FY2015

FORT DRUM

Army Defense Environmental Restoration Program
Installation Action Plan

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Statement of Purpose

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

In an effort to coordinate planning information between the restoration manager, the US Army Environmental Command (USAEC), Fort Drum (FTD), 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

- AAFES Army and Air Force Exchange Service
- AAS Aquifer Air Sparging
- AEDB-CC Army Environmental Database Compliance-related Cleanup
- AEDB-R Army Environmental Database Restoration
 - AOC Area of Concern
 - ASL Airfield Sanitary Landfill
 - BTEX Benzene, Toluene, Ethylbenzene, Xylenes
 - CC Compliance-related Cleanup
 - CCAR Comprehensive Contamination Assessment Report
 - CDAP Chemical Data Acquisition Plan
 - CMI(C) Corrective Measures Implementation Construction
- CMI(O) Corrective Measures Implementation Operations
 - CMS Corrective Measures Study
 - **CR** Compliance Restoration
 - **DD** Decision Document
- DERP Defense Environmental Restoration Program
- DES Design
- DGS Data Gap Study
- DoD Department of Defense
- DPE Dual Phase Extraction
- EOD Explosive Ordnance Disposal
- EPR Environmental Program Requirements
- ER,A Environmental Restoration, Army
- FIP Field Investigation Plan
- FRA Final Remedial Action
- FS Feasibility Study
- FTD Fort Drum
- FTS Focused Technical Selection
- FY Fiscal Year
- GIS Geographical Information System
- GW Groundwater
- HFAC Hancock Field Army Complex
- HTRW Hazardous, Toxic, and Radioactive Waste
 - IAP Installation Action Plan
- ICMS Interim Corrective Measures Study
 - ID Identification
- IDW Investigation Derived Waste
- IMCOM Installation Management Command
 - IR Installation Restoration
 - IRA Interim Remedial Action
 - IRP Installation Restoration Program
 - ISCO In situ Chemical Oxidation
 - K thousand
 - kg kilograms
- LNAPL Light Non-Aqueous Phase Liquid

Acronyms

- LTM Long-Term Management
- LUC Land Use Control
- LUST Leaking Underground Storage Tank
 - mg milligram
- mg/l milligram per liter
- MMRP Military Munitions Response Program
 - MNA Monitored Natural Attenuation
 - MPE Multi-Phase Extraction
 - MR Munitions Response
- MTBE Methyl Tertiary-Butyl Ether
- MW/PZ Monitoring Well/Piezometer
 - N/A Not Applicable
 - NFA No Further Action
- NJANG New Jersey Air National Guard
 - NPL National Priorities List
- NYANG New York Air National Guard
- NYCRR New York Codes, Rules and Regulations
 - NYS New York State
- NYSDEC New York State Department of Environmental Conservation
 - O&M Operations and Maintenance
- ODUSD(I&E) Office of the Deputy Under Secretary of Defense for Installations and Environment
 - ORC Oxygen Releasing Compound
 - OSL Old Sanitary Landfill
 - PAH Polycyclic Aromatic Hydrocarbons
 - PBA Performance-Based Acquisition
 - PCB Polychlorinated Biphenyl
 - PCE Tetrachloroethylene
 - POL Petroleum, Oil and Lubricants
 - RA Remedial Action
 - RA(C) Remedial Action Construction
 - RA(O) Remedial Action Operations
 - RAB Restoration Advisory Board
 - RC Response Complete
 - RCRA Resource Conservation and Recovery Act
 - RD Remedial Design
 - RFA RCRA Facility Assessment
 - RI Remedial Investigation
 - RIP Remedy-in-Place
 - ROD Record of Decision
 - RRSE Relative Risk Site Evaluation
 - SAGE Surface Air Ground Environment Complex
 - SI Site Inspection
 - SOW Scope of Work
 - SSI Site Screening Inspection
 - SVE Soil Vapor Extraction

Acronyms

SVOC Semi Volatile Organic Compound

SW Surface Water

SWMU Solid Waste Management Unit

TAPP Technical Assistance for Public Participation

TBD To Be Determined

TRC Technical Review Committee

USACE US Army Corps of Engineers

USAEC US Army Environmental Command

USAEHA US Army Environmental Hygiene Agency

USAG US Army Garrison

USAR US Army Reserves

USATHAMA US Army Toxic and Hazardous Materials Agency

USEPA US Environmental Protection Agency

UST Underground Storage Tank

UVB Air Sparging Bioventing technology, "Unterdruck-Verdampfer-Brunnen"

VOC Volatile Organic Compound

WET Wetlands Evaluation Technique

WWII World War II

Installation Information

Installation Locale

Installation Size (Acreage): 108737

City: Fort Drum

County: Jefferson, Lewis

State: New York

Other Locale Information

FTD is located in northern New York state, approximately 16 kilometers northeast of Watertown, in Jefferson and Lewis counties, and it borders St. Lawrence County. Seven small towns with populations between 2,000 and 8,000 each border the installation. Approximately 31,000 military personnel, their dependents, and civilian employees reside and/or work at FTD on a daily basis. The installation, which is roughly rectangular, consists of 108,737 acres measuring 10 kilometers wide and 32 kilometers long, making it the largest Army installation in the northeast.

Installation Mission

US Army Garrison (USAG) FTD's mission is provide Best in Army services and infrastructure for our Soldiers, families and civilians who support our nation during a time of persistent conflict.

Lead Organization

IMCOM

Lead Executing Agencies for Installation

USACE

USAEC

Regulator Participation

Federal US Environmental Protection Agency (USEPA), Region II

State New York State Department of Environmental Conservation (NYSDEC)

National Priorities List (NPL) Status

FORT DRUM is not on the NPL

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

The community has expressed no sufficient, sustained interest in a RAB.

Installation Program Summaries

IRP

Primary Contaminants of Concern: Metals, Petroleum, Oil and Lubricants (POL), Polycyclic Aromatic Hydrocarbons

(PAH), Volatiles (VOC)

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

CR

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

Affected Media of Concern: Groundwater, Soil

5-Year / Periodic Review Summary

5-Year / Periodic Review Summary

Status	Start Date	End Date	End FY
Underway	201303	201512	2016

5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
FTD-007 Area 3805/OSL Final CMS Letter	FTD-007
FTD-012 Abandoned Landfill near Deferiet	FTD-001, FTD-002, FTD-003, FTD-004, FTD-005, FTD-006, FTD-007, FTD-008, FTD-010, FTD-011, FTD-012, FTD-013, FTD-014, FTD-020, FTD-022, FTD-027, FTD-028, FTD-030B, FTD-030C, FTD-031, FTD-032, FTD-033, FTD-072, FTD-073, FTD-074, FTD-075, FTD-076, FTD-077, FTD-079, FTD-081, FTD-082, FTD-083, FTD-085, FTD-086, FTD-088,
	FTD-089, FTD-090, FTD-092, FTD-094, FTD-111, FTD-112
FTD-025 Old Hosford Swimming Pool	FTD-025
FTD-030F Area 3805/OSL Final CMS Letter	FTD-030F
FTD-074 Building P-44 DOL Battery Shop	FTD-074
FTD-076 BLDG T-4002	FTD-076
FTD-077 Building S-2005 Closure	FTD-077
FTD-083 Paint Dump Site	FTD-083
FTD-085 Old POL Drying Beds	FTD-085
FTD-088 BLDG T-4006 UST	FTD-088
FTD-094 Former Pesticide Storage S-2517	FTD-094
Final CMS AAFES Station	FTD-091
Final Focused Technical Selection, Area	FTD-030A
Final SMMP For Area 1395	FTD-030B
Final SMMP For Area 1495	FTD-030C
Final SMMP for Area 1245	FTD-089
Final SMMP for Building T-91	FTD-031
Order on Consent Fort Drum(Site #623008)	FTD-001, FTD-002, FTD-003, FTD-004, FTD-005, FTD-006, FTD-007, FTD-008, FTD-009, FTD-010, FTD-011, FTD-012, FTD-013, FTD-014, FTD-020, FTD-022, FTD-024, FTD-025, FTD-027, FTD-028, FTD-030A, FTD-030B, FTD-030C, FTD-030D, FTD-030E, FTD-030F, FTD-031, FTD-072, FTD-073, FTD-074, FTD-076, FTD-077, FTD-079, FTD-081, FTD-082, FTD-083, FTD-085, FTD-086, FTD-088, FTD-089, FTD-090, FTD-091, FTD-092, FTD-094, FTD-110, FTD-111, FTD-112

Land Use Control (LUC) Summary

LUC Title: Area 1245
Site(s): FTD-089

ROD/DD Title: Final SMMP for Area 1245

Location of LUC Area 1245

Land Use Restriction: Media specific restriction - Prohibit, or otherwise manage excavation below a specified depth, Media

specific restriction - prohibit use of groundwater for consumption or domestic purposes

Types of Engineering Controls: None

Types of Institutional Controls: Construction Permit, Dig Permits, Notations in Master Plan, Restrictions on Groundwater

Withdrawal

Date in Place: 201207 Modification Date: N/A Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Documentation Date: 201207

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: PETROLEUM HYDROCARBON

Additional Information

N/A

LUC Title: Building T-91

Site(s): FTD-031

ROD/DD Title: Final SMMP for Building T-91

Location of LUC

Building T-91 site

Land Use Restriction: Media specific restriction - Prohibit, or otherwise manage excavation below a specified depth, Media

specific restriction - prohibit use of groundwater for consumption or domestic purposes

Types of Engineering Controls: None

Types of Institutional Controls: Construction Permit, Dig Permits, Notations in Master Plan, Restrictions on Groundwater

Withdrawal, Restrictions on land use

Date in Place: 201207 Modification Date: N/A Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Documentation Date: 201207

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: PETROLEUM HYDROCARBON

Additional Information

N/A

LUC Title: Final SMMP Area 1395

Land Use Control (LUC) Summary

Site(s): FTD-030B

ROD/DD Title: Final SMMP For Area 1395

Location of LUC Area 1295

Land Use Restriction: Media specific restriction - Prohibit, or otherwise manage excavation below a specified depth, Media

specific restriction - prohibit use of groundwater for consumption or domestic purposes

Types of Engineering Controls: None

Types of Institutional Controls: Construction Permit, Dig Permits, Restrictions on Groundwater Withdrawal, Restrictions on land

use

Date in Place: 201207 **Modification Date:** N/A **Date Terminated:** N/A

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Documentation Date: 201207

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: PETROLEUM HYDROCARBON

Additional Information

N/A

LUC Title: Final SMMP For Area 1495

Site(s): FTD-030C

ROD/DD Title: Final SMMP For Area 1495

Location of LUC Area 1495

Land Use Restriction: Media specific restriction - Prohibit, or otherwise manage excavation below a specified depth, Media

specific restriction - prohibit use of groundwater for consumption or domestic purposes

Types of Engineering Controls: None

Types of Institutional Controls: Construction Permit, Dig Permits, Notations in Master Plan, Restrictions on Groundwater

Withdrawal, Restrictions on land use

Date in Place: 201207 Modification Date: N/A Date Terminated: N/A

Inspecting Organization: Installation

Record of LUC: Master Plan or Equivalent

Documentation Date: 201207

LUC Enforcement: Annual Inspections, 5 Year Reviews

Contaminants: PETROLEUM HYDROCARBON

Additional Information

N/A

Cleanup Program Summary

Installation Historic Activity

The installation has been used as a military training site since 1908; however, the Army's presence in the New York North Country may be traced back to the early 1800s.

In 1809, a company of infantry Soldiers was stationed at Sackets Harbor to enforce the Embargo Act and control smuggling between northern New York and Canada. Following the outbreak of the War of 1812, Sackets Harbor became the center of United States naval and military activity for the upper St. Lawrence River Valley and Lake Ontario.

During the 1830s and 1840s, the Patriots War in Canada prompted a new round of military preparations and Madison Barracks became the home of artillery units.

Learning that the war department was looking for areas in northern New York to train the troops, the Watertown Chamber of Commerce proposed that the Army establish a training area on 10,000 acres of land along the Black River in the vicinity of Felts Mills, Great Bend and the village of Black River.

In 1908 Brigadier General Frederick Dent Grant, son of General Ulysses S. Grant, was sent to the area with 2,000 regulars and 8,000 militia. He found Pine Plains to be an ideal place to train troops. The following year, money was allocated to purchase the land and summer training continued through the subsequent years. The camp's first introduction to the national spotlight came in 1935, when the largest peacetime maneuvers were held on Pine Plains and surrounding farmlands.

The 36,500 Soldiers came from throughout the northeast to take part in the exercise. Some Soldiers traveled by trains which arrived in town every 15 minutes, coming from as far away as Buffalo and New York City. For 36 hours, young men from offices, factories, and farms marched, attacked, and defended in tactical exercises on the 100 square miles the Army had leased for its war games. The maneuvers were judged to be most successful, and the war department purchased another 9,000 acres of land.

With the outbreak of World War II (WWII), the area then known as Pine Camp was selected for a major expansion and an additional 75,000 acres of land was purchased. With that purchase, 525 local families were displaced. Five entire villages were eliminated, while others were reduced by one-third to one-half their size.

By Labor Day 1941, 100 tracts of land were taken over. Three thousand buildings, including 24 schools, six churches and a post office were abandoned. Contractors then went to work, and in a period of 10 months at a cost of \$20 million, an entire city was built to house the divisions scheduled to train.

Eight hundred buildings were constructed, including 240 barracks, 84 mess halls, 86 storehouses, 58 warehouses, 27 officers' quarters, 22 headquarters buildings, and 99 recreational buildings, as well as guardhouses and a hospital. Construction workers paid the price, as winter 1941-1942 was one of the coldest in New York North Country history.

