the design implementation work plan was completed in September 2009. The fieldwork for construction of the DPE systems began in September 2009 and was completed in February 2010. The startup operation of the systems began in March 2010.

RIP was approved by the regulator (KDHE) in a letter dated June 14, 2010. Ongoing RA(O) activities with maintenance and monitoring began in July 2010 and will continue until 2013. The DPE systems will be shut down when cleanup levels are met or they are no longer effective. Cleanup may then continue under MNA or another technology, if needed, to reach closure.

CLEANUP/EXIT STRATEGY

RA(O) until March 2018 (systems maintenance and GW monitoring followed by MNA).

LTM/Well abandonment (April 2018 to July 2018) will occur when all GW monitoring is complete and the sites are considered closed by the KDHE.

Site ID: FTRI-074 Site Name: WWI INCINERATOR, NW CAMP FUNSTON



Regulatory Driver: CERCLA RRSE: LOW Contaminants of Concern: Metals Media of Concern: Soil

Phases	Start	End
PA	200102	200104
	200104	
	201102	
RD	201406	201411
IRA	201009	201010
RA(C)	201412	201502
RA(O)	201502	201502
RIP Date:	201502	
RC Date:	201502	

SITE DESCRIPTION

The NW Camp Funston WWI Incinerator site was discovered at part of a 2000 effort evaluating potential wastewater plant locations.

In 2001, XRF and lab confirmation sampling identified elevated levels of lead and arsenic soil contamination. Three of 17 lab samples had arsenic concentrations above the KDHE Risk-Based Standards for Kansas (RSK) residential soil standards (11 milligram per kilogram (mg/kg)), while two of 17 lab samples had lead concentrations above the KDHE RSK residential soil standards (400 mg/kg). There were no results above the KDHE RSK non-residential soil standards for arsenic (38 mg/kg) or lead (1000 mg/kg). Due to its isolated location adjacent to the rail tracks, further action was not taken.

In 2006, as part of the Expanded Site Investigation effort to obtain site closures, a more extensive soil sampling effort was conducted. Thirty-six locations consisting of three soil horizons in the top two feet of soil were sampled. This effort showed a higher level of contamination and a more extensive area of contamination than the 2001 sampling event. Arsenic averaged 9.2 mg/kg with 23 points above the KDHE RSK residential soil standards and three points above the KDHE RSK non-residential soil standards. Lead averaged 99 mg/kg with four points above the KDHE RSK residential soil standards and one point above the KDHE RSK non-residential soil standards.

In 2010 FTRI decided to construct a rail spur that would cover a portion of the incinerator site, which required an emergency removal. Concurrently, the KDHE promulgated a new definition of uncontaminated soil that required disposal of the arsenic/lead contaminated soil as special waste. In September and October 2010, the incinerator foundation and associated contaminated soil on the terrace was excavated and disposed as special waste (323 cubic yards (cu yd)); however, a deeper subsurface arsenic-contaminated ash/soil layer was discovered on the slope (2390 cu yds) and in the alluvial soil south of the site (190 cu yds under 540 cu yds of clean soil). Eight trenches were dug to characterize the ash layer. Lab results from composite soil samples from six of the trenches varied from 16.2 to 34.4 mg/kg arsenic. The limits of the alluvial ash layer were not completely defined during the 2010 effort.

Due to the increased complexity, the site has been placed in the RI/FS phase.

CLEANUP/EXIT STRATEGY

RI fieldwork will begin in December 2011 based on the November 2011 Work Plan.

Site ID	Site Name	NFA Date	Documentation
FTRI-002	WHITSIDE C/D LANDFILL-CLOSED	199803	Landfill closed and inspected by the KDHE in 2002. This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in
FTRI-004	MAIN POST LANDFILL	199712	2007. This site was investigated under the FTRI-031 354 Area Solvent Detection site and is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-005	CUSTER HILL ROAD RUBBLE DUMP	199305	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-006	DRMO STORAGE AREA	199809	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-007	PCB STORAGE BUILDING 343	198909	This site is part of the overall effort to address improperly closed out sites. It required additional sampling to be conducted in FY08. Received regulatory closure from EPA, Region VII and the KDHE in January 2009.
FTRI-008	PCB STORAGE CONEX (BUILDING 348)	199012	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-010	PESTICIDE (2-4D) UST AT CAMP FUNSTON	199204	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-011	CAMP FUNSTON GW DETECTIONS	200501	Received regulatory closure from the KDHE on 11/9/07 & the EPA, Region VII on 11/26/07.
FTRI-012	WASTE STORAGE DRMO SECONDARY AREA	199509	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-013	ABANDONED VOC TANKS NORTH OF IACH	199202	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-014	HOSPITAL INCINERATOR-IRWIN ACH	198909	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
-TRI-015	FORMER DRMO LOCATION (DRMO AREA 2)	199509	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-016	WASTE OIL AST-3RD BATTERY	198909	This site is part of the overall effort to address improperly closed out sites.

Site ID	Site Name	NFA Date	Documentation
-			Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-017	WASTE OIL AST-4TH BATTERY	198909	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-018	FIRE TRAINING AREA FACILITY (892)	198909	This site is part of the overall effort to address improperly closed out sites. It required additional sampling to be conducted in FY08. Received regulator closure from EPA, Region VII and the KDHE in January 2009.
FTRI-020	INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL)	199803	This site is part of the overall effort to addrress improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-022	FORMER WWTP & SLUDGE BEDS (ANCHOR)	200705	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-023	CUSTER HILL WWTP AND SLUDGE BEDS	199305	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
-TRI-024	FORSYTH WWTP AND SLUDGE BEDS	199305	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the
TRI-025	MAIN POST WWTP AND SLUDGE BEDS	199305	EPA, Region VII & the KDHE in 2007. This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-026	RANGE COMPLEX WW LAGOONS	199305	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-028	FMR FIRE TRAINING AREA CAMP FUNSTON	199402	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-029	OLD INCINERATOR SITE SE-CAMP FUNSTON	200308	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-030	PESTICIDE STORAGE FACILITY (MIXING)	201005	The site was closed with regulator approval of an April 2010 Explanation of Significant Differences.
TRI-032	IMPACT ZONE	199309	This site is an active range and therefor ineligible for ER,A funding.
TRI-033		199305	This site is an active range and therefor ineligible for ER,A funding.
TRI-034	IMPACT AREA PERIMETER SMALL ARM RANGES	199612	This site is an active range and therefor ineligible for ER,A funding.
TRI-035	NON-IMPACT AREA SMALL ARMS RANGES	200007	This site is an active range and therefor ineligible for ER,A funding.

Site ID	Site Name	NFA Date	Documentation
FTRI-036	SOUTHEAST FUNSTON LANDFILL (ANCHOR)	200901	This site is part of the overall effort to address improperly closed out sites. It required additional sampling to be conducted in FY08. Received regulatory closure from EPA, Region VII and the
FTRI-037	OLD WHITSIDE INCINERATOR AREA	199507	KDHE in January 2009. This site is part of the overall effort to address improperly closed out sites.
			Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-038	FORSYTH LANDFILL(S)	200708	Received regulatory closure from the EPA, Region VII & the KDHE for IRP in August 2007.
FTRI-039	CONSOLIDATED MAINTENANCE FACILITY	199305	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the
FTRI-040	FORMER OIL TESTING LAB (ANCHOR)	200711	EPA, Region VII & the KDHE in 2007. Received regulatory closure from the EPA, Region VII & the KDHE in Novemb 2007.
FTRI-041	FURNITURE REPAIR SHOPS (3)	199507	This site is part of the overall effort to address improperly closed out sites. Two of the three sites received regulatory closure from the EPA, Region VII & the KDHE in 2007. One site (bldg 1605)
			required additional sampling in FY08 and received regulatory closure from EPA, Region VII and the KDHE in January 2009.
-TRI-042	TAC VEHICLE MAINTENANCE SHOPS	199305	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-043	FORMER GAS STATIONS/GARAGES	199305	This site is part of the overall effort to address improperly closed out istes. Received regulatory closure from the KDHE in 2008 and the EPA, Region VII i 2009, except one site at Forsyth I Street that was sampled in FY08.
TRI-044	FORMER ASPHALT PLANT (NEAR BLDG 354)	199509	This is site was addressed in the 354 Are Solvent Detections RI/FS/PP and will fall under the ROD developed for FTRI-031.
TRI-045	PHOTO AND PRINT PLANTS	199507	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-046	FRMR DS/GS Bldg 1693 Adj Areas	199507	This site is part of the overall effort to address improperly closed out sites. It wa included under the sampling event in FY08.
TRI-047	FORMER LIVESTOCK DIPPING FACILITY	200711	Received regulatory closure from the EPA, Region VII & the KDHE in Novembr 2007.
FTRI-048	FORMER PESTICIDES FACILITIES	199507	This site is part of the overall effort to address improperly closed out sites.

Site ID	Site Name	NFA Date	Documentation
			Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-049	MERCURY CONTAMINATION AREAS	199305	This site is part of the overall effort to address improperly closed out istes.
			Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-050	PCB SPILL AREAS /TRANSFORMER SITES	199803	This site is part of the overall effort to address improperly closed out sites.
			Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-051	BLDG. 727 WASTE PIT	199903	This site is part of the overall effort to address improperly closed out sites. It required additional sampling to be conducted in FY08. Received regulato closure from EPA, Region VII and the
701050			KDHE in January 2009.
TRI-052	INACTIVE LANDFILLS - CAMP WHITSIDE	199507	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-053	POL TANK FARM	200505	This site has been transferred to the Compliance-Related Cleanup Program under CC-FTRI-01.
TRI-054	CUSTER HILL PX USTS BLDG 5320	199709	This site is part of the overall effort to address improperly closed out sites. It being addressed in CC-FTRI-09 Fuel Dispensing Stations.
TRI-055	MILFORD LAKE CAMPGROUND/MARINA WELLS	199507	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-059	REMOVE USTS	199012	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-060	MAINPOST PX GAS STATION / 218	199506	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
TRI-061	FORMER GAS SERVICE STATION BLDG 354	199510	This site was closed under the FTRI-03 354 Area Solvent Detection site ROD.
TRI-062	TMP GAS STATION BLDG 388	200501	This site is part of the overall effort to address improperly closed out sites. It being addressed in CC-FTRI-09 Fuel Dispensing Stations.
TRI-063	FMR BLDG 1044 DISPENSING STATION	200501	This site is part of the overall effort to address improperly closed out sites. It being addressed in FTRI-057 6200 Are Fuel Oil Line. This site has soil and groundwater contamination. A remediation system is in operation.
TRI-064	FMR BLDG 1090 DISPENSING STATION	199506	This site is part of the overall effort to

Site ID	Site Name	NFA Date	Documentation
	•	·	address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-065	FMR BLDG 1190 DISPENSING STATION	199506	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the
FTRI-066	FMR BLDG 1245 DISPENSING STATION	200501	EPA, Region VII & the KDHE in 2007. This site is part of the overall effort to address improperly closed out sites. It is
			being addressed in FTRI-057 6200 Area Fuel Oil Line. This site has soil and groundwater contamination. A remediation system is in operation.
FTRI-067	FMR BLDG 1539 DISPENSING STATION	199708	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-068	FMR BLDG 1637 DISPENSING STATION	200501	This site is part of the overall effort to address improperly closed out sites. It is being addressed in FTRI-057 6200 Area
			Fuel Oil Line. This site has soil and groundwater contamination. A remediation system is in operation.
FTRI-069	FMR BLDG 1890 DISPENSING STATION	199708	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.
FTRI-070	FMR BLDG 2341 DISPENSING STATION	199601	This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the
FTRI-071	FMR BLDG 2345 DISPENSING STATION	199411	EPA, Region VII & the KDHE in 2007. This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the
FTRI-072	BLDG 8340 FUEL OIL UST	199411	EPA, Region VII & the KDHE in 2007. This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the
FTRI-073	BLDG 8360 FUEL OIL UST	199505	EPA, Region VII & the KDHE in 2007. This site is part of the overall effort to address improperly closed out sites. Received regulatory closure from the EPA, Region VII & the KDHE in 2007.