The three divisions to train at Pine Camp were General George S. Patton's 4th Armored Division (General Creighton Abrams was a battalion commander at the time), the 45th Infantry Division, and the 5th Armored Division.

The post also served as a prisoner-of-war camp. Of those prisoners who died at the post, one Italian and six Germans are still buried in the Sheepfold Cemetery near Remington Pond.

In 1951 Pine Camp was renamed Camp Drum, after Lt. Gen. Hugh A. Drum who commanded the First Army during WWII. During and after the Korean Conflict, a number of units were stationed and trained at the camp to take advantage of the terrain and climate.

The post was designated FTD in 1974 and a permanent garrison was assigned. In April 1980, B Company, 76th Engineer Battalion (Combat Heavy) was reassigned to FTD from Fort Meade, Maryland. It was followed by the rest of the battalion, less Company D, three years later.

In January 1984, the Department of the Army announced it was studying selected Army posts to house a new light infantry division. On Sept. 11, 1984, the announcement was made that FTD would be the new home of the 10th Light Infantry Division.

The first division troops arrived at FTD on Dec. 3, 1984, and the unit was officially activated on Feb. 13, 1985. At that time the name was changed to the 10th Mountain Division (Light Infantry). The mission of the 10th Mountain Division is to rapidly deploy by air, sea, and land anywhere in the world, prepared to fight upon arrival and win.

Cleanup Program Summary

Installation Historic Activity

On June 4, 1985 the identity of a roundout brigade was announced. The brigade was composed of New York Army National Guard battalions from central and northern New York under the 27th Infantry Brigade.

On June 28, 1985 the 76th Engineer Battalion was inactivated. The division reached full strength in 1989. Between 1986 and 1992, 130 new buildings, 35 miles of roads, and 4,272 sets of family housing units were built at a cost of \$1.3 billion.

Since the early-1990s, FTD has continued to construct and expand facilities to include training ranges, airfield facilities, and support facilities for rapid deployment. The primary cause of contamination of the environment throughout Fort Drum's history has been the failure of components related to fueling systems such as piping and valves.

Installation Program Cleanup Progress IRP

Prior Year Progress: The corrective measures implementation (operation)(CMI(O)) was continued at FTD-030A, 030D,

030E, 030F, and 091; long-term management (LTM) continued at FTD-007 and FTD 008 under a performance-based acquisition (PBA) contract. PBA contractor continued use of ozone sparging at FTD-030A and bio application at FTD-030A, 030D, 030E, 030F and 091 to accelerate progress. Closure was achieved through a consent order for 39 sites. A community relation plan will be

developed and implemented in 2015.

Future Plan of Action: A new contract awarded by USACE Baltimore has optimization and closeout activities planned for

FTD-030A, FTD-030D, FTD-030E, FTD-030F, and FTD-091 by the end of 2019. LTM activities

continue at FTD-007 and FTD-008.

CR

Prior Year Progress: CCFD-030G remedial investigation (RI) of tetrachloroethylene (PCE) contamination continued. The

CCFD-030H RI/feasibility study (FS) and interim remedial action (IRA) are complete. Closure of

CCFD-030H is expected in 2015.

Future Plan of Action: An RI/FS and ROD will be completed at CCFD-030G and a remedial design (RD)/remedial action -

construction [RA(C)] initiated.

FORT DRUM

Army Defense Environmental Restoration Program Installation Restoration Program

IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 54/47

Installation Site Types with Future and/or Underway Phases

2 Landfill

(FTD-007, FTD-008)

1 Soil Contamination After Tank Removal

(FTD-091)

4 Underground Tank Farm

(FTD-030A, FTD-030D, FTD-030E, FTD-030F)

Most Widespread Contaminants of Concern

Metals, Petroleum, Oil and Lubricants (POL), Polycyclic Aromatic Hydrocarbons (PAH), Volatiles (VOC)

Media of Concern

Groundwater, Sediment, Soil, Surface Water

Completed Ro	emedial Actions (Interim Reme Site Name	dial Action Action	ns/ Final Remedial Actions (IRA/FRA)) Remedy	FY
FTD-007	OLD SANITARY LANDFILL	IRA	CAPPING	1986
FTD-030D	GASOLINE ALLEY - AREA 1595	IRA	GROUND WATER TREATMENT	1994
FTD-077	HAZARDOUS WASTE STORAGE SITE BLDG S-2005	FRA	WASTE REMOVAL - SOILS	1994
FTD-003	SEWAGE TREATMENT PLANT	FRA	WASTE REMOVAL - SOILS	1995
FTD-030D	GASOLINE ALLEY - AREA 1595	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1995
FTD-007	OLD SANITARY LANDFILL	IRA	FENCE OR OTHER SITE ACCESS CONTROL MEASURES	1996
FTD-087	SAGE COMPLEX USTS	FRA	WASTE REMOVAL - SOILS	1996
FTD-087	SAGE COMPLEX USTS	FRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1996
FTD-008	AIRFIELD SANITARY LANDFILL	FRA	FENCE OR OTHER SITE ACCESS CONTROL MEASURES	1997
FTD-072	NEW JERSEY ANG POND	FRA	WASTE REMOVAL - SOILS	1997
FTD-074	DOL BATTERY SHOP BLDG P-44	FRA	WASTE REMOVAL - SOILS	1997
FTD-076	PESTICIDE/HERBICIDE STORAGE BLDG T-4002	FRA	WASTE REMOVAL - SOILS	1997
FTD-076	PESTICIDE/HERBICIDE STORAGE BLDG T-4002	FRA	INCINERATION	1997
FTD-093	SAGE COMPLEX STORM SEWER OUTFALL	FRA	WASTE REMOVAL - SOILS	1997
FTD-007	OLD SANITARY LANDFILL	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1998
FTD-007	OLD SANITARY LANDFILL	IRA	DRAINAGE CONTROLS	1999
FTD-008	AIRFIELD SANITARY LANDFILL	FRA	DRAINAGE CONTROLS	1999
FTD-008	AIRFIELD SANITARY LANDFILL	FRA	CAPPING	1999
FTD-089	BLDG 1245 UST	IRA	GROUND WATER TREATMENT	1999
FTD-112	TRAINING SITE POL CONTAM. NEAR RANGE 17	IRA	WASTE REMOVAL - SOILS	1999
FTD-030B	GASOLINE ALLEY - AREA 1395	FRA	NATURAL ATTENUATION	2001

IRP Summary

Completed Ro	emedial Actions (Interim Remo	edial Action Action	ns/ Final Remedial Actions (IRA/FRA)) Remedy	FY
FTD-030B	GASOLINE ALLEY - AREA 1395	FRA	SOIL VAPOR EXTRACTION	2001
FTD-030B	GASOLINE ALLEY - AREA 1395	FRA	BIOVENTING	2001
FTD-030B	GASOLINE ALLEY - AREA 1395	FRA	AIR SPARGING	2001
FTD-030C	GASOLINE ALLEY - AREA 1495	FRA	BIOVENTING	2001
FTD-030C	GASOLINE ALLEY - AREA 1495	FRA	SOIL VAPOR EXTRACTION	2001
FTD-030C	GASOLINE ALLEY - AREA 1495	FRA	AIR SPARGING	2001
FTD-030C	GASOLINE ALLEY - AREA 1495	FRA	NATURAL ATTENUATION	2001
FTD-091	BLDG P-2140 USTS	FRA	NATURAL ATTENUATION	2002
FTD-091	BLDG P-2140 USTS	FRA	AIR SPARGING	2002
FTD-091	BLDG P-2140 USTS	FRA	DUAL-PHASE EXTRACTION	2002
FTD-091	BLDG P-2140 USTS	IRA	GROUND WATER TREATMENT	2002
FTD-091	BLDG P-2140 USTS	IRA	FREE PRODUCT RECOVERY	2002
FTD-030F	GASOLINE ALLEY - AREA	FRA	DUAL-PHASE EXTRACTION	2004
1 12 0001	3805	1101	DONE TIME EXTRACTION	200.
FTD-089	BLDG 1245 UST	FRA	NATURAL ATTENUATION	2005
FTD-030D	GASOLINE ALLEY - AREA 1595	FRA	AIR SPARGING	2006
FTD-030D	GASOLINE ALLEY - AREA 1595	FRA	SOIL VAPOR EXTRACTION	2006
FTD-030D	GASOLINE ALLEY - AREA 1595	FRA	BIOVENTING	2006
FTD-030D	GASOLINE ALLEY - AREA 1595	FRA	NATURAL ATTENUATION	2006
FTD-031	BUILDING T-91	FRA	NATURAL ATTENUATION	2006
FTD-007	OLD SANITARY LANDFILL	FRA	DRAINAGE CONTROLS	2007
FTD-007	OLD SANITARY LANDFILL	FRA	OTHER	2007
FTD-007	OLD SANITARY LANDFILL	FRA	CAPPING	2007
FTD-030A	GASOLINE ALLEY - AREA 1295	FRA	NATURAL ATTENUATION	2007
FTD-030A	GASOLINE ALLEY - AREA 1295	FRA	CHEMICAL REDUCTION/OXIDATION	2007
FTD-030E	GASOLINE ALLEY - AREA 1795/WWII LANDFILL	FRA	BIOVENTING	2007
FTD-030E	GASOLINE ALLEY - AREA 1795/WWII LANDFILL	FRA	AIR SPARGING	2007
FTD-030E	GASOLINE ALLEY - AREA 1795/WWII LANDFILL	FRA	INSTITUTIONAL CONTROLS	2007
FTD-030E	GASOLINE ALLEY - AREA 1795/WWII LANDFILL	FRA	REMOVAL	2007
FTD-030E	GASOLINE ALLEY - AREA 1795/WWII LANDFILL	FRA	NATURAL ATTENUATION	2007
FTD-030E	GASOLINE ALLEY - AREA 1795/WWII LANDFILL	FRA	SOIL VAPOR EXTRACTION	2007

IRP Summary

Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA)) FΥ Action Remedy Site ID Site Name FTD-030F GASOLINE ALLEY - AREA FRA AIR SPARGING 2007 3805 NATURAL ATTENUATION 2007 FTD-030F **GASOLINE ALLEY - AREA** FRA 3805 GASOLINE ALLEY - AREA FTD-030B FRA **INSTITUTIONAL CONTROLS** 2012 1395 FTD-030C **GASOLINE ALLEY - AREA** FRA **INSTITUTIONAL CONTROLS** 2012 1495 FTD-089 BLDG 1245 UST FRA **INSTITUTIONAL CONTROLS** 2012 FTD-111 T-2161 WATER TOWER **IRA** WASTE REMOVAL - SOILS 2013

Duration of IRP

Date of IRP Inception: 198010

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201309/201510

Date of IRP completion including Long Term Management (LTM): 204412

IRPContamination Assessment

Contamination Assessment Overview

Studies of potentially contaminated sites at FTD began in 1980 when the US Army Toxic and Hazardous Materials Agency (USATHAMA) conducted an installation assessment. This study identified 35 AOCs. In 1986 USATHAMA contracted to have an RI performed; six sites were studied in depth and the US Army Environmental Hygiene Agency (USAEHA) conducted an evaluation of solid waste management units (SWMUs), which considered 72 AOCs. Currently, there are seven active Installation Restoration Program (IRP) sites that are being remediated or undergoing LTM. The other sites have been classified as needing no further action (NFA) or have been remediated and are awaiting final closure pending NYSDEC review.

Past solid waste disposal practices have resulted in the contamination of soil, surface water, sediment and groundwater with landfill leachate containing petroleum hydrocarbons, heavy metals, pesticides, solvents, and paint components. Formerly leaking underground storage tanks (UST) resulted in free-product floating on the water table, contaminating the groundwater, surface water, sediment and soil. Past explosive ordnance disposal (EOD) activities caused elevated levels of heavy metals and trace explosive and propellant compounds in the soil and groundwater. Two buildings/sites were contaminated with pesticides.

Petroleum is the predominant contaminant at the remaining 11 active sites. Leaking USTs and piping at nine former fuel dispensing facilities along the area known as Gasoline Alley have resulted in six petroleum contaminated sites (areas 1295, 1395, 1495, 1595, 1795, and 3805) with extensive groundwater plumes and soil contamination, as well as surface water and sediment contamination at three of the sites. Other active petroleum contaminated sites include Building P-2140 (an active Army and Air Force Exchange Service (AAFES) fueling station with groundwater, soil, surface water and sediment contamination), Building T1245 (a former fueling facility with soil and groundwater contamination), and Building T-91 (a maintenance shop with soil and groundwater contamination). In addition, there are two former landfills: the airfield sanitary landfill with potential metals and phenols impacts to groundwater and the old sanitary landfill (OSL) with metals, benzene, toluene, ethylbenzene and xylenes (BTEX), phenols, and other contamination of groundwater, surface water, sediment and soil.

The lead regulatory agency is the NYSDEC Division of Environmental Remediation.

FTD was issued a consent order for all IRP sites in February 2014.

Cleanup Exit Strategy

The installation has seven active sites currently receiving funding. Remedies were in place for all sites by the end of 2007, and all active sites are in the CMI(O) or LTM phases. The status of these sites is as follows:

- FTD-007 OSL: LTM
- FTD-008 Airfield sanitary landfill (ASL): LTM
- FTD-030A area 1295: Monitored natural attenuation (MNA), LTM
- FTD-030D area 1595: Operate aquifer air sparging (AAS)/soil vapor extraction (SVE)/bioventing systems, limited excavation of the creek if necessary, MNA, LTM
- FTD-030E area 1795: Operate AAS/SVE/bioventing system, MNA, LTM
- FTD-030F area 3805: Operate multi-phase extraction (MPE)/AAS systems at source area, MNA, LTM
- FTD-091 Bldg P-2140 USTs: Operate dual-phased extraction and AAS systems, MNA, LTM

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	Solid Waste Disposal Study No. 38-26-0444-85	USAEHA	SEP-1984
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FTD -30-1295, Comprehensive Site Evaluation Area	Radian	FEB-1997
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FTD -30-3805, Report of Progress Area 3805 Pilot	EA	FEB-1997
Treatment System Study Performance Period 1 Nov -	CA	FEB-1997
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Measurement Devices		
Investigative Derived Material at Building 1600 Letter	EA	FEB-1997
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FTD -74, Battery Shop P-44 Groundwater Sampling	M Hart	MAR-1997
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FTD -30, Groundwater and Subsurface Soil Sampling WES Treatability Study	EA	MAR-1997
Summary Report Underground Storage Tank Removal	Radian	MAR-1997
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January 1997 Groundwater Sampling Results Gasoline	IVII	WAIX-1997
Alley		
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Programs Slug Test Data on T3805 Monitoring Wells		WINTE 1007
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& Sediment Sampling Report Area 1795 Creek		1007
Gasoline Alley September 1996		
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Sediment Sampling Results Old Sanitary Landfill	1411	Will the 1887
(sampling event: Jan 1997)		
TD -76, Freedom of Information Act Documents		MAR-1997
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FTD -76, 4002 Confirmation Soil Sampling	R&R	MAR-1997
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FTD -30-1795, Final 1996 Data Gap Study Aquifer	EA	MAR-1997
Pumping Test Report Area 1795		110 11 1001
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Freatment System Study Performance Period 1 January		741111007
31 March 1997		
FTD -31, Letter Report Groundwater Sampling at T-91	Weston	APR-1997
Site, Results of Round 8 (event March 19, 1997)		1111111111111111111111111111111111111
FTD -8, Closure Plan Airfield Landfill Fort Drum, New	CDM	APR-1997
York		
TD -7, Draft Stream Gauging Program Report July	EA	APR-1997
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TD -30-3805, Report of Progress - Area 3805 Pilot	EA	APR-1997
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mpoundment Restorations & Installation of Flow		
Measurement Revised Final		
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FTD -7, Final Work Plan Addendum Separate-Phase	EA	JUN-1997
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Product Plume Delineation Study Area 3805/Old		
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Area 3805-RW3	D-di-	
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1997, Gas Alley, FTD		
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Dr NY		
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Ft Dr NY		
FTD -87, Completion of Monitoring Well	Radian	SEP-1997
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Syracuse, NY		
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FTD -8, Post-Closure Operations & Maintenance Plan	CDM	SEP-1997
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Cover Improvements		1000
FTD -8, Annual GW Sampling Data Airfield Sanitary	CDM	SEP-1997
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FTD -30-3805, Monthly Operating Report Area 3805	Radian	SEP-1997
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FTD -7, General Work Plan Drum Removal & Slope	Radian	SEP-1997
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3805/Old Sanitary Landfill Fort Drum, NY	VVES	001-1997
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FTD -7, Third Semi Annual Surface Water & Sediment	MP	OCT-1997
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FTD -30-1795, Final Second Semi Annual Surface	EA	OCT-1997
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Installation Restoration Program Activities at Fort Drum,	WC	001-1991
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Alley		
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Interim Treatment System Pilot Study 1 July to 30 Sept		

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FTD -7, Final Quarterly Seep Monitoring Program Report Old Sanitary Landfill Gas Alley, Ft Dr NY	EA	NOV-1997
FTD -72, Quarterly Groundwater Monitoring Program Report Sept 97 Sampling Event NJARNG	EA	NOV-1997
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FTD -30-1595, Quarterly Report of O & M Technical Support Building 1599 Treatment System July-October 1997, Gas Alley Ft Dr	EA	NOV-1997
FTD -30-3805, Monthly Operating Report, Area 3805 RW-3, November 1997	Radian	NOV-1997
FTD -93, As Builts for Sage Storm Sewer Outfall RA Completed 1997	EnviroCon	NOV-1997
FTD -74, Decommissioning of Monitoring Wells P44- 001 and P44-002 Battery Shop Building P-44, FDMR, Fort Drum, NY	EA	DEC-1997
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FTD -74, Field Investigation & Remedial Action Report Battery Shop Building P-44	EA	DEC-1997
FTD -30, Second Quarter 1997 Groundwater Sampling Results Gasoline Alley, Fort Drum, New York	MP	DEC-1997
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FTD -30-3805, Monthly Operating Report Area 3805 RW-3 December 1997	Radian	DEC-1997
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FTD -30-1595, Summary of Activities December 1997 Operation & Maintenance Technical Support Building 1599	EA	JAN-1998
FTD -91, Performance Evaluation Rpt. GW Extract. & Treat. & FP Recovery Sys., Bldg. P-2140, March 1996 - March 1997	EA	JAN-1998
FTD -30-3805, Quarterly Report of Progress Area 3805 Pilot Treatment System Study October-December 97 Gas Alley	EA	JAN-1998
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FTD -30-1795, Quarterly Report of Progress Area 1795 Pilot Treatment System Study October-December 97 Gas Alley	EA	JAN-1998
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FTD -8, Maps for Final Specifications Airfield Sanitary Landfill Cover Improvements	CDM	JAN-1998
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1599, Ft Dr, NY		
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4002 Fort Drum, NY (event 20 Nov 97)		
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Field Army Complex Syracuse, NY Completion of Work		1.55 / 666
FTD -30-1795, Aquifer Air Sparging/Soil Vapor	EA	APR-1998
Extraction Pilot Study Report Area 1795 Gasoline Alley,		
Fort Drum, NY		A DD 4000
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3805 Pilot Treatment System Study January-March 98		
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1599, Fort Drum, NY		
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Bioremediation Evaluation Area 1595 Phase 1 & Phase	WES	IVIAT-1990
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FTD -30-1595, Quarterly Report of O & M Technical	EA	JUN-1998
Support, April June-1998, Building 1599 Treatment		
System, Gas Alley		
FTD -22, Groundwater Monitoring at Explosive	MP	JUN-1998
Ordnance Disposal (EOD) Burn Sites Ranges 17 & 35		
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New Version of GIS/Access databases on CD-ROM	Dedies	
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RW-3 July 1998	Nacian	3014-1990
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April-30 June 1998)		
FTD -30-1595, Summary of Activities - July 1998 O&M	EA	JUL-1998
Technical Support, Building 1599, Fort Drum, NY		
FTD -31, Groundwater Sampling at Building T-91, Fort	Weston	JUL-1998
Drum, NY Round 9 Results (April 1998),	MD	
FTD -7, Summary of Surface Water and Sediment	MP	JUL-1998
Sampling Results, OSL, FTD, NY (4 events: 7/96-6/98) FTD -30-3805, Monthly Operating Report Area 3805	Radian	JUL-1998
RW-3 June 1998	Nadian	JOL-1990
FTD -8, ASL Cover Improvement Original Ground	Thew	JUL-1998
Topography (Drawing)	11.011	002 1000
Monitoring Well Abandonment Activities at Fort Drum,	CDM	AUG-1998
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FTD -30-3805, Quarterly Report of Progress Area	EA	AUG-1998
3805 Pilot Treatment System Study, Apr-Jun 1998		
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FTD -8, ASL Cover Improvement Top of Sand	Thew	AUG-1998
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FTD -30-1395, Gas Alley Soil Remediation Final Work	Radian	SEP-1998
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Sanitary Landfill Improvements at Fort Drum, NY)		
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Alley Fort Drum		
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Technique (WET) Baseline Conditions Assessment &		
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Quarterly Update of Treatment System Operations		
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FTD -30-3805, Summary of Area 3805 Treatment System Upgrades August-September 1998, Gasoline Alley, FT DR, NY	EA	JAN-1999	
FTD -8, ASL Cover Improvements Project Final As Built Record Drawings Disk	EnviroCon	JAN-1999	
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FTD -30, Second Semi Annual 1998 Groundwater Sampling Event Results Gasoline Alley Fort Drum, New York	MP	FEB-1999	
FTD -7, Response to Comments on Work Plan for Construction of Enhanced Wetlands Sys & Landfill Surface Drain OSL	MP	MAR-1999	
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FTD -7, OSL Ft Dr NY Wetlands Evaluation Technique (WET) Comparative Summary Assessment and Results	MP	MAR-1999	
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FTD -7, Final Cost Estimate Enhanced Wetlands System & Landfill Surface Drainage Features Old Sanitary Landfill, FTD, NY	MP	APR-1999	
Data Consolidation and Evaluation Conceptual Site Model Development - Phase II Sites	MP	APR-1999	
FTD -91, Quarterly Report of Progress - Building P- 2140 Interim Treatment System Pilot Study, FTD, NY (1 Jan - 31 Mar 99)	EA	APR-1999	
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FTD -89, UVB Pilot Study Report Building T-1245 Fort Drum, NY	Weston	APR-1999	
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FTD -30-1595, Final Interim Remedial Measure Enhancement Design Area 1595 Gasoline Alley, Fort Drum, NY	EA	MAY-1999
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FTD -30, First Semiannual 1999 Groundwater Sampling Event Results - Gasoline Alley, FTD,NY	MP	JUL-1999
FTD -30-1595, Technical approach for Area 1595 Focused Feasibility Study, Gasoline Alley	EA	JUL-1999
FTD -7, Response to comments on draft work plan for OSL, 1595,1795 Surface Water and Sediment Monitoring	MP	JUL-1999
FTD -30, Response to comments on draft work plan for OSL, 1595,1795 Surface Water and Sediment Monitoring	MP	JUL-1999
FTD -91, Remedial Investigation Data Gap Study, AAFES Gas Service Station, Building P-2140	EA	JUL-1999
FTD -91, Technical Proposal for a revised ground- water monitoring program, Building P-2140	EA	JUL-1999
FTD -30, Summary of O&M Technical Support Bldg.1599, Ft Dr, NY (Performance Period April - June 99)	EA	JUL-1999
FTD -30-1795, Final Area 1795 Bioslurping Pilot Study Installation and Startup Report Gasoline Alley, FTD, NY	EA	JUL-1999
FTD -30-1795, Final Area 1795 Bioslurping System Operation and Maintenance Manual Gasoline Alley, FTD, NY	EA	JUL-1999
FTD -112, Oxygen Releasing Compound (ORC) Application at the Range 17 Spill Site, FTD, NY	MP	JUL-1999
FTD -91, Quarterly Report of Progress - Building P- 2140 Interim Treatment System Pilot Study, FTD, NY (1 Apr - 30 Jun 99)	EA	JUL-1999
FTD -7, Fort Drum Surface Water & Sediment Monitoring Program Final Work Plan Addendum (OSL, Areas 1595, 1795)	MP	JUL-1999
FTD -30-1595, Fort Drum Surface Water & Sediment Monitoring Program Final Work Plan Addendum (OSL, Areas 1595, 1795)	MP	JUL-1999
FTD -30-1795, Fort Drum Surface Water & Sediment Monitoring Program Final Work Plan Addendum (OSL, Areas 1595, 1795)	MP	JUL-1999
FTD -91, Extraction Well Cleaning Interim Pilot Study Groundwater Pump & Treat System, Bldg P-2140, FTD, NY	EA	JUL-1999
FTD -30-3805, Quarterly Report of Progress - Area 3805 Pilot Treatment System Study, Apr - Jun 99, Gasoline Alley, FTD, NY	EA	JUL-1999

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FTD -30-1795, Final Work Plan Data Gap Study,	EA	JUL-1999
Separate-Phase Product Plume Delineation Area 1795		002 1000
Gasoline Alley, FTD, NY		
FTD -30, Final Work Plan Remedial Investigation DGS	EA	JUL-1999
Source Area Investigations Areas 1595, 1795, 1895,		
1995, 3805 GA, FTD		
FTD -89, Final Work Plan Remedial Investigation Data	EA	JUL-1999
Gap Study Bldg T-1245, FTD, NY		
FTD -8, Final Work plan Addendum for the GW	MP	AUG-1999
Sampling at the Airfield Sanitary Landfill		
FTD -30-1795, Quarterly Report of Progress - Area	EA	AUG-1999
1795 Bioslurping Pilot Study, 1 April - 30 June 1999		
FTD -30-1595, Final Summary Report Interim	Radian	AUG-1999
Remedial Measure Enhancement June/July 1999 Gas		
Alley Area 1595 FTD, NY		
FTD -112, Range 17 POL Spill Final Report, Range 17,	Radian	AUG-1999
Fort Drum, NY		
FTD -112, Range 17 POL Spill Final Report (Book 2),	Radian	AUG-1999
Range 17, Fort Drum, NY (Sampling data, Appendices		
B & C for above rpt)		
FTD -112, Gasoline Alley Soil Remediation, FTD, NY,	Lanc Labs	AUG-1999
Range 17 Soil Samples Data Package (lab report soil		
confirmation samples)		
FTD -7, Old Sanitary Landfill Drainage Stabilization	Radian	AUG-1999
Project (Downchutes)		
FTD -30-3805, Summary of Area 3805 Treatment	EA	SEP-1999
System Upgrades - 3805-RW11and 3805-RW13		
Gasoline Alley, FTD, NY		
FTD -7, Phase I Risk Assessment, FTD, NY	MP	SEP-1999
(Responses to comments on Pre-draft Risk		
Assessment)		
FTD -30, Phase I Risk Assessment, FTD, NY	MP	SEP-1999
(Responses to comments on Pre-draft Risk		
Assessment)		
FTD -7, First 1999 Semiannual Surface water and	MP	NOV-1999
Sediment Sampling Results OSL, FTD, NY (OSL, 1595,		
1795 creeks)		
FTD -30-1595, First 1999 Semiannual Surface water	MP	NOV-1999
and Sediment Sampling Results OSL, FTD, NY (OSL,		
1595, 1795 creeks)		
FTD -30-1795, First 1999 Semiannual Surface water	MP	NOV-1999
and Sediment Sampling Results OSL, FTD, NY (OSL,		
1595, 1795 creeks)		
FTD -91, Quarterly Report of Progress - Building P-	EA	NOV-1999
2140 Interim Treatment System Pilot, FTD, NY		
FTD -30-3805, Quarterly Report of Progress - Area	EA	NOV-1999
3805 Pilot Treatment System Study, July - Sept 1999,		
Gasoline Alley, FTD, NY		
FTD -30-1795, Quarterly Report of Progress -Area	EA	NOV-1999
1795 Bioslurping Pilot Study, Gasoline Alley, FTD, NY		
(July - Sept 1999)		1101/ :
FTD -30-1795, Letter Report of Data Gap Study,	EA	NOV-1999
Separate-Phase Product Delineation, Area 1795,		
Gasoline Alley, FTD, NY		