Date of IRP Inception: 198312 **Past Phase Completion Milestones** 1985 SI (FTRI-032 - IMPACT ZONE) RFA (FTRI-008 - PCB STORAGE CONEX (BUILDING 348), FTRI-039 - CONSOLIDATED MAINTENANCE FACILITY) PA (FTRI-003 - SOUTHWEST FUNSTON LANDFILL, FTRI-004 - MAIN POST LANDFILL, FTRI-009 - OB/OD GROUND (RANGE 16), FTRI-023 - CUSTER HILL WWTP AND SLUDGE BEDS, FTRI-024 - FORSYTH WWTP AND SLUDGE BEDS, FTRI-025 - MAIN POST WWTP AND SLUDGE BEDS, FTRI-027 - DRY CLEANING FACILITIES AREA , FTRI-030 - PESTICIDE STORAGE FACILITY (MIXING), FTRI-032 - IMPACT ZONE, FTRI-033 - DOUTHIT RANGE, FTRI-034 - IMPACT AREA PERIMETER SMALL ARM RANGES, FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES) 1989 PA (FTRI-001 - CUSTER HILL SANITARY LANDFILL, FTRI-014 - HOSPITAL INCINERATOR-IRWIN ACH, FTRI-019 - FORMER FIRE TRAINING AREA FFTA-MAAF, FTRI-020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL), FTRI-022 - FORMER WWTP & SLUDGE BEDS (ANCHOR), FTRI-026 - RANGE COMPLEX WW LAGOONS, FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTRI-029 - OLD INCINERATOR SITE SE-CAMP FUNSTON, FTRI-036 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTRI-038 -FORSYTH LANDFILL(S)) INV (FTRI-018 - FIRE TRAINING AREA FACILITY (892)) DES (FTRI-008 - PCB STORAGE CONEX (BUILDING 348)) (FTRI-001 - CUSTER HILL SANITARY LANDFILL, FTRI-003 - SOUTHWEST FUNSTON LANDFILL , FTRI-SI 014 - HOSPITAL INCINERATOR-IRWIN ACH, FTRI-022 - FORMER WWTP & SLUDGE BEDS (ANCHOR) FTRI-023 - CUSTER HILL WWTP AND SLUDGE BEDS, FTRI-024 - FORSYTH WWTP AND SLUDGE BEDS, FTRI-025 - MAIN POST WWTP AND SLUDGE BEDS, FTRI-027 - DRY CLEANING FACILITIES AREA , FTRI-030 - PESTICIDE STORAGE FACILITY (MIXING), FTRI-034 - IMPACT AREA PERIMETER SMALL ARM RANGES, FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES) RFA (FTRI-002 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-007 - PCB STORAGE BUILDING 343, FTRI-010 -PESTICIDE (2-4D) UST AT CAMP FUNSTON, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA. FTRI-013 - ABANDONED VOC TANKS NORTH OF IACH, FTRI-016 - WASTE OIL AST-3RD BATTERY. FTRI-017 - WASTE OIL AST-4TH BATTERY, FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-045 -PHOTO AND PRINT PLANTS, FTRI-046 - FRMR DS/GS Bldg 1693 Adj Areas, FTRI-050 - PCB SPILL AREAS /TRANSFORMER SITES) CS (FTRI-007 - PCB STORAGE BUILDING 343, FTRI-008 - PCB STORAGE CONEX (BUILDING 348), FTRI-010 - PESTICIDE (2-4D) UST AT CAMP FUNSTON, FTRI-013 - ABANDONED VOC TANKS NORTH OF IACH, FTRI-016 - WASTE OIL AST-3RD BATTERY, FTRI-017 - WASTE OIL AST-4TH BATTERY) ISC (FTRI-018 - FIRE TRAINING AREA FACILITY (892)) 1990 DES (FTRI-013 - ABANDONED VOC TANKS NORTH OF IACH) 1991 DES (FTRI-010 - PESTICIDE (2-4D) UST AT CAMP FUNSTON) IMP(C) (FTRI-059 - REMOVE USTS) CMI(C) (FTRI-008 - PCB STORAGE CONEX (BUILDING 348)) (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION) INV IRA (FTRI-066 - FMR BLDG 1245 DISPENSING STATION, FTRI-067 - FMR BLDG 1539 DISPENSING STATION. FTRI-068 - FMR BLDG 1637 DISPENSING STATION, FTRI-069 - FMR BLDG 1890 DISPENSING STATION) PA (FTRI-057 - 6200 AREA FUEL OIL LINE (ANCHOR)) (FTRI-059 - REMOVE USTS, FTRI-061 - FORMER GAS SERVICE STATION BLDG 354, FTRI-063 - FMR ISC BLDG 1044 DISPENSING STATION, FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION, FTRI-066 - FMR BLDG 1245 DISPENSING STATION, FTRI-067 - FMR BLDG 1539 DISPENSING STATION, FTRI-068 - FMR BLDG 1637 DISPENSING STATION, FTRI-069 - FMR BLDG 1890 DISPENSING STATION, FTRI-070 - FMR BLDG 2341 DISPENSING STATION)