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FTD -8, Report for Annual Groundwater Sampling	MP	NOV-1999
Performed 8/31/99 and 9/1/99 Airfield Sanitary Landfill,		
FTD, NY		

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ETD 00 4705 Finall attended at 15 person of Date One Objects		IANI 0000
FTD -30-1795, Final Letter Report of Data Gap Study,	EA	JAN-2000
Separate-Phase Product Delineation, Area 1795,		
Gasoline Alley, FTD, NY		
FTD -8, ASL, FTD, NY Final Report for Annual	MP	JAN-2000
Groundwater Sampling Performed 8/31/99 and 9/1/99		
(includes 1 CDROM)		
FTD -30-1595, Final Groundwater Pilot Study Design	EA	JAN-2000
Area 1595, Gasoline Alley, FTD, NY		
FTD -91, Quarterly Report of Progress - Building P-	EA	JAN-2000
2140 Interim Treatment System Pilot Study, FTD, NY		
FTD -91, Final Remedial Investigation Data Gap Study	EA	JAN-2000
AAFES Service Station, FTD, NY		
FTD -30, Second Semi Annual 1999 Groundwater	MP	JAN-2000
Sampling Event Results, Gasoline Alley Fort Drum,		
New York		
FTD -30-3805, Quarterly Report of Progress - Area	EA	FEB-2000
3805 Pilot Treatment System Pilot Study, Gasoline		
Alley, FTD, NY		
FTD -30-1795, Quarterly Report of Progress - Area	EA	FEB-2000
1795 Bioslurping Pilot Study, Gasoline Alley, FTD, NY		
FTD -76, Final Remedial Action Report for Building T-	CDM	FEB-2000
4002, Fort Drum, New York		
FTD -7, Second 1999 Semiannual Surface Water and	MP	MAR-2000
Sediment Sampling Results Old Sanitary Landfill, FTD		
FTD -30-1395, Quarterly Report of System Operation	EA	MAR-2000
- Area 1395 and 1495 Systems, Gasoline Alley, FTD,		
NY (Oct - Dec 1999)		
FTD -30-1495, Quarterly Report of System Operation	EA	MAR-2000
- Area 1395 and 1495 Systems, Gasoline Alley, FTD,		100 11 2000
NY (Oct - Dec 1999)		
FTD -88, Work plan for installation of new well and	MP	MAR-2000
sampling of 3 wells for VOCs and lead at T-4006 site	1011	1000
FTD -30-1195, Final Comprehensive Contaminant	EA	MAR-2000
Assessment Report Vol. II Areas 1195, 1295, 1395, and		WAIX-2000
1495 Gas Alley, FTD, NY		
FTD -30-1295, Final Comprehensive Contaminant	EA	MAR-2000
Assessment Report Vol. II Areas 1195, 1295, 1395, and	LA	IVIAN-2000
1495 Gas Alley, FTD, NY		
FTD -30-1395, Final Comprehensive Contaminant	EA	MAD 2000
Assessment Report Vol. II Areas 1195, 1295, 1395, and	EA	MAR-2000
1495 Gas Alley, FTD, NY		MAD 2000
FTD -30-1495, Final Comprehensive Contaminant	EA	MAR-2000
Assessment Report Vol. II Areas 1195, 1295, 1395, and		
1495 Gas Alley, FTD, NY		A DD 0000
FTD -30-1795, Quarterly Report of Progress - Area	EA	APR-2000
1795 Bioslurping Pilot Study, Gasoline Alley, FTD, NY		A B B B B B B B B B B B B B B B B B B B
FTD -91, Quarterly Report of Progress - Building P-	EA	APR-2000
2140 Interim Treatment System Pilot Study, FTD, NY		1.55.000
FTD -91, Groundwater Sampling Results, AAFES	EA	APR-2000
Service Station, FTD, NY (sampling 3 wells, 3/7/00)		

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FTD -30-3805, Quarterly Report of Progress - Area	EA	MAY-2000
3805 Pilot Treatment System Study, Gasoline Alley,	EA	IVIA 1 -2000
FTD, NY		
FTD -91, Temporary Groundwater Sampling Point	EA	MAY-2000
Results AAFES Service Station, FTD, NY		
FTD -31, Groundwater Sampling at Building T-91, Fort	Weston	MAY-2000
Drum, NY Round 11 Results (March 2000)		
FTD -7, First Semiannual Year 2000 Surface Water	MP	JUL-2000
and Sediment Sampling Results OSL and Areas 1595 &		
1795		
FTD -30-1595, First Semiannual Year 2000 Surface	MP	JUL-2000
Water and Sediment Sampling Results OSL and Areas		
1595 & 1795	 	
FTD -30-1795, First Semiannual Year 2000 Surface	MP	JUL-2000
Water and Sediment Sampling Results OSL and Areas		
1595 & 1795	MD	11.11. 2000
FTD -88, Report for Well Installation and Sampling	MP	JUL-2000
Performed at Area T-4006, FTD, NY FTD -30-1395, Quarterly Report of System Operation	EA	JUL-2000
- Area 1395 and 1495 Systems, Gasoline Alley, FTD,	LA	JUL-2000
NY (Apr - Jun 2000)		
FTD -30-1495, Quarterly Report of System Operation	EA	JUL-2000
- Area 1395 and 1495 Systems, Gasoline Alley, FTD,		002 2000
NY (Apr - Jun 2000)		
FTD -30-1795, Quarterly Report of Progress - Area	EA	JUL-2000
1795 Bioslurping Pilot Study, Gasoline Alley, FTD, NY		332 2333
FTD -91, Quarterly Report of Progress - Building P-	EA	JUL-2000
2140 Interim Treatment System Pilot Study, FTD, NY		
FTD -30-3805, Quarterly Report of Progress - Area	EA	JUL-2000
3805 Pilot Treatment System Study, Gasoline Alley,		
FTD, NY		
FTD -91, Groundwater Sampling Results, June 2000	EA	AUG-2000
Sampling Event, AAFES Service Station, FTD, NY		
FTD -7, Final Risk Assessment Fort Drum, New York	MP	SEP-2000
Gasoline Alley, WWII Landfill, Old Sanitary Landfill		
FTD -30, Final Risk Assessment Fort Drum, New York	MP	SEP-2000
Gasoline Alley, WWII Landfill, Old Sanitary Landfill	<u> </u>	
FTD -30, Final Comprehensive Contaminant	EA	SEP-2000
Assessment Report Vol. I Introduction and Overview		
Gasoline Alley, FTD, NY		050,000
FTD -30, Final Comprehensive Contaminant	EA	SEP-2000
Assessment Report Volumes I - V Gasoline Alley, FTD,		
NY (CD-ROM) Final Risk Assessment Work Plan FTD, NY Rng 17 &	EA	OCT 2000
35,Spill Nr Rng 17, T91,T1245,P2140,T4006, ASL	LA	OCT-2000
FTD -91, Quarterly Report of Progress - Building P-	EA	OCT-2000
2140 Interim Treatment System Pilot Study, FD, NY	LA	001-2000
(July - September 2000)		
FTD -22, Final Report Groundwater Monitoring at EOD	MP	OCT-2000
Burn Sites, Rngs 17 and 35, FTD, NY (Report and CD)		201 2000
FTD -24, Final Report Groundwater Monitoring at EOD	MP	OCT-2000
Burn Sites, Rngs 17 and 35, FTD, NY (Report and CD)		
FTD -30-1795, Quarterly Report of Progress - Area	EA	NOV-2000
1795 Bioslurping Pilot Study, Gasoline Alley, FTD, NY		
(Jul-Sept 00)		

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FTD -30-1595, Summary of Operation and	EA	NOV-2000
Maintenance Technical Support, July - September		
2000 Building 1599, FTD, NY		
FTD -30-1395, Quarterly Report of System Operation	EA	NOV-2000
- Area 1395 and 1495 Systems Gasoline Alley, FTD,		
NY		
FTD -30-1495, Quarterly Report of System Operation	EA	NOV-2000
- Area 1395 and 1495 Systems Gasoline Alley, FTD,		
NY		
FTD -30-3805, Quarterly Report of Progress - Area	EA	NOV-2000
3805 Pilot Treatment System Study, Gasoline Alley,		
FTD, NY (Jul-Sept)		
FTD -91, Groundwater Sampling results, Sept. 2000	EA	DEC-2000
Sampling Event, AAFES Station, FTD, NY		
FTD -30-1295, Final Work Plan Remedial Pilot Study	EA	DEC-2000
Areas 1295, 1395, and 1495 Gasoline Alley, FTD, NY		
FTD -30-1395, Final Work Plan Remedial Pilot Study	EA	DEC-2000
Areas 1295, 1395, and 1495 Gasoline Alley, FTD, NY		
FTD -30-1495, Final Work Plan Remedial Pilot Study	EA	DEC-2000
Areas 1295, 1395, and 1495 Gasoline Alley, FTD, NY		
FTD -30-1595, Final Area 1595 Groundwater Pilot	EA	DEC-2000
Study Report Gasoline Alley FTD, NY		
FTD -91, Final Work Plan Aquifer Air Sparging/Dual-	EA	DEC-2000
Phase Extraction Pilot Study AAFES Station Building		
P-2140, FTD, NY		

Author

FTD -30-1595, Groundwater Model Enhancement	MP	JAN-2001
Report Area 1595 Fort Drum, New York		
FTD -91, Quarterly Report of Progress - Building P-	EA	JAN-2001
2140 Interim Treatment System Pilot Study, FTD, NY		
Quarterly IRP Meeting Minutes for Fort Drum, 1/10/01	MP	MAR-2001
and 1/11/01		
FTD -30-3805, Quarterly Report of Progress, Area	EA	APR-2001
3805 Pilot Treatment System Study, Jan-Mar 2001,		
FTD, NY		
FTD -8, Airfield Sanitary Landfill, Fort Drum, NY, Fnal	MP	APR-2001
Report for Annual Groundwater Sampling Performed		
8/8/00 and 8/9/00		
FTD -91, Quarterly Report of Progress - Building P-	EA	APR-2001
2140 Interim Treatment System Pilot Study, FTD, NY		
FTD -30-1595, Summary of Operation and	EA	APR-2001
Maintenance Technical Support, Jan - Mar 2001		
Building 1599, FTD, NY		
FTD -30-1395, Quarterly Report of System Operation-	EA	APR-2001
Bioventing & AAS, Areas 1395 & 1495 (Jan-Mar 2001),		
FTD, NY		
FTD -30-1495, Quarterly Report of System Operation-	EA	APR-2001
Bioventing & AAS, Areas 1395 & 1495 (Jan-Mar 2001),		
FTD, NY		
FTD -89, Final Remedial Investigation Data Gap Study,	EA	APR-2001
Former Building T-1245, FTD, NY		
FTD -91, Groundwater Sampling Results, March 2001	EA	MAY-2001
Sampling Event, AAFES Station, FTD, NY		
FTD -30-1795, Quarterly Report of Progress Area	EA	MAY-2001
1795 Bioslurping Pilot Study, Gasoline Alley, FTD,		

Title Author Date 2001

NY(1Jan-31Mar 01)		
, ,		
FTD -91, Quarterly Report of Progress, Bldg P-2140 AAFES Gas Station, FTD, NY (1 Jan - 31 Mar 01)	EA	MAY-2001
FTD -30, Gasoline Alley Groundwater Monitoring Program Work Plan, FTD, NY	MP	MAY-2001
FTD -30, Final Source Area Remedial	EA	MAY-2001
Investigation/Datagap Study Report, Areas 1595,1795,1895,1995,3805, FTD, NY		
FTD -30, Gasoline Alley Groundwater Monitoring	MP	MAY-2001
Program, FTD, NY April 2001 Well/Piezometer Gauging Results (1 disk)		1001
Quality Assurance Program Plan	MP	MAY-2001
Quality Assurance i Togram i Tan	IVII	
FTD -30-3805, Quarterly Report of Progress, Area 3805 Pilot Treatment System Study, April-June 2001, FTD, NY	EA	JUL-2001
FTD -30-1595, Summary of Operations and	EA	JUL-2001
Maintenance Technical Support, April-June 2001, Bldg		30L-2001
1599, FTD, NY		
FTD -91, Groundwater Sampling Results, June 2001	EA	JUL-2001
Sampling Event, AAFES Service Station, FTD, NY		
FTD -30-1795, Quarterly Report of Progress - Area	EA	JUL-2001
1795 Bioslurping Pilot Study, April - June 2001,		
Gasoline Alley, FTD, NY		
FTD -7, Response to Comments on Draft Work Plan for	MP	JUL-2001
DGS to Support CMS Gas Alley Areas 1895/1995/3805		
and OSL, FTD	MD	
FTD -30-3805, Response to Comments on Draft Work	MP	JUL-2001
Plan for DGS to Support CMS Gas Alley Areas 1895/1995/3805 and OSL, FTD		
FTD -30-1395, Quarterly Report of System Operation	EA	AUG-2001
- Bioventing and AAS Systems, Areas 1395 and 1495,		7.00 2001
Gas Alley, FTD, NY		
FTD -30-1495, Quarterly Report of System Operation	EA	AUG-2001
- Bioventing and AAS Systems, Areas 1395 and 1495,		
Gas Alley, FTD, NY		
ArcView Project Update (update to IRP sampling	EA	AUG-2001
database; CD)		
FTD -7, Final Work Plan Data Gap Study to Support	MP	SEP-2001
Corrective Measures Study, Gasoline Alley and Old		
Sanitary Landfill FTD -30-3805, Final Work Plan Data Gap Study to	MP	SEP-2001
Support Corrective Measures Study, Gasoline Alley and	IVIP	SEP-2001
Old Sanitary Landfill		
FTD -7, Summary of Surface Water and Sediment	MP	SEP-2001
Sampling Results (July 1999 - December 2000), OSL,		02. 200.
1595, 1795, FD, NY		
FTD -30-1595, Summary of Surface Water and	MP	SEP-2001
Sediment Sampling Results (July 1999 - December		
2000), OSL, 1595, 1795, FD, NY		
FTD -30-1795, Summary of Surface Water and	MP	SEP-2001
Sediment Sampling Results (July 1999 - December		
2000), OSL, 1595, 1795, FD, NY		055 0007
FTD - 91, Full-Scale Dual-Phase Extraction Pilot	EA	SEP-2001
Study Work Plan, AAFES Station, FD, NY		

Final FORT DRUM Installation Action Plan -

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2001			

FTD -91, Groundwater Sampling Results, December 2001 Sampling Event, AAFES Station, FTD, NY

FTD -91, Safety, Health, and Emergency Response	EA	SEP-2001
Plan for the Full-Scale Dual-Phase Extraction Pilot		
Study AAFES Station		
FTD -91, Quarterly Report of Progress - Building P-	EA	OCT-2001
2140 Interim Treatment System Pilot Study, FTD, NY		
FTD -30-3805, Response to Comments for the Draft	MP	OCT-2001
Source Area/LNAPL Focused Technical Selection		
Report, Gas Alley, Area 3805, FD,NY		
FTD -91, Groundwater Sampling Results, Sept. 2001	EA	OCT-2001
Sampling Event, AAFES Station, FTD, NY		
FTD -91, Quarterly Report of AAS System Operation -	EA	OCT-2001
AAFES Station, FTD, NY,		
FTD -30-1395, Quarterly Report of System Operation	EA	NOV-2001
Bioventing and AAS Systems, Areas 1395 and 1495,		
Gas Alley, FTD, NY		
FTD -30-1495, Quarterly Report of System Operation	EA	NOV-2001
- Bioventing and AAS Systems, Areas 1395 and 1495,		
Gas Alley, FTD, NY		
FTD -30-3805, Quarterly Report of Progress, Area	EA	NOV-2001
3805 Pilot Treatment System Study, July-Sept. 2001,		
Gasoline Alley, FTD, NY		
FTD -30-1795, Quarterly Report of Progress - Area	EA	NOV-2001
1795 Bioslurping Pilot Study, Gasoline Alley. FTD, NY		
(Jul - Sept 01)		
FTD -30-1595, Summary of Operation and	EA	NOV-2001
Maintenance Technical Support, July- Sept 2001		
Building 1599, FTD, NY		
FTD -91, Final Aquifer Air Sparging Installation and	EA	NOV-2001
Startup Report AAFES Station, FTD, NY		
FTD -30-3805, Final Source Area /LNAPL Focused	MP	NOV-2001
Technical Selection Report Gasoline Alley Areas 1895,	1	
1995, and 3805, FTD, NY		
FTD -30-3805, Final Source Area /LNAPL Focused	MP	NOV-2001
Technical Selection Report Gas Alley Areas 1895,		1101 2001
1995, 3805, FTD, NY (CD)		
FTD -7, Quarterly Report for Phytoremediation Pilot	MP	NOV-2001
Study at the Old Sanitary Landfill, FTD, NY		1101 2001
FTD -91, Final AAS 6-Month Operation Summary	EA	DEC-2001
Report AAFES Station, FTD, NY	271	D20 2001
FTD -30-1295, Final Remedial Pilot Study	EA	DEC-2001
Implementation Report Area 1295, Gasoline Alley, FTD,		DEG 2001
NY		
FTD -91, Final Dual-Phase Extraction Pilot Test	EA	DEC-2001
Summary Report and Conceptual Design AAFES		DE0 2001
Station P-2140, FTD, NY		
FTD -30-1395, Final Aquifer Air Sparging Pilot Study	EA	DEC-2001
Implementation Report Area 1395 and 1495, Gasoline	-/ `	2001
Alley, FTD, NY		
FTD -30-1495, Final Aquifer Air Sparging Pilot Study	EA	DEC-2001
Implementation Report Area 1395 and 1495, Gasoline		DE0-2001
Alley, FTD, NY		
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FTD -30-1395, Quarterly Report of System Operation	EA	JAN-2002
- Bioventing and AAS Systems, Areas 1395 and 1495		JAIN-2002
Gas Alley		
FTD -30-1495, Quarterly Report of System Operation	EA	JAN-2002
- Bioventing and AAS Systems, Areas 1395 and 1495		07114 2002
Gas Alley		
FTD -7, Quarterly Report for Oct - Dec 2001	MP	JAN-2002
Phytoremediation Pilot Study at OSL, FTD, NY	IVIE	JAIN-2002
FTD -30-1795, Quarterly Report of Progress - Area	EA	JAN-2002
1795 Bioslurping Pilot Study, Gasoline Alley, FTD, NY	EA	JAIN-2002
		FED 0000
FTD -91, Quarterly Report of AAS System Operation -	EA	FEB-2002
AAFES Station, FTD, NY (October 1 - December 31,		
2001)	<u> </u>	
FTD -30-3805, Quarterly Report of Progress, Area	EA	FEB-2002
3805 Pilot Treatment System Study, Oct - Dec 2001,		
Gas Alley, FTD		
FTD -30-1295, Oxygen Releasing Compound Pilot	EA	MAR-2002
Study Summary Report, Area 1295, Gasoline Alley,		
FTD, NY		
FTD -20-1395, Aquifer Air Sparging Pilot Study One-	EA	MAR-2002
Year Summary Letter Report, Area 1395, Gasoline		
Alley, FTD, NY		
FTD -20-1495, Aquifer Air Sparging Pilot Study One-	EA	MAR-2002
Year Summary Letter Report, Area 1495, Gasoline		
Alley, FTD, NY		
FTD -30-3805, Final Work Plan Source Area Remedial	MP	APR-2002
Design Gasoline Alley Areas 3805 & 1995, FTD, NY		
FTD -30-3805, Final Work Plan Source Area Remedial	MP	APR-2002
Design Gasoline Alley Areas 3805 & 1995, FTD, NY		
FTD -30, April 2002 Well Gauging for Gasoline Alley,	MP	MAY-2002
FTD, NY		
FTD -30-3805, Final Cost Estimate Source Area	MP	JUN-2002
Remedial System Gasoline Alley Areas 3805 & 1995,		0011 2002
FTD, NY		
FTD -30, Final October 2001 Groundwater Monitoring	MP	JUL-2002
Gasoline Alley & Surface Water & Sediment Areas	1411	00L 2002
1595, 1795, OSL		
FTD -91, Quarterly Report of Progress, O&M, Areas	EA	JUL-2002
1395, 1495, 1595, 1795, 3805, and AAFES Station,		JUL-2002
FTD, NY		
FTD -30-1395, Quarterly Report of Progress, O&M,	EA	JUL-2002
	EA	JUL-2002
Areas 1395, 1495, 1595, 1795, 3805, and AAFES		
Station, FTD, NY		II II 0000
FTD -30-1495, Quarterly Report of Progress, O&M,	EA	JUL-2002
Areas 1395, 1495, 1595, 1795, 3805, and AAFES		
Station, FTD, NY		
FTD -30-1595, Quarterly Report of Progress, O&M,	EA	JUL-2002
Areas 1395, 1495, 1595, 1795, 3805, and AAFES		
Station, FTD, NY	<u> </u>	<u> </u>
FTD -30-1795, Quarterly Report of Progress, O&M,	EA	JUL-2002
Areas 1395, 1495, 1595, 1795, 3805, and AAFES		
Station, FTD, NY		
FTD -30-3805, Quarterly Report of Progress, O&M,	EA	JUL-2002
Areas 1395, 1495, 1595, 1795, 3805, and AAFES		
Station, FTD, NY		

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2002			
	FTD -8, Airfield Sanitary Landfill, FTD, NY Final Report for Annual Groundwater Sampling Performed 10/3-10/4/01 (w disk)	MP	JUL-2002
	FTD -7, Final Data Gap Study Report to Support CMS Gasoline Alley and OSL, FTD, NY (includes CD)	MP	JUL-2002
	FTD -30-3805, Final Data Gap Study Report to Support CMS Gasoline Alley and OSL, FTD, NY (includes CD)	MP	JUL-2002
	Final Risk Assessment, FTD, NY (Eight sites; Ranges 17& 35, T-91, T-1245, P-2140, T-4006, ASL, Nr. R17)	MP	SEP-2002
	Quarterly Report of Progress (Jun - Aug 2002), O&M, Areas 1395, 1495, 1595, 1795, 3805, AAFES	EA	OCT-2002
	FTD -22, EOD Burn Sites, Ranges 17 and 35 Subpart X Permit Withdrawal Request,	MP	NOV-2002
	FTD -22, EOD Burn Sites, Ranges 17 and 35 Subpart X Permit Withdrawal Request,	MP	NOV-2002
2003			
	FTD -91, Quarterly Report of Progress, (Sep-Nov 02) O&M, Areas 1395, 1495, 1595, 1795, 3805, and AAFES Station, FTD, NY	EA	JAN-2003
	FTD -30-1395, Quarterly Report of Progress, (Sep- Nov 02) O&M, Areas 1395, 1495, 1595, 1795, 3805, and AAFES Station, FTD, NY	EA	JAN-2003
	FTD -30-1495, Quarterly Report of Progress, (Sep- Nov 02) O&M, Areas 1395, 1495, 1595, 1795, 3805, and AAFES Station, FTD, NY	EA	JAN-2003
	FTD -30-3805, Quarterly Report of Progress, (Sep- Nov 02) O&M, Areas 1395, 1495, 1595, 1795, 3805, and AAFES Station, FTD, N	EA	JAN-2003
	FTD -30-1595, Quarterly Report of Progress, (Sep- Nov 02) O&M, Areas 1395, 1495, 1595, 1795, 3805, and AAFES Station, FTD, NY	EA	JAN-2003
	FTD -30-1795, Quarterly Report of Progress, (Sep- Nov 02) O&M, Areas 1395, 1495, 1595, 1795, 3805, and AAFES Station, FTD, NY	EA	JAN-2003
	FTD -7, Quarterly Report for Oct - Dec 2002 Phytoremediation Pilot Study at the OSL, FTD, NY	MP	MAR-2003
	FTD -30-3805, Storm water Pollution Prevention Plan Areas 1895, 1995, and 3805, FTD, NY	EA	APR-2003
	FTD -30-3805, Environmental Protection Plan for Source Area Remediation Gasoline Alley Areas 3805 and 1995, FTD, NY	CAPE	APR-2003
	2002 Basewide Groundwater, Surface Water, and Sediment Monitoring Gasoline Alley, FTD, NY (Volumes I, & II)	MP	APR-2003
	Quarterly Report of Progress (Dec. 2002 - Feb. 2003) O&M, Areas 1395, 1495, 1595, 1795, 3805, AAFES	EA	APR-2003
	FTD -7, Quarterly Report for Jan - Mar 2003 Phytoremediation Pilot Study at the OSL, FTD, NY	MP	MAY-2003
	Airfield Sanitary Landfill (ASL) Test Pit Investigation Letter Report of Findings (to identify northern edge of cap)	MP	JUN-2003
	FTD -91, Final Corrective Measures Study Army Air Force Exchange Service Station Fort Drum, New York	EA	JUN-2003