Final without Signatures FORT RILEY Installation Action Plan -

41

 PARE FIRE TRAINING AREA CAMP FUNSTON, FTR-I029 - OLD INCINERATOR SITE SE-CAMP FUNSTON, FTR-I033 - DOUTH TRANCE, FTR-I036 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTR- 037 - OLD WHITSIDE INCINERATOR AREA, FTR-038 - FORSYTH LANDFILL (S), FTR-047 - FORMER LIVESTOCK DIPPING FACILITY, FTR-035 - MILFORD LAKE CAMPGROUND/MARINA WELLS) CFTR-002 - WHITSIDE C/D LANDFILL-CLOSED, FTR-1012 - WASTE STORAGE DRMO SECONDARY AREA, FTR-1039 - CONSOLIDATED MAINTENANCE FACILITY, FTR-041 - FURNITURE REPAIR SHOPS (3), FTR-045 - PHOTO AND PRINT PLANTS, FTR-1046 - FRMR DS/GS Bidg 1693 Adj Areas, FTR-043 - FORMER PESTICIDES FACILITIES, FTR-1050 - PCB SPILL AREAS /TRANSFORMER SITES, FTR-051 - BLDG. 727 WASTE PIT, FTR-1052 - INACTIVE LANDFILLS - CAMP WHITSIDE) PA (FTR-1005 - CUSTER HILL ROAD RUBBLE DUMP, FTR-1066 - DRMO STORAGE AREA, FTR-031 - 354 AREA SOLVENT DETECTIONS, FTR-1015 - FORMER DRMO LOCATION (DRMO AREA 2), FTR-1031 - 354 AREA SOLVENT DETECTIONS, STRI-1047 - FORMER DRMO LOCATION (DRMO AREA 2), FTR-1041 - FORMER ASPHALT PLANT (NEAR BLDG 354), FTR-1047 - FORMER LIVESTOCK DIPPING FACILITY, FTRI 055 - MILFORD LAKE CAMPGROUND/MARINA WELLS) RFA (FTR-1042 - TAC VEHICLE MAINTENANCE SHOPS, FTR-1048 - FORMER PESTICIDES FACILITIES, FTRI- 051 - BLDG. 727 WASTE PIT, FTR-1052 - INACTIVE LANDFILLS - CAMP WHITSIDE) IBM4 RA(C) (FTR-1028 - FMR FIRE TRAINING AREA CAMP FUNSTON) IRA (FTR-1030 - PESTICIDE STORAGE FACILITY (MIXING), FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES, FTRI-1060 - MAINPOST PX GAS STATION / 218) PA (FTR-1056 - ABANDONED GASOLINE LINE) ISC (FTR-1062 - TMP GAS STATION BLDG 388, FTRI-071 - FMR BLDG 1190 DISPENSING STATION) INV (FTR-1070 - FMR BLDG 2345 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST) RD (FTR-1071 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST,		
 RFA (FTRI-49 - MERCURY CONTAMINATION AREAS) CMI(C) (FTRI-01 - PESTICIDE (2-40) UST AT CAMP FUNSTON, FTRI-013 - ABANDONED VOC TANKS NORTH OF IACH, FTRI-043 - MERCURY CONTAMINATION AREAS) ISC (FTRI-054 - CUSTER HILL PX USTS BLDG 5320, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG 8380 FUEL OIL UST) ISS (FTRI-053 - POL TANK FARM, FTRI-060 - MAINPOST PX GAS STATION / 218) RUFS (FTRI-001 - CUSTER HILL SANITARY LANDFILL, FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON FTRI-032 - IMPACT ZONE) (FTRI-004 - MAIN POST LANDFILL, FTRI-006 - DRMO STORAGE AREA, FTRI-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTRI-019 - FORMER FIRE TRAINING AREA FTA-MAAF, FTRI-020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL), FTRI-028 - RANGE COMPLEX WU LAGOONS, FTRI 028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTRI-039 - OLD INCINERATOR STE SE-CAMP FUNSTON, FTRI-033 - DOUTHIT RANGE, FTRI-038 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTRI- 037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - FORSYTH LANDFILL, (ANCHOR), FTRI- 037 - OLD WHITSIDE CO LANDFILL-CLOSED, FTRI-038 - FORSYTH LANDFILL, (ANCHOR), FTRI- 037 - OLD WHITSIDE CO LANDFILL-CLOSED, FTRI-038 - FORSYTH LANDFILL, (ANCHOR), FTRI- 037 - OLD WHITSIDE CO LANDFILL -CLOSED, FTRI-042 - FUNSTON LANDFILL (ANCHOR), FTRI- 037 - OLD WHITSIDE CO LANDFILL -CLOSED, FTRI-042 - TRANSFORMER STES, FTRI-045 - FORMER PESTICIDES FACILITY, FTRI-055 - MILFORM FLOXAT FRANSFORMER STES, FTRI-045 - FORMER PESTICIDES FACILITY, FTRI-055 - MILFORM LANGE STRANSFORMER STES, FTRI-045 - BLDG 727 WASTE PTT, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE) PA (FTRI-045 - PHOTO AND PRINT PLANTS, FTRI-046 - FORMER GASE AREA, FTRI-041 - FORMER ASPHALT PLANT (NEAR BLDG 340, FTRI-037 - OLD WHITSIDE) PA (FTRI-047 - TRIC AMPRONT MARCA, FTRI-043 - FORMER GASES, FTRI-044 - FORMER PASTICIDES FTRI-015 - FORMER DRMS LOCATION (IRMM AREA, STRI-013 - S44 AREA SOLVENT DETECTIONS, (FTRI-045 - FORMER DRMS LOCATION AREA 2, FTRI-044 - FORMER FASPT	1992	
 RFA (FTRI-049 - MERCURY CONTAMINATION AREAS) CMI(C) (FTRI-010 - PESTICIDE (2-4D) UST AT CAMP FUNSTON, FTRI-013 - ABANDONED VOC TANKS NORTH OF IACH, FTRI-043 - MERCURY CONTAMINATION AREAS) ISC (FTRI-054 - CUSTER HILL PX USTS BLDG 5320, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG 8380 FUEL OIL UST) 1993 ISC (FTRI-053 - POL TANK FARM, FTRI-060 - MAINPOST PX GAS STATION / 218) RUFS (FTRI-001 - CUSTER HILL SANITARY LANDFILL, FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON FTRI-032 - IMPACT 20NE) SI (FTRI-041 - CUSTER HILL SANITARY LANDFILL, FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON FTRI-032 - IMPACT 20NE) SI (FTRI-041 - MAIN POST LANDFILL, FTRI-036 - DRMO STORAGE AREA, FTRI-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTRI-037 - NONE TRAINING AREA CAMP FUNSTON, FTRI-032 - IMPACT 200 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL), FTRI-028 - RANGE COMPLEX WU LAGOONS, FTRI 028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTRI-039 - OLD INCINERATOR SITE SE-CAMP FUNSTON, FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-039 - CONSOLIDATED MAINTENANCE SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTRI-037 - OLD WHITSIDE ON CUNERATOR AREA, FTRI-038 - FORSYTH LANDFILL, CANCEND, FTRI-037 - OLD WHITSIDE ON CUNERATOR AREA, FTRI-038 - FORSYTH AND WELLS) CS (FTRI-042 - PHOTO AND PRINT PLANTS, FTRI-046 - FRIM DS/CS Bidg 1083 Adj Areas, FTRI-038 - CONSOLIDATED MAINTENANCE FACILITY, FTRI-031 - ADM FULSTON AREA, PTRI-031 - SOUTHEAST TRANSFORMERS TIES, FTRI-046 - FORMER PESTICIDES FACILITIES, FTRI-050 - NEOROD STORAGE AREA, FTRI-031 - CAMP FUNSTON GW DETECTIONS, FTRI-051 - ROTMER DRMD LOCATION (DRMO AREA 2), FTRI-031 - SOUTHEAST AND STRANSFORMERS TIES, FTRI-041 - FORMER AREA STATIONS/GARAGES, FTRI-041 - FORMER PESTICIDES FACILITY, FTRI-042 - TRI-043 - FORMER CANS TRANSFORMERS TIES, FTRI-041 - FORMER AREA CAMP FUNSTON GW DETECTIONS, GASI AND FUEL ANDFILLS - CAMP WHITSIDE) PA (FTRI-042 - TAC VEHICLE MAINTENANCE SHOPS, FT	IRA ·	(FTRI-054 - CUSTER HILL PX USTS BLDG 5320. FTRI-061 - FORMER GAS SERVICE STATION BLDG 354)
 CMI(C) (FTRI-010 - PESTICIDE (2-40) UST AT CAMP FUNSTON, FTRI-013 - ABANDONED VOC TANKS NORTH OF IACH, FTRI-049 - MERCURY CONTAMINATION AREAS) ISC (FTRI-054 - CUSTER HILL PX USTS BLDG 5320, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG 8300 FUEL OIL UST) ISC (FTRI-053 - POL TANK FARM, FTRI-060 - MAINPOST PX GAS STATION / 218) (FTRI-010 - CUSTER HILL SANITARY LANDFILL, FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON FTRI-032 - IMPACT ZONE) SI (FTRI-010 - CUSTER HILL SANITARY LANDFILL, FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON FTRI-032 - IMPACT ZONE) SI (FTRI-010 - FORMER TRAINING AREA CAMP FUNSTON, FTRI-029 - OLI DICINERATOR STRI-010 - FORMER FIRE TRAINING AREA A FTRI-040 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL, FTRI-028 - RANGE COMPLEX WW LAGOONS, FTRI-037 - OLD WHITSIDE INCINERATOR STRI-038 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTRI-039 - OUTHIT RANGE, FTRI-038 - FORVTH LANDFILL (S), FTRI-047 - FORMER LIVESTOCK DIPPING FACILITY, FTRI-035 - MILFORD LAKE CAMPGROUNDMRINA WELLS) CS (FTRI-042 - WHITSIDE CO LANDFILL COSED, FTRI-032 - SOUTHEAST FUNSTON RIPA THE OBS - CONSOLIDATED MAINTENANCE FACLITY, FTRI-041 - FURNTURE REPAR SHOPS (S), FTRI-045 - POND AND PRINT PLANTS, FTRI-046 - FRMR DSG Bidg 1693 Adj Areas, FTRI-048 - FORMER PRESTICIDES FACILITIES, FTRI-053 - POB SPILL AREAS TRANSFORMER SITES, FTRI-043 - 50 FMER PESTICIDES FACILITIES, FTRI-035 - PORMER GAS STATIONS/GARAGES, FTRI-043 - 50 FMER DRMS LOCATION (DRMO AREA 2), FTRI-031 - 34 AREA SOLVENT DETECTIONS (34), IFTRI-047 - FORMER GAS STATION/GARAGES, FTRI-043 - FORMER PESTICIDES FACILITY, FTRI-035 - FORMER GAS STATION/GARAGES, FTRI-044 - FORMER REAS CAMP WHITSIDE) PA (FTRI-055 - CUSTER HILL ROAD RUBBLE DUMP, FTRI-043 - FORMER LIVESTOCK DIPPING FACILITY, FTRI-045 - FORMER GAS STATION/GARAGES, FTRI-044 - FORMER A SHALT PLANT (NEAR BLDG 1000 DISPENSING STATION) (FTRI-072 - TRI-045 - FTRI-045 - FORMER DESTICIDES FACILITY FTRI-055 - MILFORD AREA CAMP F	RFA	
 ISC (FTR-054 - CUSTER HILL PX USTS BLDG 5320, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG 8340 FUEL OIL UST) ISC (FTR-053 - POL TANK FARM, FTRI-066 - MAINPOST PX GAS STATION / 218) ISC (FTR-001 - CUSTER HILL SANITARY LANDFILL, FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON FTRI-032 - IMPACT ZONE) SI (FTR-004 - MAIN POST LANDFILL, FTRI-006 - DRMO STORAGE AREA, FTRI-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTRI-019 - FORMER FIRE TRAINING AREA AMAF, FTRI-020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HILL), FTRI-028 - RANGE COMPLEX WW LAGOONS, FTRI 028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTRI-039 - OLD INCINERATOR SITE SE-CAMP FUNSTON, FTRI-030 - DOUTHIT RANGE, FTRI-038 - FORSYTH LANDFILL (ANCHOR), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - FORSYTH LANDFILL (ANCHOR), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - FORSYTH LANDFILL (ANCHOR), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - FORSYTH LANDFILL (ANCHOR), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - FORSYTH LANDFILL (ANCHOR), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - FORSYTH LANDFILLS, CAMP GROUND/MARINA WELLS) CS (FTRI-039 - CONSOLIDATED MAINTENANCE FACILITY, FTRI-041 - FORMER SHOPS (3), FTRI-043 - PONTO AND PRINT PLANTS, FTRI-046 - FRMR SIGS Bidg 1693 Ad Paes, FTRI-048 - FORMER CASC STATION AND SECONDARY AREA, FTRI-043 - PONTO STORAGE AREA, FTRI-043 - FORMER CASC STATION CW DETECTIONS, GTRA-054, FORMER LARS STRATISOR MER SITES, FTRI-044 - FORMER PESTICIDES FACILITY, FTRI-055 - PONTOR FORMO STORAGE AREA, FTRI-040 - FORMER CASC STATION SCONDARY AREA SOLVENT DETECTIONS, GTRA-054, FTRI-044 - FORMER RESTORAGE AREA, FTRI-041 - FORMER CASC TANDY AREA SOLVENT DETECTIONS, GTRA-054, FTRI-044 - FORMER RESTICIDES FACILITY, FTRI-045 - FORMER CASC TRANS, STATION STAT	CMI(C)	(FTRI-010 - PESTICIDE (2-4D) UST AT CAMP FUNSTON, FTRI-013 - ABANDONED VOC TANKS NORTH
 1993 ISC (FTRI-053 - POL TANK FARM, FTRI-060 - MAINPOST PX GAS STATION / 218) ISC (FTRI-001 - CUSTER HILL SANITARY LANDFILL, FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON FTRI-032 - IMPACT ZONE) SI (FTRI-001 - AMIN POST LANDFILL, FTRI-006 - DRMO STORAGE AREA, FTRI-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTRI-019 - FORMER FIRE TRAINING AREA FTRI-020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL), FTRI-028 - RANGE COMPLEX WW LAGOONS, FTRI- 028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTRI-029 - DLD INCINERATOR SITE SE-CAMP FUNSTON, FTRI-033 - DOUTHIT RANGE, FTRI-036 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTRI- 037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - FORSYTH LANDFILL(S), FTRI-047 - FORMER LIVESTOCK DIDPING FACILITY, FTRI-055 - MILFORD LAKE CAMPGROUNDMARINA WELLS) CS (FTRI-002 - WHITSIDE CID LANDFILL-CLOSED, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA, FTRI-039 - CONSOLIDATED MAINTENANCE FACILITY, FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-035 - POTO AND PRINT PLANTS, FTRI-046 - FRMR SIGS Bidg 1693 difeas, FTRI-046 - FORMER PESTICIDES FACILITIES, FTRI-050 - PCB SPILL AREAS (TRANSFORMER SITES, FTRI-041 - BLOG, 727 WASTE PTI, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE) PA (FTRI-005 - OUSTER HILL ROAD RUBBLE DUMP, FTRI-006 - DRMO STORAGE AREA, FTRI-041 - CAMP FUNSTON GW DETECTIONS, STAL FOLS - PORMER RORM OLOCATION (DRMO AREA 2), FTRI-041 - FORMER GAS STATION GW DETECTIONS, FTRI-043 - FORMER RORM OLOCATION (DRMO AREA 2), FTRI-041 - FORMER ASPHALT PLANT (NEAR BLDG 364), FTRI-043 - FORMER LIVESTOCK DIPFING FACILITY, FTRI 055 - MILFORD LAKE CAMPGROUNDMARINA WELLS) RFA (FTRI-042 - TAV CHAINANCE SHOPS, FTRI-043 - FORMER LIVESTOCK DIPFING FACILITY, FTRI 051 - BLDG, 727 WASTE PTI, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE) RFA (FTRI-042 - TAV GAS STATION MEDE GASB, FTRI-044 - FORMER RESTICIDES FACILITY, FTRI 051 - BLDG, 2727 WASTE PTI, FTRI-052 - INACTIVE LANDFILL - CAMP WHITSIDE)<td>ISC</td><td>(FTRI-054 - CUSTER HILL PX USTS BLDG 5320, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG</td>	ISC	(FTRI-054 - CUSTER HILL PX USTS BLDG 5320, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG
 ISC (FTRI-053 - POL TANK FARM, FTRI-060 - MAINPOST PX GAS STATION / 218) RIFS (FTRI-001 - CUSTER HILL SANITARY LANOFILL, FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON FTRI-032 - IMPACT 200E) SI (FTRI-040 - MAIN POST LANOFILL, FTRI-066 - DRMO STORAGE AREA, FTRI-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTRI-019 - FORMER FIRE TRAINING AREA FFTA-MARE, FTRI-020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL), FTRI-026 - RANGE COMPLEX W/ LAGOONS, FTRI 028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTRI-020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL), FTRI-026 - OLD INCINERATOR SITE SE-CAMP FUNSTON, FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - FORSYTH LANDFLL (ANCHOR), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - FORSYTH LANDFLL (S), FTRI-047 - FORMER UVESTOCK DIPPING FACILITY, FTRI-055 - MILFORD LAKE CAMP GROUNDIMARINA WELLS) CS (FTRI-032 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA, FTRI-039 - CONSOLIDATE MAINTENANCE FACILITY, FTRI-041 - FURNITURE REPARIS RHOPS (3), FTRI-032 - NOSOLIDATE MAINTENANCE FACILITY, FTRI-041 - FURNITURE REPARIS RHOPS (3), FTRI-032 - NOSOLIDATE MAINTENANCE FACILITY, FTRI-046 - FMMR DS/GS Bid] 683 Ad] Areas, FTR-048 - FORMER PESTICIDES FACILITIES, FTRI-037 - OLD WHITSIDE) PA (FTRI-032 - UDSTER HILL RODA RUBBLE DUMP, FTRI-006 - DRMO STORAGE AREA, FTRI-031 - 354 AREA SOLVENT DETECTIONS (354), FTRI-037 - OLD WHITSIDE) PA (FTRI-042 - TAC VEHICLE MAINTENANCE SHOPS, FTRI-048 - FORMER TORNSGES, FTRI-044 - FORMER AS PHALT PLANT (NEAR BLDG 354), FTRI-035 - NONE BITO, FTRI-037 - 354 AREA SOLVENT DETECTIONS (354), FTRI-037 - FORMER LIVESTOCK DIPPING FACILITY, FTRI 055 - MILTORMER MELLS) RFA (FTRI-042 - TAC VEHICLE MAINTENANCE SHOPS, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-040 - FORMER OLD FORMER STATION, FTRI-037 - FORMER LIVESTOCK DIPPING FACILITY, FTRI 055 - MAINPOST PX GAS STATION MELLS) RFA (FTRI-042 - FMR FIRE TRAINING AREA CAMP FUNSTON) <li< td=""><td>1003</td><td>8360 FUEL OIL UST)</td></li<>	1003	8360 FUEL OIL UST)
 RUFS (FTR-001 - CUSTER HILL SANITARY LANDFILL, FTR-028 - FMR FIRE TRAINING AREA CAMP FUNSTON FTR-032 - IMPACT ZONE) SI (FTR-004 - MAIN POST LANDFILL, FTR-016 - DRMO STORAGE AREA, FTR-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTR-019 - FORMER FIRE TRAINING AREA FTA-MAAF, FTR-020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL), FTR-026 - RANGE COMPLEX WU LAGOONS, FTR 028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTR-029 - OLD INCINERATOR SITE SE-CAMP FUNSTON, FTR-033 - DOUTHIT RANGE, FTR-036 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTR-037 - OLD WHITSIDE INCINERATOR AREA, FTR-038 - FORSYTH LANDFILLS, FTR-047 - FORMER LIVESTOCK DIPPING FACILITY, FTR-045 - SOUTHEAST FUNSTON LANDFILL (SISE) CS (FTR-1020 - WHITSIDE C/D LANDFILL-COSED, FTR-014 - FURNITURE REPAIR SHOPS (3), FTR-043 - FORM DS/CS Bidg 1693 Adj areas, FTR-048 - FRM DS/CS Bidg 1693 Adj areas, FTR-048 - FMR DS/CS Bidg 1693 Adj areas, FTR-048 - FMR DS/CS Bidg 1693 Adj areas, FTR-049 - FMR DS/CS Bidg 1693 Adj areas, FTR-049 - FMR DS/CS Bidg 1693 Adj areas, FTR-044 - FORMER DS/CS BIDG 1053 Adj areas, FTR-044 - FORMER DS/CS BIDG 1053 Adj areas, FTR-044 - FORMER DS/CS BIDG 1053 Adj areas, FTR-044 - FORMER DS/CS BIDG 1050 INCINERATOR AREA, FTR-040 - FORMER OL TESTING LAB (ANCHOR), FTR-043 - FORMER CAREA, FTR-044 - FORMER OL TESTING LAB (ANCHOR), FTR-043 - FORMER CAREA, FTR-044 - FORMER OL TESTING LAB (ANCHOR), FTR-043 - FORMER CAREA STATION/SGRARGES, FTR-044 - FORMER DIE TOSTING LAS (ANCHOR), FTR-043 - FORMER CAREA STATION/SGRARGES, FTR-044 - FORMER DIE TOSTING LAB (ANCHOR), FTR-043 - FORMER CAREA STATION/SGRARGES, FTR-044 - FORMER DIE DG, 727 WASTE PTI, FTR-045 - FORMER CAREA STATION/SGRARGES, FTR-044 - FORMER DEG 340 FUEL DIL VESTOCK DIPPING FACILITY, FTRI 055 - MILFORD LAKE CAMPGROUND/MARINA WELLS) RFA (FTR-042 - TAV CHICLE MAINTENANCE SHOPS, FTR-043 - FORMER PESTICIOES FACILITY, FTRI 055		
 FTR-032 - IMPACT ZONE) SI (FTR-043 - MAIN POST LANDFILL, FTR-016 - DRMO STORAGE AREA, FTR-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTR-019 - FORMER FIRE TRAINING AREA FTR-MAAF, FTR-1020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL), FTR-028 - RANGE COMPLEX WW LAGOONS, FTRI 028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTRI-029 - OLD INCINERATARAF, FTR-038 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTR-038 - FORS'TH LANDFILLS), FTRI-047 - FORMER LIVESTOCK DIPPING FACILITY, FTRI-055 - MILFORD LAKE CAMPCGOUNDMARINA WELLS) CS (FTRI-002 - WHITSIDE CONSOLIDATED MAINTENANCE FACILITY, FTRI-041 - FURNTURE REPARE SHOPS (3), FTRI-045 - PHOTO AND PRINT PLANTS, FTRI-046 - FRAM DS(GS Bid) 1693 Adj Areas, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-050 - PCB SPILL AREAS /TRANSFORMER SITES, FTRI-051 - BLDG, 727 WASTE PTT, FTRI-045 - FURNTON CE ASCILITY, FTRI-041 - FURNTON GW DETECTIONS, (FTRI-032 - INACTIVE LANDFILLS) - CAMP WHITSIDE INCINERATOR AREA, FTRI-031 - 545 A AREA SOLVENT DETECTIONS (354), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-031 - 545 A AREA SOLVENT DETECTIONS (354), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-040 - FORMER OL TESTING LAB (ANCHOR), FTRI-043 - FORMER GAS STATIONS/GARAGES, FTRI-044 - FORMER OL TESTING LAB (ANCHOR), FTRI-043 - FORMER GAS STATIONS/GARAGES, FTRI-044 - FORMER OL LATE CAMPGOUND/MARINA WELLS) RFA (FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON) IRA (FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON) IRA (FTRI-039 - PESTICIDE STORAGE FACILITY (MIXING), FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES, FTRI-042 - MANTEMANGE SATION / 218) PA (FTRI-042 - TMR FIRE TRAINING AREA CAMP FUNSTON) IRA (FTRI-042 - FMR FIRE TRAINING AREA CAMP FUNSTON) IRA (FTRI-042 - FMR FIRE TRAINING AREA CAMP FUNSTON) IRA (FTRI-042 - TMR FIRE TRAINING AREA CAMP FUNSTON) IRA (FTRI-042 - FMR FIRE TRAINING AREA CAMP FUNSTON) IRA		
 LCCATION (DRMO AREA 2), FTR-019 - FORMER FIRE TRAINING AREA FFTA-MAF, FTR-020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL), FTR-1028 - RANGE COMPLEX WW LAGOONS, FTRI 028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTRI-029 - OLD INCINERATOR SITE SE-CAMP FUNSTON, FTRI-033 - DOUTHIT RANGE, FTRI-036 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - ORSYTH LANDFILL(S), FTRI-047 - FORMER LIVESTOCK DIPPING FACILITY, FTRI-055 - MILFORD LAKE CAMPGROUND/MARINA WELLS) CS (FTRI-002 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA, FTRI-039 - CONSOLIDATED MAINTENANCE FACILITY, FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-043 - PHOTO AND PRINT PLANTS, FTRI-046 - FRMR DS/CS Bidg 1693 Adj Areas, FTRI-047 - FORMER PESTICIDES FACILITIES, FTRI-050 - PCB SPILL AREAS /TRANSPORMER SITES, FTRI-051 - BLDG, 727 WASTE PIT, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE) PA (FTRI-050 - CUSTER HILL ROAD RUBBLE DUMP, FTRI-006 - DRMO STORAGE AREA, FTRI-011 - CAMP FUNSTON GW DETECTIONS, G134), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-040 - FORMER OIL TESTING LAB (ANCHOR), FTRI-043 - FORMER GAS STATIONS/GARAGES, FTRI-044 - FORMER NULLENT DELAG CAMPR GUND/MARINA WELLS) RFA (FTRI-042 - TAC VEHICLE MAINTENANCE SHOPS, FTRI-047 - FORMER LIVESTOCK DIPPING FACILITY, FTRI-051 - BLDG, 727 WASTE PIT, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE) 1994 RFA (FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON) IRA (FTRI-030 - PESTICIDE STORAGE FACILITY (MIXING), FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES, FTRI-046 - MAINPOST PX GAS STATION/ 218) PA (FTRI-042 - TMC SAS STATION PX GAS STATION / 178) PA (FTRI-056 - MAINPOST PX GAS STATION, FTRI-072 - BLDG 8340 FUEL OIL UST) RD (FTRI-046 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST) RD (FTRI	R#F3	FTRI-001 - COSTER HILL SANITARY LANDFILL, FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTRI-032 - IMPACT ZONE)
 CS (FTRI-02 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA, FTRI-039 - CONSOLIDATED MAINTENANCE FACILITY, FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-045 - PHOTO AND PRINT PLANTS, FTRI-046 - FRMR D5/CS BIdg 1693 dareas, FTRI-045 - BLDG, 727 WASTE PIT, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE) PA (FTRI-005 - CUSTER HILL ROAD RUBBLE DUMP, FTRI-006 - DRMO STORAGE AREA, FTRI-011 - CAMP FUNSTON GW DETECTIONS, FTRI-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTRI-031 - 354 AREA SOLVENT DETECTIONS (354), FTRI-037 - DD WHITSIDE INCINERATOR AREA, FTRI-044 - FORMER OIL TESTING LAB (ANCHOR), FTRI-043 - FORMER GAS STATIONS/GARAGES, FTRI-044 - FORMER OIL TESTING LAB (ANCHOR), FTRI-043 - FORMER GAS STATIONS/GARAGES, FTRI-044 - FORMER ASPHALT PLANT (NEAR BLDG 354), FTRI-047 - FORMER LIVESTOCK DIPPING FACILITY, FTRI 055 - MILFORD LAKE CAMPGOUND/MARINA WELLS) RFA (FTRI-042 - TAC VEHICLE MAINTENANCE SHOPS, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI- 051 - BLDG. 727 WASTE PIT, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE) 1994 RA(C) (FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON) IRA (FTRI-030 - PESTICIDE STORAGE FACILITY (MXING), FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES, FTRI-060 - MAINPOST PX GAS STATION / 218) PA (FTRI-056 - ABANDONED GASOLINE LINE) ISC (FTRI-062 - TMP GAS STATION BLDG 384, FTRI-071 - FMR BLDG 2345 DISPENSING STATION) INV (FTRI-070 - FMR BLDG 2341 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST) RD (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-071 - FMR BLDG 2345 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-071 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-071 - FMR BLDG 1090 DISPENSING STATION, FTRI-073 - BLDG 8360 FUEL OIL UST) CAP (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG 8360 FUEL	SI	LOCATION (DRMO AREA 2), FTRI-019 - FORMER FIRE TRAINING AREA FFTA-MAAF, FTRI-020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL), FTRI-026 - RANGE COMPLEX WW LAGOONS, FTRI- 028 - FMR FIRE TRAINING AREA CAMP FUNSTON, FTRI-029 - OLD INCINERATOR SITE SE-CAMP FUNSTON, FTRI-033 - DOUTHIT RANGE, FTRI-036 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTRI- 037 - OLD WHITSIDE INCINERATOR AREA, FTRI-038 - FORSYTH LANDFILL(S), FTRI-047 - FORMER
 PA (FTRI-005 - CUSTER HILL ROAD RUBBLE DUMP, FTRI-006 - DRMO STORAGE AREA, FTRI-011 - CAMP FUNSTON GW DETECTIONS, FTRI-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTRI-031 - 354 AREA SOLVENT DETECTIONS (354), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-040 - FORMER OIL TESTING LAB (ANCHOR), FTRI-043 - FORMER GAS STATIONS/GARAGES, FTRI-044 - FORMER ASPHALT PLANT (NEAR BLDG 354), FTRI-047 - FORMER LIVESTOCK DIPPING FACILITY, FTRI 055 - MILFORD LAKE CAMPGROUND/MARINA WELLS) RFA (FTRI-042 - TAC VEHICLE MAINTENANCE SHOPS, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI- 051 - BLDG. 727 WASTE PIT, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE) 1994 RA(C) (FTRI-082 - FMR FIRE TRAINING AREA CAMP FUNSTON) IRA (FTRI-030 - PESTICIDE STORAGE FACILITY (MIXING), FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES, FTRI-060 - MAINPOST PX GAS STATION / 218) PA (FTRI-056 - ABANDONED GASOLINE LINE) ISC (FTRI-062 - TMP GAS STATION BLDG 388, FTRI-071 - FMR BLDG 2345 DISPENSING STATION) INV (FTRI-070 - FMR BLDG 2341 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST) RD (FTRI-061 - CUSTER HILL SANITARY LANDFILL) 1995 IMP(C) (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-071 - FMR BLDG 2345 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-071 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-071 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-071 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG 8360 FUEL OIL UST) CAP (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG 8360 FUEL OIL UST) RA(C) (FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-045 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-042 - FMR BLDG 1090 DISPENSING STATION, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE)<td>CS</td><td>(FTRI-002 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA, FTRI-039 - CONSOLIDATED MAINTENANCE FACILITY, FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-045 - PHOTO AND PRINT PLANTS, FTRI-046 - FRMR DS/GS BIdg 1693 Adj Areas, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-050 - PCB SPILL AREAS /TRANSFORMER SITES, FTRI-051 -</td>	CS	(FTRI-002 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA, FTRI-039 - CONSOLIDATED MAINTENANCE FACILITY, FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-045 - PHOTO AND PRINT PLANTS, FTRI-046 - FRMR DS/GS BIdg 1693 Adj Areas, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-050 - PCB SPILL AREAS /TRANSFORMER SITES, FTRI-051 -
RFA(FTRI-042 - TAC VEHICLE MAINTENANCE SHOPS, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-051 - BLDG. 727 WASTE PIT, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE)1994RA(C)(FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON)IRA(FTRI-030 - PESTICIDE STORAGE FACILITY (MIXING), FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES, FTRI-060 - MAINPOST PX GAS STATION / 218)PA(FTRI-056 - ABANDONED GASOLINE LINE)ISC(FTRI-062 - TMP GAS STATION BLDG 388, FTRI-071 - FMR BLDG 2345 DISPENSING STATION)INV(FTRI-070 - FMR BLDG 2341 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST)RD(FTRI-001 - CUSTER HILL SANITARY LANDFILL)1995IMP(C)(FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION, FTRI-071 - FMR BLDG 2345 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION, FTRI-071 - FMR BLDG 2345 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION, FTRI-071 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION, FTRI-071 - FMR BLDG 1090 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-071 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION, FTRI-073 - BLDG 8360 FUEL OIL UST)CAP(FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION)RA(C)(FTRI-002 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA, FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-045 - PHOTO AND PRINT PLANTS, FTRI-046 - FRMR DS/GS BIdg 1693 Adj Areas, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE)IRA(FTRI-027 - DRY CLEANING FACILITIES AREA)	PA	(FTRI-005 - CUSTER HILL ROAD RUBBLE DUMP, FTRI-006 - DRMO STORAGE AREA, FTRI-011 - CAMP FUNSTON GW DETECTIONS, FTRI-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTRI-031 - 354 AREA SOLVENT DETECTIONS (354), FTRI-037 - OLD WHITSIDE INCINERATOR AREA, FTRI-040 - FORMER OIL TESTING LAB (ANCHOR), FTRI-043 - FORMER GAS STATIONS/GARAGES, FTRI-044 - FORMER ASPHALT PLANT (NEAR BLDG 354), FTRI-047 - FORMER LIVESTOCK DIPPING FACILITY, FTRI-
RA(C)(FTRI-028 - FMR FIRE TRAINING AREA CAMP FUNSTON)IRA(FTRI-030 - PESTICIDE STORAGE FACILITY (MIXING), FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES, FTRI-060 - MAINPOST PX GAS STATION / 218)PA(FTRI-056 - ABANDONED GASOLINE LINE)ISC(FTRI-062 - TMP GAS STATION BLDG 388, FTRI-071 - FMR BLDG 2345 DISPENSING STATION)INV(FTRI-070 - FMR BLDG 2341 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST)RD(FTRI-001 - CUSTER HILL SANITARY LANDFILL)1995IMP(C)(FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION, FTRI-071 - FMR BLDG 2345 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG 8360 FUEL OIL UST)CAP(FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION)RA(C)(FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION)RA(C)(FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION)RA(C)(FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION)RA(C)(FTRI-001 - CUSTER HILL SANITARY LANDFILL)RFI/CMS(FTRI-001 - CUSTER HILL SANITARY LANDFILL)RFI/CMS(FTRI-002 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA, FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-045 - PHOTO AND PRINT PLANTS, FTRI-046 - FRMR DS/GS BIdg 1693 Adj Areas, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE)IRA(FTRI-027 - DRY CLEANING FACILITIES AREA)		(FTRI-042 - TAC VEHICLE MAINTENANCE SHOPS, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-
 IRA (FTRI-030 - PESTICIDE STORAGE FACILITY (MIXING), FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES, FTRI-060 - MAINPOST PX GAS STATION / 218) PA (FTRI-056 - ABANDONED GASOLINE LINE) ISC (FTRI-062 - TMP GAS STATION BLDG 388, FTRI-071 - FMR BLDG 2345 DISPENSING STATION) INV (FTRI-070 - FMR BLDG 2341 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST) RD (FTRI-001 - CUSTER HILL SANITARY LANDFILL) 1995 IMP(C) (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-075 - BLDG 8340 FUEL OIL UST, FTRI-071 - FMR BLDG 2345 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG 8360 FUEL OIL UST) CAP (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-001 - CUSTER HILL SANITARY LANDFILL) RFI/CMS (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-01 - CUSTER HILL SANITARY LANDFILL) RFI/CMS (FTRI-041 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-001 - CUSTER HILL SANITARY LANDFILL) RFI/CMS (FTRI-041 - FMR BLDG 1090 DISPENSING STATION, FTRI-045 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-001 - CUSTER HILL SANITARY LANDFILL) RFI/CMS (FTRI-041 - FMR BLDG 1090 DISPENSING STATION, FTRI-045 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-001 - CUSTER HILL SANITARY LANDFILL) RFI/CMS (FTRI-041 - FMR BLDG 1090 DISPENSING STATION, FTRI-045 - FMR BLDG 1190 DISPENSING STATION) RA((FTRI-027 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-045 - PHOTO AND PRINT PLANTS, FTRI-046 - FRMR DS/GS BIdg 1693 Adj Areas, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-045 - INACTIVE LANDFILLS - CAMP WHITSIDE) IRA (FTRI-027 - DRY CLEANING FACILITIES AREA) 		
 RANGES, FTRI-060 - MAINPOST PX GAS STATION / 218) PA (FTRI-056 - ABANDONED GASOLINE LINE) ISC (FTRI-062 - TMP GAS STATION BLDG 388, FTRI-071 - FMR BLDG 2345 DISPENSING STATION) INV (FTRI-070 - FMR BLDG 2341 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST) RD (FTRI-001 - CUSTER HILL SANITARY LANDFILL) 1995 IMP(C) (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION, FTRI-071 - FMR BLDG 2345 DISPENSING STATION, FTRI-072 - BLDG 8340 FUEL OIL UST, FTRI-073 - BLDG 8360 FUEL OIL UST) CAP (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-064 - FMR BLDG 1090 DISPENSING STATION, FTRI-065 - FMR BLDG 1190 DISPENSING STATION) RA(C) (FTRI-001 - CUSTER HILL SANITARY LANDFILL) RFI/CMS (FTRI-002 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA, FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-045 - PHOTO AND PRINT PLANTS, FTRI-046 - FRMR DS/GS Bidg 1693 Adj Areas, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE) IRA (FTRI-027 - DRY CLEANING FACILITIES AREA) 	RA(C)	
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RA(C)(FTRI-001 - CUSTER HILL SANITARY LANDFILL)RFI/CMS(FTRI-002 - WHITSIDE C/D LANDFILL-CLOSED, FTRI-012 - WASTE STORAGE DRMO SECONDARY AREA, FTRI-041 - FURNITURE REPAIR SHOPS (3), FTRI-045 - PHOTO AND PRINT PLANTS, FTRI-046 - FRMR DS/GS Bidg 1693 Adj Areas, FTRI-048 - FORMER PESTICIDES FACILITIES, FTRI-052 - INACTIVE LANDFILLS - CAMP WHITSIDE)IRA(FTRI-027 - DRY CLEANING FACILITIES AREA)	CAP	
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	IRA	
	SI	(FTRI-011 - CAMP FUNSTON GW DETECTIONS, FTRI-031 - 354 AREA SOLVENT DETECTIONS (354),
	4	