	Title	Author	Date
2003			
	Quarterly Report of Progress (Mar - May 2003) O&M Areas 1395, 1495, 1595, 1795, 3805 and AAFES	EA	JUL-2003
	FTD -30-3805, Final Work Plan for Source Area	CAPE	JUL-2003
	Remediation Gasoline Alley, Areas 3805 and 1995 at		
	FTD, NY		
	FTD -30-1595, Final Corrective Measures Study Area 1595 Gasoline Alley, FTD, NY	EA	JUL-2003
	FTD -91, Final Operations and Maintenance Manual Full-Scale Dual-Phase Extraction Pilot Study AAFES	EA	AUG-2003
	Station, FTD (w Appendix)		1110 0000
	FTD -91, Final Installation and Startup Report for Full-	EA	AUG-2003
	Scale Dual-Phase Extraction Pilot System AAFES, FTD, NY		
	FTD -7, Quarterly Report for April - June 2003	MP	AUG-2003
	Phytoremediation Pilot Study at the OSL, FTD, NY Data	···	7100 2000
	Gap Study		
	Quarterly Report of Progress (Jun - Aug 2003), O&M, Areas 1395, 1495, 1595, 1795, 3805, AAFES	EA	SEP-2003
	Final 2002 Basewide Groundwater, Surface Water, and	MP	NOV-2003
	Sediment Monitoring Report (Replacement Pages, disk)		
2004			
	Final Risk Assessments Fort Drum, NY (CD) (all risk assessed sites except NJANG and T-4002)	MP	JAN-2004
	Quarterly Report of Progress (Sep - Nov 2003), O&M, Areas 1395, 1495, 1595, 1795, 3805, AAFES	EA	JAN-2004
	FTD -30-1395, Post-Termination Monitoring Program	MP	FEB-2004
	Bioventing/AAS Treatment Systems Areas 1395/1495, FTD, NY		
	FTD -30-1495, Post-Termination Monitoring Program	MPF	FEB-2004
	Bioventing/AAS Treatment Systems Areas 1395/1495, FTD, NY		
	FTD -30-3805, As-Built Construction Drawings Source	CAPE	FEB-2004
	Area Remedial Systems, Gasoline Alley Areas 3805		
	and 1995 (CD included)		1.55
	FTD -30-1595, Final Chemical Oxidation Pilot Study Report Gasoline Alley Area 1595, FTD, NY	MP	APR-2004
	Quarterly Report of Progress (Dec. 2003 - Feb. 2004)	EA	APR-2004
	O&M Areas 1395, 1495, 1595, 1795, 3805, AAFES FTD -72, Final Addendum for NJANG Pond and T-	MP	APR-2004
	4002 to the Final Risk Assessment (4 reports + 1 CD)	1011	AI IX-2004
	FTD -76, Final Addendum for NJANG Pond and T-	MP	APR-2004
	4002 to the Final Risk Assessment (4 reports + 1 CD)	CARE	ADD 2004
	FTD-30-3805, Well Development Logs for Source Remediation Areas 3805/1995, FTD, NY + various	CAPE	APR-2004
	submittals		
	2003 Basewide Groundwater and Surface Water	MP	MAY-2004
	Monitoring Report, FTD, NY (Volumes I & II)		1001
	FTD -30-1795, Final Corrective Measures Study Area	EA	JUN-2004
	1795 Gasoline Alley, FTD, NY		
	Quarterly Report of Progress (Mar - May 2004) O&M	EA	JUN-2004
	Areas 1395, 1495 1595, 1795 and AAFES, FTD, NY	l OADE	ALIO 000 t
	FTD -30-3805, Final O&M Report for Source Area	CAPE	AUG-2004
	Remediation Gas Alley Area 3805 & 1995, FTD (Jan - Mar 2004)		

Date

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Title

FTD -7, Semiannual Progress Report Phytoremediation	MP	AUG-2004
Pilot Study (Jan - Jun 2004)		
FTD -30-3805, Safety, Health, Emergency Response	CAPE	AUG-2004
Plan Addendum for MPE/AAS System Operation Areas		
3805/1995		
FTD -30-3805, O&M Manual for MPE System Fort	CAPE	AUG-2004
Drum Area 3805-C, FTD, NY (CD included)		
FTD -30-3805, O&M Manual for MPE System Fort	CAPE	AUG-2004
Drum Area 3805-A & B, FTD, NY (CD included)		
FTD -30-3805, Final O&M Report (Apr - Jun 2004)	CAPE	AUG-2004
Multi-Phase Extraction and AAS Systems Areas 3805		
and 1995, FTD		
Quarterly Report of Progress (June - Aug 2004) O&M	EA	SEP-2004
Areas 1395, 1495, 1595, 1795, and AAFES, FTD, NY		
FTD -30-3805, Final As-Built Drawings for Source	CAPE	SEP-2004
Area Remedial System Gasoline Alley Areas 3805 and		
1995, FTD, NY		
FTD -30-3805, O&M Manual for CAPE Environmental,	CAPE	SEP-2004
FTD, NY (Global Technologies; Catalytic Oxidizer Unit)		
FTD -30-3805, Final O&M Report (Jul - Sept 2004)	CAPE	OCT-2004
Multi-Phase Extraction and AAS Systems Areas 3805		
and 1995, FTD		
Final Groundwater Seep Sampling Monitoring Report	MP	NOV-2004
Old Sanitary Landfill		
Fort Drum 2003 Basewide Groundwater and Surface	MP	NOV-2004
Water Monitoring report & disk (new cover for draft only)		
Quarterly Report of Progress (Sep - Nov 2004) O&M	EA	DEC-2004
Areas 1395, 1495, 1595, 1795, and AAFES Station		

Author

FTD -30-3805, O&M Manual for MPE System Fort	CAPE	JAN-2005
Drum Area 1995, FTD, NY (System D); disk included		
FTD -7, Statistical Analysis to Support the CMS:	CAPE	FEB-2005
Gasoline Alley Areas 1895, 1995, & 3805 and OSL		
FTD -30-3805, Statistical Analysis to Support the	CAPE	FEB-2005
CMS: Gasoline Alley Areas 1895, 1995, & 3805 and		
OSL		
FTD -7, Semiannual Progress Report Phytoremediation	MP	MAR-2005
Pilot Study (Jul - Dec 2004)		
FTD -112, Investigation and Closure Report Training	MP	MAR-2005
Site POL Contamination Near Range 17, FTD, NY		
FTD -30-3805, O&M Report (Jan-Feb 2005) MPE and	CAPE	MAR-2005
AAS Systems Areas 3805 and 1995, FTD, NY		
FTD -30-1595, Storm water Pollution Prevention Plan	CAPE	APR-2005
Area 1595, Gasoline Alley, FTD, NY		
Quarterly Report of Progress (Dec-Feb 2005) O&M	EA	APR-2005
Areas 1395, 1495, 1595, 1795, and AAFES, FTD, NY		
FTD -30-1595, Finial Conceptual Design Plan Area	CAPE	APR-2005
1595, Gasoline Alley, FTD, NY		
2004 Basewide Groundwater and Surface Water	MP	MAY-2005
Monitoring, FTD, NY + CD		
FTD-30-1595, Final Site Safety and Health Plan for	CAPE	JUL-2005
Remedial Design & Remedial Action Gasoline Alley,		
Area 1595		
FTD-30-1595, Final Work Plan for Remedial Design	CAPE	JUL-2005
and Remedial Action Gasoline Alley Area 1595, FTD,		

Date

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Title

NY		
FTD-30-1595, Final Contractor Quality Control Plan for	CAPE	JUL-2005
Remedial Design & Remedial Action Gasoline Alley,		
Area 1595		
	145	4110 0005
FTD-7, Semiannual Progress Report Phytoremediation	MP	AUG-2005
Pilot Study (Jan - Jun 2005)		
FTD -30-3805, O&M Manual for CAPE Environmental	CAPE	SEP-2005
(Global Tech; Catalytic Oxidizer Unit; System D) - Area		
1995 - disk		
FTD-91, Work Plan for Dual-Phase Extraction System	EA	DEC-2005
Enhancements AAFES Station, FTD, NY + CD		
FTD-89, Final Focused Technical Selection Area 1245	MP	DEC-2005
FTD, NY		
FTD-30-3805, Final Corrective Measures Study	MP	DEC-2005
Gasoline Alley Areas 1895, 1995, & 3805, and Old		
Sanitary Landfill, FTD		

Author

FTD-30-1595, Well Drilling & Development Logs for	CAPE	JAN-2006
Remedial Action & Remedial Design Area 1595, FTD,		
NY		
FTD-30-1595, Operations and Maintenance Manual for	CAPE	FEB-2006
SVE & AAS Systems Fort Drum Area 1595, FTD, NY		
2005 Basewide Groundwater and Surface Water	MP	FEB-2006
Monitoring, FTD, NY + CD		
FTD-30-1595, Final As-Built Drawings for Remedial	CAPE	FEB-2006
Action and Remedial Design Gasoline Alley Area 1595,		
FTD, NY + CD		
FTD-30-1595, Startup and First Quarterly O&M	CAPE	MAR-2006
Report (Dec 2005 - Mar 2006) SVE and AAS Systems		
Area 1595, FTD + CD		
FTD-7, Semiannual Progress Report Phytoremediation	MP	MAR-2006
Pilot Study (Jul - Dec 2005) Old Sanitary Landfill, FTD,		
NY		
Quarterly Reports of Progress (Mar 2005 - Feb 2006)	EA	MAR-2006
O&M Areas 1395, 1495, 1595, 1795, 3805 and AAFES		
Quarterly Reports of Progress (Mar 2005 - Feb 2006)	EA	MAR-2006
O&M Areas 1395, 1495, 1595, 1795, 3805 and AAFES		
FTD-30-1795, Final Work Plan for Conceptual	EA	MAR-2006
Remedial Design Area 1795, Gasoline Alley, FTD, NY +		
CD		
FTD-30-1295, Data Report Area 1295 Direct-push	MP	APR-2006
Sampling (October 21, 2005) + CD		
FTD-30-1295, Final Focused Technical Selection Area	MP	APR-2006
1295 FTD, NY + CD		
Final Community Relations Plan for the Fort Drum	EA	APR-2006
Installation Restoration Program, FTD, NY+ 2 CDs		
FTD-030D, Second Quarterly O&M Report (Apr - Jun	CAPE	JUL-2006
2006) SVE and AAS Systems Area 1595, FTD, NY		
(CD)		
FTD-007, Semiannual Progress Report for the	MP	AUG-2006
Phytoremediation Pilot Study (Jan-Jun 2006) Old		
Sanitary Landfill		
FTD-030A, Final In situ Chemical Oxidation Pilot Study	MP	OCT-2006
Work Plan Gasoline Alley Area 1295 FTD, NY		

	Title	Author	Date
2007			
	FTD-007, Final Phytoremediation Pilot Study Work	MP	JAN-2007
	Plan Old Sanitary Landfill, FTD, NY (CD)	IVIP	JAIN-2007
	2006 Basewide Groundwater and Surface Water	MP	FEB-2007
	Monitoring, FTD, NY (CD)	IVII	1 LD-2001
	FTD-007, Final Conceptual Design Work Plan Old	MP	FEB-2007
	Sanitary Landfill Cap Improvements, FTD, NY (CD)	IVIE	FEB-2007
	FTD-007, Semiannual Progress Report for the	MP	MAR-2007
	Phytoremediation Pilot Study (Jul-Dec 2006) Old	IVIE	WAK-2007
	Sanitary Landfill (CD)		
	FTD-030E - Final Accident Prevention Plan Source	Cape	APR-2007
	Area Remediation Project Plans for SVE, AAS, WWII	Cape	AF N-2007
	Area 1795		
	FTD-030E - Final Stormwater Pollution Prevention	Cape	APR-2007
	Plan for Source Area Remediation Gasoline Alley Area	Cape	AFR-2007
	1795		
	Quarterly Reports of Progress (Mar 2006 - Feb 2007)	EA	APR-2007
		LA	AFR-2007
	O&M Areas 1395, 1495, 1595, 1795, 3805 and AAFES FTD-030E - Pre-Design Investigation Work Plan for	Cono	JUN-2007
		Cape	JUN-2007
	WWII Landfill Gasoline Alley Area 1795 FTD-030F - Final Addendum Source Area	Cons	ALIC 2007
		Cape	AUG-2007
	Remediation Gasoline Alley Area 3805C FTD-030E - Final Work Plan Source Area Remediation	Conc	AUG-2007
		Cape	AUG-2007
	SVE, AAS and WWII Landfill Limited Excavation Area		
	1795 FTD-007 - Semiannual Progress Report for	Malcolm Pirnie	SED 2007
		Malcolm Pimie	SEP-2007
	Phytoremediation Pilot Study (Jan - June 2007) Old		
	Sanitary Landfill	Malcolm Pirnie	OCT-2007
	Installation Restoration Program Basewide Monitoring Work Plan	Walcolffi Pirfile	OC1-2007
	FTD-030D - Draft Conceptual Work Plan for Area 1595	Cape	NOV-2007
	Creek Conceptual Remedial Design& Remedial Action,	Cape	140 4-2007
	1595		
2008	1090	I	
2000			
	FTD-030F - As-Built Construction Drawings for Source	Cape	JAN-2008
	Area Remediation Gasoline Alley Area 3805C Well Line		
	Extension		
	FTD-088 and FTD-076 - Areas T-4002 and T-4006	Malcolm Pirnie	JAN-2008
	Site Closure Report		FEB 0000
	FTD-030A - Draft In situ Chemical Oxidation Pilot	Malcolm Pirnie	FEB-2008
	Study Report Gasoline Alley Area 1295		FEB 0000
	2007 Basewide Groundwater and Surface Water	Malcolm Pirnie	FEB-2008
	Monitoring		11111/ 0000
	FTD-007 - Phytoremediation Pilot Study 2007 Annual	Malcolm Pirnie	MAY-2008
	Progress Report Old Sanitary Landfill		11111/ 0000
	FTD-007 - Final Work Plan for Old Sanitary Landfill	Plexus	MAY-2008
	Cap Improvements, Cell 2		
	Quarterly Report of Progress (Mar 2007 Apr 2008) O&M	EA	JUN-2008
	Areas 1395, 1495, 1595, 1795, 3805 and AAFES	 M	
	FTD-076 and FTD-088 - Areas T-4002 and T-4006	Malcolm Pirnie	JUL-2008
	Site Closure Report		1110.0000
	FTD-030A - Final In situ Chemical Oxidation Pilot	Malcolm Pirnie	AUG-2008
	Study Report Gasoline Alley Area 1295		1110 0000
	FTD-030E - Startup and First Quarterly O&M Report	Cape	AUG-2008
	(Dec 2007 - Mar 2008) SVE and AAS Systems Area		