	FTRI-044 - FORMER ASPHALT PLANT (NEAR BLDG 354), FTRI-057 - 6200 AREA FUEL OIL LINE (ANCHOR))
RI/FS	(FTRI-015 - FORMER DRMO LOCATION (DRMO AREA 2), FTRI-037 - OLD WHITSIDE INCINERATOR
	AREA, FTRI-047 - FORMER LIVESTOCK DIPPING FACILITY, FTRI-055 - MILFORD LAKE CAMPGROUND/MARINA WELLS)
INV	(FTRI-060 - MAINPOST PX GAS STATION / 218, FTRI-061 - FORMER GAS SERVICE STATION BLDG 354,
	FTRI-062 - TMP GAS STATION BLDG 388, FTRI-066 - FMR BLDG 1245 DISPENSING STATION, FTRI-067
	- FMR BLDG 1539 DISPENSING STATION, FTRI-068 - FMR BLDG 1637 DISPENSING STATION, FTRI-069
•	- FMR BLDG 1890 DISPENSING STATION, FTRI-071 - FMR BLDG 2345 DISPENSING STATION, FTRI-073
1996	- BLDG 8360 FUEL OIL UST)
RI/FS	(FTRI-003 - SOUTHWEST FUNSTON LANDFILL)
INV	(FTRI-053 - POL TANK FARM, FTRI-063 - FMR BLDG 1044 DISPENSING STATION)
SI	(FTRI-056 - ABANDONED GASOLINE LINE)
IMP(C)	(FTRI-070 - FMR BLDG 2341 DISPENSING STATION)
RD	(FTRI-003 - SOUTHWEST FUNSTON LANDFILL)
1997	
RI/FS	(FTRI-004 - MAIN POST LANDFILL, FTRI-030 - PESTICIDE STORAGE FACILITY (MIXING))
CAP	(FTRI-062 - TMP GAS STATION BLDG 388, FTRI-063 - FMR BLDG 1044 DISPENSING STATION, FTRI-066
	- FMR BLDG 1245 DISPENSING STATION, FTRI-067 - FMR BLDG 1539 DISPENSING STATION, FTRI-068
	- FMR BLDG 1637 DISPENSING STATION, FTRI-069 - FMR BLDG 1890 DISPENSING STATION)
IRA	(FTRI-003 - SOUTHWEST FUNSTON LANDFILL , FTRI-062 - TMP GAS STATION BLDG 388, FTRI-063 -
RA(C)	FMR BLDG 1044 DISPENSING STATION) (FTRI-003 - SOUTHWEST FUNSTON LANDFILL)
INV .	(FTRI-054 - CUSTER HILL PX USTS BLDG 5320)
1998	
RI/FS	(FTRI-006 - DRMO STORAGE AREA, FTRI-020 - INDUSTRIAL WASTEWATER SYSTEM (CUSTER HL))
RFI/CMS	(FTRI-050 - PCB SPILL AREAS /TRANSFORMER SITES, FTRI-051 - BLDG, 727 WASTE PIT)
·SI	(FTRI-009 - OB/OD GROUND (RANGE 16))
2000	
RI/FS	(FTRI-035 - NON-IMPACT AREA SMALL ARMS RANGES)
IRA	(FTRI-029 - OLD INCINERATOR SITE SE-CAMP FUNSTON)
2001	
IRA	(FTRI-036 - SOUTHEAST FUNSTON LANDFILL (ANCHOR), FTRI-038 - FORSYTH LANDFILL(S))
PA	(FTRI-074 - WWI INCINERATOR, NW CAMP FUNSTON)
RI/FS	(FTRI-038 - FORSYTH LANDFILL(S))
2003	·
RI/FS	(FTRI-029 - OLD INCINERATOR SITE SE-CAMP FUNSTON)
IRA	(FTRI-019 - FORMER FIRE TRAINING AREA FFTA-MAAF)
2005	
RA(C)	(FTRI-019 - FORMER FIRE TRAINING AREA FFTA-MAAF)
RI/FS	(FTRI-011 - CAMP FUNSTON GW DETECTIONS, FTRI-019 - FORMER FIRE TRAINING AREA FFTA-MAAF)
IRA	(FTRI-057 - 6200 AREA FUEL OIL LINE (ANCHOR))
LTM	(FTRI-011 - CAMP FUNSTON GW DETECTIONS, FTRI-062 - TMP GAS STATION BLDG 388, FTRI-063 -
	FMR BLDG 1044 DISPENSING STATION, FTRI-066 - FMR BLDG 1245 DISPENSING STATION, FTRI-068 -
CAP	FMR BLDG 1637 DISPENSING STATION) (FTRI-053 - POL TANK FARM)

2006	
RI/FS	(FTRI-031 - 354 AREA SOLVENT DETECTIONS (354))
2007	
LTM	(FTRI-022 - FORMER WWTP & SLUDGE BEDS (ANCHOR) , FTRI-038 - FORSYTH LANDFILL(S))
RA(C)	(FTRI-031 - 354 AREA SOLVENT DETECTIONS (354))
RD	(FTRI-031 - 354 AREA SOLVENT DETECTIONS (354))
2008	
RD	(FTRI-027 - DRY CLEANING FACILITIES AREA)
RA(C)	(FTRI-027 - DRY CLEANING FACILITIES AREA)
LTM	(FTRI-040 - FORMER OIL TESTING LAB (ANCHOR), FTRI-047 - FORMER LIVESTOCK DIPPING FACILITY)
RI/FS	(FTRI-027 - DRY CLEANING FACILITIES AREA , FTRI-057 - 6200 AREA FUEL OIL LINE (ANCHOR))
2009	
RI/FS	(FTRI-036 - SOUTHEAST FUNSTON LANDFILL (ANCHOR))
RD	(FTRI-057 - 6200 AREA FUEL OIL LINE (ANCHOR))
IRA	(FTRI-056 - ABANDONED GASOLINE LINE)
2010	
RA(C)	(FTRI-057 - 6200 AREA FUEL OIL LINE (ANCHOR))
LTM .	(FTRI-030 - PESTICIDE STORAGE FACILITY (MIXING))
RA(O)	(FTRI-003 - SOUTHWEST FUNSTON LANDFILL)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates Site ID Site Name ROD/DD Title

ROD/DD Date

Final RA(C) Completion Date: 201502

Schedule for Next Five-Year Review: 2012

Estimated Completion Date of IRP at Installation (including LTM phase): 204003

FORT RILEY IRP Schedule

							= phase i	underway
SITE ID	SITE NAME	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
FTRI-001	CUSTER HILL SANITARY LANDFILL	RA(O)						
SITE ID FTRI-003	SITE NAME SOUTHWEST FUNSTON LANDFILL	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
		LTM						
SITE ID FTRI-009	SITE NAME OB/OD GROUND (RANGE 16)	PHASE RI/FS	FY12	FY13	FY14	FY15	FY16	FY17+
1 111-005	OBIOD CITCOIND (INAIGE 10)	RD						
		RA(C)						
		RA(O)				1		
		LTM						
SITE ID	SITE NAME	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
FTRI-027	DRY CLEANING FACILITIES AREA	RA(O)						
		LTM						
SITE ID	SITE NAME	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
FTRI-031	354 AREA SOLVENT DETECTIONS	RA(O)						
	(354)	LTM						
SITE ID	SITE NAME	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
FTRI-056	ABANDONED GASOLINE LINE	RA(O)						
		LTM						
SITE ID	SITE NAME	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
FTRI-057	6200 AREA FUEL OIL LINE	RA(O)						
	(ANCHOR)	LTM						
SITE ID	SITE NAME	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
FTRI-074	WWI INCINERATOR, NW CAMP FUNSTON	RI/FS						
	FUNSTON	RD						
		RA(C)				Sec. 1		
		RA(O)						