	Title	Author	Date
2008			
	FTD-030E - Second Quarterly O&M Report (Apr - Jun 2008) SVE and AAS Systems Area 1795	Саре	SEP-2008
	FTD-030E Construction Drawings MPE/SVE/AAS Remedial System Area 1795, Gasoline Alley	Cape	SEP-2008
	Quarterly Report of Progress (May-Jun 2008) O&M Areas 1395, 1494, 1595, 1795, 3805, and AAFES	Plexus	SEP-2008
	Fall 2008 Base-wide Monitoring Work Plan Addendum Gasoline alley and AAFES Station Bldg 2140	Plexus	OCT-2008
2009			
	2008 Annual Basewide Groundwater and Surface Water Monitoring Report	Plexus	JAN-2009
	FTD-030A - Final Membrane Interface Probe Investigation Work Plan Gasoline Alley Area 1295	Plexus	MAR-2009
	FTD-030D - Final Membrane Interface Probe Investigation Work Plan Gasoline Alley Area 1595	Plexus	MAR-2009
	FTD-091 - Fort Drum AAFES Service Station Work Plan for Remedial System Modifications	Plexus	MAR-2009
	Quarterly Report of Progress (Nov-Jan 2009) O&M Areas 1395, 1495, 1595, 1795,1995, 3805, AAFES Service Station	Plexus	MAY-2009
	Draft Remedial System Optimization Report Fort Drum Groundwater Remediation Systems	Plexus	MAY-2009
	Draft Membrane Interface Probe Investigation Report AAFES Building P-2140	Plexus	MAY-2009
	Draft Membrane Interface Probe Investigation Report Gasoline Alley Area 1595	Plexus	MAY-2009
	Draft Membrane Interface Probe Investigation Report Gasoline Alley Area 1295	Plexus	MAY-2009
	Quarterly Report of Progress (Aug-Oct 2009) O&M Areas 1395, 1495, 1595, 1795, 3805 and AAFES Service Station	Plexus	NOV-2009
2010			
	Draft Post-Closure Monitoring and Maintenance Operations Manual Old Sanitary Landfill	Plexus	JAN-2010
	Draft 2009 Annual Basewide Monitoring Report	Plexus	FEB-2010
	Draft Final Project Evaluation Report for Area 1495	Plexus	DEC-2010
	Draft Final Project Evaluation Report for Area 1395	Plexus	DEC-2010
	Draft Final Project Evaluation Report for Area 1245	Plexus	DEC-2010
	Draft Final Project Evaluation Report for Building T-91	Plexus	DEC-2010
	Revised Quarterly Report of Progress (Aug-Oct) O&M Remediation Systems Gasoline Alley and AAFES	Plexus	DEC-2010
	Quarterly Report of Progress (August - October 2010) Operations and Maintenance Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station Fort Drum, New York	Plexus	DEC-2010
2011			
	2010 Draft Annual Basewide Monitoring Report	Plexus	MAR-2011
	Draft Membrane Interface Probe Investigation Work Plan Gasoline Alley Areas 1795 and 3805	Plexus	MAR-2011

	Title	Author	Date	
2011				

Final Source Area Investigation Work Plan Addendum	PARS Environmental	APR-2011
for the Fort Drum PCE Remedial Investigation for		
Solvent Contaminants		
Draft Final Periodic Review Report for Area 1495	Plexus	JUL-2011
Draft Final Periodic Review Report for Area 1395	Plexus	JUL-2011
Draft Final Periodic Review Report for Area 1245	Plexus	JUL-2011
Draft Final Periodic Review Report for Building T-91	Plexus	JUL-2011
Draft Periodic Review Report for Area 1595	Plexus	SEP-2011
Draft Extraction Well Modification Work Plan Gasoline	Plexus	OCT-2011
Alley Area3805		
Draft Pilot Test Results For Nutrient Application at	Plexus	OCT-2011
Building T-91 and Areas 1595, 1245, 1395 and 1495		
FINAL Data Evaluation Report for the Remedial	USACE Baltimore District	NOV-2011
Investigation Nash Boulevard Water Tower		
Quarterly Report of Progress (August 2011 - October	Plexus Scientific	DEC-2011
2011) Operations and Maintenance Remediation	Corporation	
Systems for Gasoline Alley and Army Air Force		
Exchange Service Station Fort Drum, New York		

Quarterly Report of Progress (November 2011 -	Plexus Scientific	MAR-2012
January 2012) Operations and Maintenance	Corporation	
Remediation Systems for Gasoline Alley and Army Air		
Force Exchange Service Station Fort Drum, New York		
Final Report Bench Scale Testing of Remedial	PARS Environmental, Inc.	MAR-2012
Alternatives, Fort Drum PCE Remedial Investigation for		
Solvent Contaminants, Fort Drum, New York		
Area 3805 Gasoline Alley System Modification	Plexus Scientific	JUN-2012
Summary, Fort Drum, New York	Corporation	
2011 Draft Annual Basewide Monitoring Report at Fort	Plexus Scientific	JUN-2012
Drum, New York		
Final Site Monitoring and Management Plan for Building	Plexus Scientific	JUN-2012
T-91	Corporation	
Final Site Monitoring and Management Plan for Area	Plexus Scientific	JUN-2012
1245	Corporation	
Final Site Monitoring and Management Plan for Area	Plexus Scientific	JUN-2012
1395	Corporation	
Final Monitoring and Management Plan for Area 1495	Plexus Scientific	JUN-2012
	Corporation	
Draft Remedial Investigation Report For Chlorinated	PARS Environmental	JUL-2012
Solvent Contaminants at Fort Drum, New York		
Quarterly Report of Progress (February 2012 - April	Plexus Scientific	JUL-2012
2012) Operations and Maintenance Remediation		
Systems for Gasoline Alley and Army Air Force		
Exchange Service Station Fort Drum, New York		
Quarterly Report of Progress (May 2012 - July 2012)	Plexus Scientific	SEP-2012
Operations and Maintenance Remediation Systems for	Corporation	
Gasoline Alley and Army Air Force Exchange Service		
Station Fort Drum, New York		
Draft Work Plan Pilot Testing of Permanganate	PARS Environmental	SEP-2012
Injection, Fort Drum PCE Remedial Investigation for		
Solvent Contaminants, Fort Drum, New York		

	Title	Author	Date
2012			
	Draft Work Plan Limited Subsurface Investigation to Define Waste Limits/Landfill Liner Revised Conceptual Running Track - Airfield Sanitary Landfill, Fort Drum, New York	H2H Associates	OCT-2012
	Draft Bioaugmentation Pilot Study Remedial Action Work Plan Area 1795, Fort Drum, New York	Plexus Scientific Corporation	NOV-2012
	Draft Bioaugmentation Pilot Study Remedial Action Work Plan Area 1595, Fort Drum, New York	Plexus Scientific Corporation	NOV-2012
	Draft Bioaugmentation Pilot Study Remedial Action Work Plan Area 3805, Fort Drum, New York	Plexus Scientific Corporation	NOV-2012
2013			
	Updated Finding Limited Subsurface Investigation to Define Waste Limits/Landfill Liner Revised Conceptual Running Track - Airfield Sanitary Landfill, Fort Drum, New York Letter Report	H2H Associates	FEB-2013
	Quarterly Report of Progress (February 2013-April 2013) Operations and Maintenance Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station, Fort Drum, New York	Plexus Scientific Corporation	JUN-2013
	Draft Final Bioaugmentation Pilot Study Remedial Action Work Plan, AAFES Station Site, Building P- 2140, Fort Drum, New York	Plexus Scientific Corporation	OCT-2013
	Draft Bioaugmentation Pilot Study Remedial Action Work Plan, Area 1295, Fort Drum, New York	Plexus Scientific Corporation	OCT-2013
	Quarterly Report of Progress (May 2013-July 2013) Operations and Maintenance Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station, Fort Drum, New York	Plexus Scientific Corporation	OCT-2013
	Draft Final Bioaugmentation Pilot Study Results Memorandum for Area 1595, 1795, and 3805, Fort Drum, New York	Plexus Scientific Corporation	NOV-2013
	Quarterly Report of Progress (August 2013-October 2013) Operations and Maintenance Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station, Fort Drum, New York	Plexus Scientific Corporation	DEC-2013
2014		ı	
	Draft Bioaugmentation Pilot Study RAWP Addendum for Area 1295, Fort Drum, New York	Plexus Scientific Corporation	JAN-2014
	Draft 2013 Annual Basewide Monitoring Report at Fort Drum, New York	Plexus Scientific Corporation	MAR-2014
	Final Remedial Action Completion Report For Lead Contaminated Soil Removal at the Nash Boulevard Water Tower Site at Fort Drum, New York	Plexus Scientific Corporation	MAR-2014
	Progress Report (November 2013-March 2014 2013) Operations and Maintenance Remediation Systems for Gasoline Alley and Army Air Force Exchange Service Station, Fort Drum, New York	Plexus Scientific Corporation	APR-2014
	Final General Maintenance Completion Report of the Pipe Slope Drain Repair Old Sanitary Landfill, Fort Drum, NY	Plexus	AUG-2014
	Groundwater Sampling Report Gasoline Alley Area 1700	USACE	OCT-2014
	Draft 2014 Annual Basewide Monitoring Report at Fort Drum, NY	Plexus	NOV-2014

2014	Title	Author	Date
	Progress Report (April-September 2014, O&M Remediation Systems for Gasoline Alley and AAFES Station, Fort Drum, NY	Plexus	DEC-2014
2015			
	Final Extended Bioaugmentation Pilot Study Completion Report at Fort Drum, NY	Plexus	JAN-2015

FORT DRUM

Installation Restoration Program
Site Descriptions

Site ID: FTD-007 Site Name: OLD SANITARY LANDFILL



Regulatory Driver: RCRA

RRSE: HIGH

Contaminants of Concern: Metals, Volatiles (VOC)

Media of Concern: Groundwater, Sediment, Soil, Surface

Water

Phases	Start	End
RFA	198010	198107
CS	198110	198509
RFI/CMS	198602	200609
DES	200606	200709
IRA	198506	199909
CMI(C)	200703	200709
LTM	200710	204412

RIP Date: N/A RC Date: 200709

SITE DESCRIPTION

The OSL is located along Route 26. The landfill covers about 50 acres and was operated from 1940 to 1973. It consists of two cells (which may extend to a depth of 40 feet) divided by a ravine. Debris is believed to have been dumped in low spots of the ravine area. The cells have a synthetic cap, soil, and vegetative cover. Leachate, primarily BTEX, seeps out at points along the lower portions of the side slopes into a stream leading off-post at both landfill cells. The plume reconnaissance performed at Gasoline Alley (FTD-030) indicates that area 3805 is contributing to the contamination found at the landfill. Stream monitoring results show that the contamination is primarily limited to the stream bed adjacent to the cells.

In fiscal year (FY) 96 a landfill fence was installed and the vents were upgraded. In FY97 an IRA was conducted to remove debris and drums from the site and stabilize slopes. Slope stabilization and erosion control were completed in FY99. The risk assessment was completed in FY00. In FY01, a pilot phytoremediation project was installed and was successful in addressing contaminants. The groundwater plume appears stable. Limited cap repairs were completed in FY02 and FY03. Additional seep sampling was performed in summer FY04.

A corrective measures study (CMS) which included Gasoline Alley Area 3805 was completed in FY05 and approved by the NYSDEC in April 2006.

In 2007 a full-scale phytoremediation system was installed on the northern slope of OSL Cell 2 and around the unnamed creek between Cell 1 and Cell 2 to attenuate seep contaminants, primarily from 3805 (FTD-0030F). In 2007 cap improvements to the OSL Cell 2, including additional fill, new geomembrane, cover, top soil, and establishment of a minimum four percent slope were initiated and were completed in 2008.

On Feb. 12, 2014 FTD received an Order on Consent and Administrative Action identifying the OSL ongoing measures as in situ remediation by phytoremediation of the seeps, landfill cap enhancements by maintenance, performance monitoring, and long-term operation and maintenance (Appendix B pages 51-52).

CLEANUP/EXIT STRATEGY

Annual groundwater and surface water monitoring will be conducted, cap and phytoremediation system maintenance and fiveyear reviews.

Site ID: FTD-008 Site Name: AIRFIELD SANITARY LANDFILL



Regulatory Driver: RCRA

RRSE: MEDIUM

Contaminants of Concern: Metals

Media of Concern: Groundwater

Phases	Start	End
RFA	198010	198107
CS	198606	198707
RFI/CMS	198402	198708
DES	198909	199003
CMI(C)	198910	199909
LTM	199910	204412

RIP Date: N/A **RC Date:** 199909

SITE DESCRIPTION

The Airfield Sanitary Landfill (ASL), formerly named Existing Landfill, is located near Wheeler Sack Army Airfield and covers approximately 37 acres. Reports indicate that paint wastes, pesticide containers, and POLs saturated wastes were disposed of here between 1973 and 1987. It was capped in 1988 with a polyvinylchloride cover, soil, and vegetation. The landfill is unlined.

In 1994 monitoring wells required by the NYSDEC were installed and quarterly monitoring was initiated. The four quarter monitoring program completed in 1995 indicated no significant impact to the environment.

A draft closure plan was developed in 1991 which recommended upgrading some of the gas vents, adding cover material, and improving drainage. A revised closure plan for the landfill was submitted in October 1995 and finalized in June 1997. A post closure operations and maintenance plan was finalized in September 1997. Cover improvements were completed in FY99. A trend analysis, finalized in 2001, revealed no significant problems. Cover repairs were completed in FY09.

On Feb. 12, 2014 FTD received an Order on Consent and Administrative Action identifying the ASL ongoing measures as landfill maintenance and monitoring (Appendix B pages 36-37).

CLEANUP/EXIT STRATEGY

Landfill cover inspection and maintenance will be conducted annually and groundwater monitoring will be conducted every five years.