FORT RILEY

Army Defense Environmental Restoration Program Military Munitions Response Program

MMRP Summary

FY

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 4/2

Installation Site Types with Future and/or Underway Phases

Landfill (FTRI-003-R-01) Small Arms Range (FTRI-001-R-02)

Most Widespread Contaminants of Concern

Munitions and explosives of concern (MEC), Munitions constituents (MC)

Media of Concern

1

1

Groundwater, Sediment, Soil, Surface Water

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

 Site ID
 Site Name
 Action
 Remedy

 N/A
 Remedy
 N/A
 N/A

Duration of MMRP

Date of MMRP Inception 200303

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201309/201309 Date of MMRP completion including Long Term Management (LTM): 201509



MMRPContamination Assessment

Contamination Assessment Overview

The Military Munitions Response Program (MMRP) manages the environmental and health issues associated with MC and MEC. In 2000, FTRI completed the advance range survey followed by an active/inactive (A/I) range inventory in 2002. The closed, transferring, and transferred range (CTT)/site inventory report was completed in 2003. That report identified the Sherman Heights Small Arms Range (SHSAR) and the Southeast Funston landfill (SEFL) incinerator site as inactive ranges requiring further investigation. In April 2005 the historical records review (HRR) on these two sites was completed. The SI work plan was completed July 1, 2005, and the SI was initiated in 2005.

There is a low potential for MEC, MC or UXO at the two sites. Sherman Heights is a small arms range that is wholly contained on the installation. In 1994, lead-contaminated soil was removed from Sherman Heights (Colyer Manor) under CERCLA. The SEFL incinerator site was transferred to the Kansas Department of Wildlife and Parks (KDWP). In 1999, lead-contaminated soil and UXO were removed from the SEFL incinerator site. In summer 2008, the state of Kansas performed a UXO clearance in association with road construction and found no UXO.

There is a third site near the Camp Forsyth Landfill Area 2 contained in the sandbars within the Republican River. The site contains munitions debris. There have been three occasions where UXO removal or blow-in-place was conducted. The site is on the installation boundary and can be accessed by the general public in a relatively uncontrolled manner.

Cleanup Exit Strategy

Future actions will be determined on the basis of the results of the RI/FS. MC and MEC soil removal, off-site soil disposal, institutional controls, and monitoring may be required.

MMRP Previous Studies

	Title	Author	Date
1993			
	Action Memorandum for Removal Action Sensitive-	Fort Riley	DEC-1993
	Receptor Lead Site - Colyer Manor Area, Fort Riley		
	Military Installation, Fort Riley, Kansas		
1994			1
	Work Plan for Rapid Response Removal of	OHM Corporation	JAN-1994
	Contaminated Soils Pesticide Storage Facility and		
	Colyer Manor Sites, Fort Riley, Kansas		
	Project Report for Rapid Response Removal of	OHM Corporation	JUN-1994
	Contaminated Soils Pesticide Storage Facility and		
	Colyer Manor Sites, Fort Riley, Kansas (5 Volumes),		
2002			t
	US Army Active/Inactive (A/I) Range Inventory Range	Colorado State	MAR-2002
	Inventory Binder Fort Riley, Kansas	University/FORSCOM	
2003	· · · · · · · · · · · · · · · · · · ·		
	Closed, Transferring, and Transferred Range/Site	e2M	OCT-2003
	Inventory Report Fort Riley, Kansas		
2005			
	Stakeholder Final of the Military Munitions Response	e2m	APR-2005
	Program Historical Records Review Fort Riley, Kansas		
	Work Plan Military Munitions Response Program Site	e2m	JUL-2005
	Inspection Munitions Response Sites Fort Riley -		
	Kansas		
2006	· · · · · · · · · · · · · · · · · · ·		
	Site Inspection Report Military Munitions Response	e2m	MAY-2006
	Program Site Inspection Fort Riley, Kansas		
2010		I	
	Work Plan MMRP RI/FS Sherman Heights Small Arms	Bay West	APR-2010
	Range Impact Slope (FTRI-001-R-02) Junction City,		
	Kansas		

FORT RILEY

Military Munitions Response Program

Site Descriptions

Site ID: FTRI-001-R-02 Site Name: SHSAR Impact Slope



Regulatory Driver: CERCLA

MRSPP Score: 04

Contaminants of Concern: Munitions and explosives of concern (MEC), Munitions constituents (MC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA	200303	200310
SI	200406	200605
RI/FS	200708	201208
RD	201209	201301
RA(C)	201207	201309

RIP Date: N/A

RC Date: 201309

SITE DESCRIPTION

The SHSAR Impact Slope MRS covers approximately 52 acres and is located above the Colyer Manor housing area in Camp Forsyth. Small arms ranges were operational from the 1880s until the 1980s. Pistols firing nine millimeter (mm), .22 caliber, .38 caliber, .45 caliber, small caliber (subcaliber) qualification anti-tank and .22 caliber (subcaliber) anti- aircraft machine guns were used on these ranges. During the 2005 site investigation fieldwork, four-inch practice mortars were discovered.

Lead contamination was the focus at the SHSAR Firing Points MRS, which is co-located with the Colyer Manor housing. In 1994 under the IRP, 1500 cu yds of lead-contaminated soil were removed from a target area near Building 3135. This site received clean closure in a 1994 SI report. Negative lead detections from confirmation soil sampling conducted during the 2005 MMRP Site Investigation fieldwork resulted in clean closure under the MMRP.

In 2010 an RI work plan was approved by the USEPA and the KDHE.

In 2010 and 2011, the site was characterized for MEC using a combination of digital and analog geophysical technologies. Anomalies were excavated and evaluated.

CLEANUP/EXIT STRATEGY

Depending on the presence of live munitions and the RI report risk assessment, an FS, PP, and ROD may be prepared.

Based on regulatory review additional soil removal may be required.

Site ID: FTRI-003-R-01 Site Name: Camp Forsyth Landfill Area 2 MRS



Regulatory Driver: CERCLA

MRSPP Score: 04

Contaminants of Concern: Munitions and explosives of concern (MEC), Munitions constituents (MC)

Media of Concern: Sediment, Surface Water

Phases	Start	End
	200303	
SI	200406	200605
RI/FS	200708	201208
RD	201209	201211
RA(C)	201107	201212
LTM	201301	201509

RIP Date: N/A

RC Date: 201212

SITE DESCRIPTION

The Camp Forsyth Landfill Area 2 MRS lies along the southwestern boundary of FTRI and covers approximately 30 acres of sandbars and riverbed in the Republican River. The River Walk, a nature trail, passes by the site. A series of warning signs are posted between the site and the River Walk to warn the public of the possible presence of munitions. During the winter months, bald eagles pass over the site as they travel between their roosting site downstream on the Kansas River and their feeding areas upstream on Milford Lake.

Munitions debris was found on a downstream sandbar after the 1993 regional flood. In 1994, this munitions debris consisting of 3.5- and 2.36-inch rockets, M1 mines, and expended small arms ammunitions was destroyed. In 2000 and 2001, a 1500-foot revetment was constructed to stabilize the bank on the FTRI side of the river. Between 2002 and 2009, additional debris, 2.36-inch rockets, and expended small arms ammunition has been found on the sandbar adjacent to the revetment during annual inspections.

In 2011, an RI work plan was approved by the USEPA and the KDHE. In 2011, the site was characterized for MEC using a combination of digital and analog geophysical technologies. Anomalies were excavated and evaluated.

CLEANUP/EXIT STRATEGY

In 2012, an RI report will be prepared. Depending on the presence of live munitions and the RI report risk assessment, an FS, a PP, and a ROD may be prepared.

Based on regulatory review additional soil removal may be required.

Site ID	Site Name	NFA Date	Documentation
FTRI-001-R- 01	SHERMAN HEIGHTS SMALL ARMS	200605	Made RC after the June 2006 Site Investigation based on no MEC or MC Contamination.
FTRI-002-R- 01	SOUTHEAST FUNSTON LANDFILL	200605	Made RC after the June 2006 Site Investigation based on no MEC or MC Contamination.

MMRP Schedule

Date of MMRP Inception 200303

Past Phase Completion Milestones

2004

PA

(FTRI-001-R-01 - SHERMAN HEIGHTS SMALL ARMS , FTRI-001-R-02 - SHSAR Impact Slope, FTRI-002-R-01 - SOUTHEAST FUNSTON LANDFILL, FTRI-003-R-01 - Camp Forsyth Landfill Area 2 MRS)

2006 SI

(FTRI-001-R-01 - SHERMAN HEIGHTS SMALL ARMS , FTRI-001-R-02 - SHSAR Impact Slope, FTRI-002-R-01 - SOUTHEAST FUNSTON LANDFILL, FTRI-003-R-01 - Camp Forsyth Landfill Area 2 MRS)

Additional Past Phase Completion Milestones

2003

Preliminary Assessment, Sites FTRI-001-R-01, FTRI-001-R-02, FTRI-002-R-01, FTRI-003-R-01, October

2005

Site Investigation, Sites FTRI-001-R-01, FTRI-001-R-02, FTRI-002-R-01, FTRI-003-R-01, December

Projected Phase Completion Milestones

See attached schedule

FTRI-003-R-01

Projected Record	of Decision (ROD	/Decision Document (DD) Approval Dates
Site ID	Site Name	ROD/DD Title

Camp Forsyth Landfill Area 2 MRS

FTRI-001-R-02 SHSAR Impact Slope

SHSAR Impact Slope Decision Document CFLA2 Decision Document ROD/DD Date 20110930

20130930

Final RA(C) Completion Date: 201309

Schedule for Next Five-Year Review: 2012

Estimated Completion Date of MMRP at Installation (including LTM phase): 201509

FORT RILEY MMRP Schedule

							= phase u	underway
SITE ID	SITE NAME	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
FTRI-001-R-02	SHSAR Impact Slope	RI/FS				1		
		RD		1.07 A. 1.0				
		RA(C)						
SITE ID	SITE NAME	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
FTRI-003-R-01	Camp Forsyth Landfill Area 2 MRS	RI/FS						
		RD						
		RA(C)						
		LTM						



FORT RILEY

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Army Defense Environmental Restoration Program Compliance Restoration

CR Summary

Installation 1	otal Army Environmental D)atabase-Rest	oration (AEDB-R) Sites/Closeout Sites (Count: 3/1
	Site Types with Future and/	or Underway	Phases	
	ntaminated Ground Water (CC-FTRI-01)			
1 Un	derground Storage Tank			
	(CC-FTRI-09)			
Most Widesp	read Contaminants of Con	cern		÷
Petroleum,	Oil and Lubricants (POL)			
Media of Cor	icern			
Groundwat	er			
Completed R Site ID	emedial Actions (Interim R Site Name	emedial Actio Action	ns/ Final Remedial Actions (IRA/FRA)) Remedy	FY
CC-FTRI-01	POL Tank Farm Site	IRA	FREE PRODUCT RECOVERY	2010
Duration of C	R	•		
Date of CR In	ception: 199104			
Date of CR In	ception: 199104	P)/Pesnonse (Complete (RC): 201809/201809	

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC):201809/201809Date of CR completion including Long Term Management (LTM):201809

CRContamination Assessment

Contamination Assessment Overview

Environmental restoration activities include the IRP and MMRP. On Dec. 29, 2008, the Office of the Deputy Under Secretary of Defense for Installations and Environment [ODUSD (I&E)] issued an interim policy for Defense Environmental Restoration Program (DERP) eligibility that rescinded the 1986 eligibility date for the IRP and the 2002 eligibility date for the MMRP. This made many sites previously addressed in the Army's Compliance-related Cleanup (CC) program eligible for the DERP. Sites that are now eligible for the MMRP have been migrated from Army Environmental Database - Compliance-related Cleanup (AEDB-CC) and given the naming convention of other munitions response (MR) sites. The newly eligible non-MR type sites are considered to be installation restoration (IR) sites; however, the newly eligible sites are being coded as compliance restoration (CR) in AEDB-R to distinguish them from the original IR sites and IR metrics.

The CR sites have POL contamination in soil and GW resulting from fuel releases at a petroleum storage facility and fuel dispensing facilities.

Cleanup Exit Strategy

Conduct GW monitoring until the active facilities (CC-FTRI-01 POL Tank Farm and CC-FTRI-09 Fuel Dispensing Stations at 388 and 5320) cease operations.

Evaluate sites to develop cleanup/exit strategies.

Obtain site closures from the KDHE and the NCDO.

Abandon wells when GW monitoring is complete.

CR Previous Studies

Title Author Date Quality Control Summary Report May 2008 Burns & McDonnell/ECC JUN-2008 Groundwater Sampling Event at the Petroleum, Oil, and Lubricant Site 5320 Fort Riley, Kansas Quality Control Summary Report SVE/DPE and Burns & McDonnell/ECC **DEC-2008** November 2008 Groundwater Sampling Event at the Petroleum, Oil, and Lubricant Site 388 Fort Riley, Kansas Data Summary Report for the SVE/DPE Pilot Test and Burns & McDonnell/ECC MAR-2009 the November 2008 Groundwater Sampling Event for the POL Site 388 at Fort Riley, Kansas 2008 Data Summary Report Product Recovery Burns & McDonnell/ECC JUN-2009 Remediation System for the POL Tank Farm Custer Hill Fort Riley, Kansas Work Plan Fuels Sites Environmental Investigation Burns & McDonnell/Malcolm FEB-2010 (Multiple Sites) at Fort Riley, Kansas (388, 1460, 2597, Pirnie 5320) Quality Control Summary Report June 2010 Burns & McDonnell/ECC AUG-2010 Groundwater Sampling Event at the Petroleum, Oil, and Lubricant Tank Farm Site Fort Riley, Kansas Site Recommendation Reports Building 388 Building Burns & McDonnell/Louis SEP-2010 1460 Building 5320 Data Summary Report Buildings Berger 388 and 5320 Fuels Sites Environmental Investigation

at Fort Riley, Kansas (2597)

2008

2009

2010

FORT RILEY

Compliance Restoration

Site Descriptions

Site ID: CC-FTRI-01 Site Name: POL Tank Farm Site



Regulatory Driver: RCRA Contaminants of Concern: Petroleum, Oil and Lubricants (POL)

Media of Concern: Groundwater

Phases	Start	End		
ISC	199104	200509		
INV	199809	201809		
	200709			

RIP Date: N/A

RC Date: 201809



CC-FTRI-01 (alias FTRI-053) is an active POL Tank Farm, located on First Division Road on the eastern side of the Custer Hill Troop Area. The construction of the POL Tank Farm facility began in 1987 and was completed in 1989. The facility was constructed to consolidate storage of petroleum products for the Custer Hill Troop Area. The products currently stored at the POL Tank Farm in six ASTs consist of motor gasoline (MOGAS), diesel, and slop oil (recyclable liquid petroleum products). The site has been shifted from AEDB-CC to the CR program.

POL records indicate that spills varying in magnitude have occurred since the facility began operations. Free-product recovery events have resulted in only partial recovery. The POL Tank Farm has undergone several phases of an ongoing site investigation that found measurable free-product and levels of benzene, toluene, ethylbenzene, and xylene (BTEX) that exceed MCLs in the GW. Low concentrations of fuel-related contaminants were also detected in some sediment samples collected from an adjacent ephemeral streambed.

Manual removal of free-product has reduced, but not eliminated, the presence of free-product within the POL Tank Farm.

In March 2008, the belt skimmer system was removed based on its lack of effectiveness and new product collection systems were installed in two wells. A total of 49 gallons of free-product had been recovered through 2009. In 2011, these systems were deactivated and the product recovery pumps were removed to storage.

Annual GW sampling is required as long as free-product is present at the site. Semiannual free-product recovery by manual bailing will continue as needed.

CLEANUP/EXIT STRATEGY

Annual GW sampling events will be the basis for future decisions.

Upon ceasing operations, develop an exit strategy.

Well abandonment will occur when all GW monitoring is completed.

Site ID: CC-FTRI-09 Site Name: Fuel Dispensing Stations



Regulatory Driver: RCRA Contaminants of Concern: Petroleum, Oil and Lubricants (POL)

Media of Concern: Groundwater

Phases	Start	End
ISC	200810	200811
INV	200812	201809
RIP Date:	N/A	

RC Date: 201809

SITE DESCRIPTION

This site consists of two active fuel dispensing stations. Building 388 (FTRI-062) is a transportation motor pool dispensing station. In 2008, approximately 32 gallons of free-product were recovered from the site and the GW has benzene contamination above the MCL of five ug/L.

Building 5320 (FTRI-054) is an Army/Air Force Exchange Services service station that also has benzene GW contamination above the MCL. Both sites are in the "monitor" status in the KDHE's Buried Tank Leak Assessment database. The site has been transferred from the AEDB-CC to the CR program.

The regulator has requested additional work to define the extent of the GW plume/free-product and continued GW monitoring and bailing at both sites.

Once either facility is shut down, the site data will be analyzed to determine whether further investigation is required and what may be required as cleanup actions.

CLEANUP/EXIT STRATEGY

Conduct GW sampling in 2012, 2015, and 2018.

Upon site ceasing operations, develop a cleanup/exit strategy.

Well abandonment will occur when all GW monitoring is completed.

Site ID	Site Name	NFA Date	Documentation
CC-FTRI-10	Fuel USTs (Active & Abandoned)	201009	Site Recommendation Report for Building 1460 and 2597 USTs completed Sep 14, 2010. KDHE approved site closure in September 28, 2010 letter.

CR Schedule

Date of CR Inception: 199104

Past Phase Completion Milestones

2005	
ISC	(CC-FTRI-01 - POL Tank Farm Site)
2009	
ISC	(CC-FTRI-09 - Fuel Dispensing Stations, CC-FTRI-10 - Fuel USTs (Active & Abandoned))
2010	
INV	(CC-FTRI-10 - Fuel USTs (Active & Abandoned))
IRA	(CC-FTRI-01 - POL Tank Farm Site)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

To Be Determined

Final RA(C) Completion Date:

Schedule for Next Five-Year Review: 2012

Estimated Completion Date of CR at Installation (including LTM phase): 201809

FORT RILEY CR Schedule

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SITE ID	SITE NAME	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
CC-FTRI-01	POL Tank Farm Site	INV						
SITE ID	SITE NAME	PHASE	FY12	FY13	FY14	FY15	FY16	FY17+
CC-FTRI-09	Fuel Dispensing Stations	INV						



Community Involvement

Technical Review Committee (TRC): 199201 Community Involvement Plan (Date Published): 200509

Restoration Advisory Board (RAB): RAB established 199709

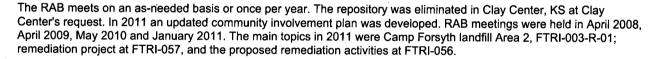
RAB Adjournment Date: N/A RAB Adjournment Reason: None

Additional Community Involvement Information

On Sept. 30, 1997, FTRI held its orientation meeting for members of the community who were interested in participating on a RAB. Adjacent landowners, local environmental groups, local college professors, mayors and other public officials, members of the local Chambers of Commerce, and select individuals recommended to the Directorate of Environment and Safety were invited to the orientation meeting by direct mail. Newspaper advertisements and television and radio announcements were also used to announce the formation of the RAB.

Approximately 20 people attended the orientation meeting. If they had not completed and returned an application beforehand, interested community members were asked to complete an application, a biographical information form and a demographic information form. A community co-chair was elected by the community representatives who were in attendance. The low number of applications received at that time made it possible to appoint everyone that applied to be a member of the RAB.

The current RAB members include citizens from Riley and Geary Counties in addition to the USEPA, the KDHE and representatives from the Geary County Extension Office and the city of Ogden (former mayor).



Over the next year RAB members will continue to gain knowledge of FTRI's sites and regulatory issues, review documents, provide technical advice, and participate in formal public comment period activities.

Administrative Record is located at

407 Pershing Court Fort Riley, KS 66442 (785) 239-3194/8536/3343

Information Repository is located at

Dorothy Bramlage Public Library 230 West Seventh Street Junction City, KS 66441 (785) 238-4311

Manhattan Public Library 629 Poyntz Avenue Manhattan, KS 66502 (785) 776-4741

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

Potential TAPP: N/A

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