Site ID: FTD-030A

Site Name: GASOLINE ALLEY - AREA 1295



Regulatory Driver: RCRA

RRSE: MEDIUM

Contaminants of Concern: Polycyclic Aromatic Hydrocarbons

(PAH), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA	198010	198107
CS	198010	198107
RFI/CMS	199005	200604
DES	200606	200612
CMI(C)	200606	200706
CMI(O)	200706	201509
LTM	201510	201912

RIP Date: 200706 **RC Date:** 201510

SITE DESCRIPTION

Gasoline Alley, located in the cantonment area of FTD, is two miles long, and consisted of diesel, leaded, and unleaded fuel dispensing stations at nine separate areas: 1195, 1295, 1395, 1495, 1595, 1795, 1895, 1995 and 3805. Each area housed several large USTs (each typically 25,000 gallons) and associated piping. The major portion of the contamination is the result of pipes and USTs that leaked.

In 1994, 22 USTs were removed and about 6,000 cubic yards of soil were thermally treated and disposed of off-site. In 1995 all remaining components (pipelines, vaults, valve boxes and dispensing islands) associated with the 22 USTs were removed.

At Area 1295 gasoline and diesel fuel leakage has contaminated soil that is acting as a continued source for groundwater contamination. A pilot system (excavation and oxygen releasing compound [ORC]) was completed in FY00. The ORC was determined to be ineffective.

In FY06 a focused technical selection (FTS) study was completed and approved by the NYSDEC. The FTS recommended in situ chemical oxidation (ISCO) and MNA. Four rounds of ISCO injections were completed in 2006 and 2007 and were determined to be only partially effective. Further attempts at ISCO were aconducted in 2009 and 2010.

On Feb. 12, 2014 FTD received an Order on Consent and Administrative Action referencing continuing investigation/operation of Interim Corrective Measures for Area 1295(Appendix B pages 43-44).

Bio remediation efforts through nutrient enhancement and injection of oxygenated water were attempted from 2011 through 2014.

CLEANUP/EXIT STRATEGY

Optimization and site closure (including well and system removal) and groundwater monitoring will be conducted.

Site ID: FTD-030D

Site Name: GASOLINE ALLEY - AREA 1595



Regulatory Driver: RCRA

RRSE: HIGH

Contaminants of Concern: Polycyclic Aromatic Hydrocarbons

(PAH), Volatiles (VOC)

Media of Concern: Groundwater, Sediment, Soil, Surface

Water

Phases	Start	End
RFA	198010	.198107
CS	.198010	.198107
RFI/CMS	.199005	.200505
DES	.200405	.200509
IRA	.199310	.199509
CMI(C)	.200506	.200606
CMI(O)	.200606	.201509
LTM	.201510	.201912

RIP Date: 200606 **RC Date:** 201510

SITE DESCRIPTION

In 1975, a hole was discovered in a large UST used to fuel Army vehicles at area 1595. The tank was subsequently replaced. Contamination was discovered in a small pond and stream downgradient reaching about 300 feet downstream.

A preliminary assessment was performed and an auto-skimmer was installed at the pond in 1990 and operated until 1994. A site inspection (SI) found free-product in wells. A free-product recovery and contaminated water treatment facility was installed in February 1992. Upgrades to the treatment facility were completed in FY95 and FY97. During FY97, contaminated soil was excavated from the pond and two weirs were constructed for flow measurements.

In FY99 additional recovery wells were installed, subsurface lines were replaced, and the treatment system was enhanced.

In FY00 the pump-and-treat system was upgraded (air stripper), a system evaluation was completed, and the groundwater model was updated. A chemical oxidation pilot study in FY02 indicated that this technology would not be effective.

In 2004 a decision document (DD) was signed.

In April 2004 the final CMS was submitted and approved by the NYSDEC. An SVE/AAS was designed and constructed in FY05 to replace the pump-and-treat system, and is currently operational.

On Feb. 12, 2014 FTD received an Order on Consent and Administrative Action referencing corrective measures for Area 1595 as in situ remediation of subsurface soils and ex situ treatment of collected soil vapor, in situ remediation of groundwater, remediation of sediments in 1595 creek, performance monitoring, and long term operation and maintenance(Appendix B pages 47-48).

Bio remediation efforts through nutrient enhancement and injection of oxygenated water were attempted from 2011 through 2014.

CLEANUP/EXIT STRATEGY

Sampling of groundwater (eight wells) in FY17-19. Closure is expected in 2019, including well abandonment, system decommissioning, and site closeout documentation.

Site ID: FTD-030E

Site Name: GASOLINE ALLEY - AREA 1795/WWII LANDFILL



Regulatory Driver: RCRA

RRSE: HIGH

Contaminants of Concern: Metals, Polycyclic Aromatic

Hydrocarbons (PAH), Volatiles (VOC)

Media of Concern: Groundwater, Sediment, Soil, Surface

Water

Phases	Start	End
RFA	198010	198107
CS	198010	198107
RFI/CMS	199005	200409
DES	200505	200708
CMI(C)	200605	200709
CMI(O)	200709	201509
LTM	201510	201912

RIP Date: 200709 **RC Date:** 201510

SITE DESCRIPTION

Area 1795 was a fuel dispensing area that released POL contamination. In addition, the WWII Landfill [formerly FTD-078, environmental program requirements (EPR) FTDR-029] is a surface dump within area 1795. The landfill, which was discovered in 1989, is approximately 6.5 acres and is heavily wooded. Debris is visible on the surface. The plume reconnaissance performed on Gasoline Alley in 1994 linked the two sites together. Sampling of debris indicated limited polychlorinated biphenyl (PCB) contamination.

At area 1795, a pump-and-treat pilot system was operated from FY96 to FY98 for groundwater depression and separate phase product recovery. This system was discontinued due to limited thickness of the free-product layer. A pilot AAS was tested in FY98 and indicated that this technology would be appropriate as part of a final remedy. A pilot bioslurping system (free-product recovery enhancement) was operated from FY98 to FY00. This system was discontinued due to the high water table.

A final CMS, submitted and approved in June 2004, recommended SVE/AAS treatment systems and limited excavation of the WWII landfill. The design was funded in FY05 and construction of the remedial system was funded in FY06.

Construction of the SVE/AAS systems was completed in 2007 and the systems are currently operational.

On Feb. 12, 2014 FTD received an Order on Consent and Administrative Action referencing corrective measures for Area 1795 as in situ remediation of subsurface soils and ex situ treatment of collected soil vapor, in situ remediation of groundwater, performance monitoring, and long term operation and maintenance(Appendix B pages 48-49).

Bio remediation efforts through nutrient enhancement and injection of oxygenated water were attempted from 2011 through 2014.

CLEANUP/EXIT STRATEGY

Sampling of groundwater (eight wells) FY17-19. Closure is expected in 2019, including well abandonment, system decommissioning, and site closeout documentation.

Site ID: FTD-030F

Site Name: GASOLINE ALLEY - AREA 3805



Regulatory Driver: RCRA

RRSE: HIGH

Contaminants of Concern: Polycyclic Aromatic Hydrocarbons

(PAH), Volatiles (VOC)

Media of Concern: Groundwater, Sediment, Soil, Surface

Water

Phases	Start	End
RFA	198010	198107
CS	198010	198107
RFI/CMS	199005	200604
DES	200106	200609
CMI(C)	200209	200709
CMI(O)	200410	201509
LTM	201510	201912

RIP Date: 200709 **RC Date:** 201510

SITE DESCRIPTION

Area 3805 includes three former fuel storage and dispensing areas (1895, 1995, 3805) whose plumes have commingled. Impacted soil is approximately 850,000 cubic feet. The free-product plume is approximately 450,000 square feet. The dissolved plume extends approximately 1,100 feet and exceeds 400 feet in width. The plume extends under OSL (FTD-007) prior to discharge to the OSL creek. Since 1995, approximately 30,000 gallons of free-product have been removed. An updated groundwater model was completed in September 2000.

A combined CMS for area 3805 and OSL was funded in FY00 and an FTS for the source area was completed in 2001. A MPE system was recommended for the source area. The RD for the source area was completed in 2002 and construction of an MPE and an AAS system was completed in FY04.

In FY05 a combined CMS for areas 3805/OSL was completed and was approved by the NYSDEC in April 2006. A supplemental sparging line was completed in 2007 and is currently operational.

This site is comingled with site CCFD-030G because of a source upgradient of the former USTs. NYSDEC and FTD are managing the contaminants as two separate problems.

On Feb. 12, 2014 FTD received an Order on Consent and Administrative Action referencing corrective measures for Building P-2140 as in situ remediation of subsurface soils and ex situ treatment of collected soil vapor, in situ remediation of groundwater, removal of light non-aqueous phase liquid (LNAPL), performance monitoring, and long-term operation and maintenance (Appendix B pages 49-50).

Bioremediation efforts through nutrient enhancement and injection of oxygenated water were attempted from 2011 through 2014.

CLEANUP/EXIT STRATEGY

Operation of the MPE and AAS systems will continue at the source area and bio augmentation injections are anticipated in FY16 followed by sampling of groundwater (eight wells) FY17-19. Closure is expected in 2019, including well abandonment, system decommissioning, and site closeout documentation.

Site ID: FTD-091 Site Name: BLDG P-2140 USTS



Regulatory Driver: RCRA

RRSE: HIGH

Contaminants of Concern: Volatiles (VOC)

Media of Concern: Groundwater, Soil, Surface Water

Phases	Start	End
RFA	199403	199409
CS	199403	199409
RFI/CMS	199403	200109
IRA	199506	200112
CMI(C)	200109	200112
CMI(O)	200201	201509
LTM	201510	201912

RIP Date: 200201 **RC Date:** 201510

SITE DESCRIPTION

Building P-2140 is an active AAFES gas station. In 1993 five fuel storage USTs were removed and three USTs were installed as replacements in a different area of the site. Contamination from prior activities was observed during excavation.

An SI completed in 1994 showed the dissolved portion of the plume migrating toward the Installation boundary. An RA for free-product recovery and groundwater treatment was initiated in FY95. Approximately 1,400 gallons of free-product have been recovered. This system has since been replaced by a DPE system in the source area.

In FY99 and FY00 the plume was further delineated and additional wells were installed. An air sparge (with ozone) pilot system was installed in January 2001. Sampling at the boundary detected BTEX and methyl tertiary-butyl ether (MTBE) contamination. Currently, two air sparging lines are installed in downgradient sections of the plume to address dissolved phase contamination. The system is operating effectively.

In January 2002 the full scale DPE pilot was installed to address separate phase contamination in the source area.

The CMS was completed and approved by the NYSDEC April 2004.

In FY05 an AAS with ozone was added in the source area to augment the DPE. The DPE and AAS systems are currently operational. The downgradient AAS with ozone system was shut down in March 2009 with concurrence of NYSDEC. In 2009 AAS ozone technology has been applied in the source area.

On Feb. 12, 2014 FTD received an Order on Consent and Administrative Action referencing corrective measures for Building P-2140 as in situ remediation of subsurface soils and ex situ treatment of collected soil vapor, in situ remediation of groundwater, removal of LNAPL, performance monitoring, and long term operation and maintenance(Appendix B page 49-50).

Bio remediation efforts through nutrient enhancement and injection of oxygenated water were attempted from 2011 through 2014.

CLEANUP/EXIT STRATEGY

Bio augmentation injections are anticipated in FY16 followed by sampling of groundwater (eight wells) FY17-19. Closure is expected in 2019, including well abandonment, system decommissioning, and site closeout documentation.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTD-001	HAZARDOUS WASTE STORAGE BLDG T-4819	198707	Consent Order dated February 12, 2014
FTD-002	DEFOLIENT TEST SITE	198608	Consent Order dated February 12, 2014
FTD-003	SEWAGE TREATMENT PLANT	199410	Consent Order dated February 12, 2014
FTD-004	NEW WASHRACK FACILITY	198707	Consent Order dated February 12, 2014
FTD-005	GARBAGE CAN WASHOUT FACILITY	198707	Consent Order dated February 12, 2014
FTD-006	WASHRACK HOLDING PONDS	198707	Consent Order dated February 12, 2014
FTD-009	FIELD DUMPS (SWMU FTD-09,15,16,17,19)	198707	Consent Order dated February 12, 2014
FTD-010	LANDFILL (OPER 1978-80)	198707	Consent Order dated February 12, 2014
FTD-011	LANDFILL (1950 LOCATION UNKNOWN)	198707	Consent Order dated February 12, 2014
FTD-012	ABANDONED LANDFILL NEAR DEFERIET	199705	Consent Order dated February 12, 2014
FTD-013	LANDFILL NEAR CARTHAGE CITY	198707	Consent Order dated February 12, 2014
FTD-014	CLOSED LANDFILL (NEAR FTD-013)	198707	Consent Order dated February 12, 2014
FTD-020	LANDFILL NEAR SOMERVILLE	198707	Consent Order dated February 12, 2014
FTD-022	EOD DISPOSAL SITE, BURN PITS (RANGE 17)	200306	Consent Order dated February 12, 2014
FTD-024	U.S. AIR FORCE EOD SITE (RANGE 35)	200306	Consent Order dated February 12, 2014
FTD-025	OLD HOSFORD SWIMMING POOL	199509	Consent Order dated February 12, 2014
FTD-027	POL SLUDGE BURIAL PIT	198707	Consent Order dated February 12, 2014
FTD-028	FIRE FIGHTER TRAINING AREA	199110	Consent Order dated February 12, 2014
FTD-030B	GASOLINE ALLEY - AREA 1395	201310	Consent Order dated February 12, 2014
FTD-030C	GASOLINE ALLEY - AREA 1495	201310	Consent Order dated February 12, 2014
FTD-031	BUILDING T-91	201310	Consent Order dated February 12, 2014
FTD-032	POL STORAGE UST (2) BLDG T-93	198107	Consent Order dated February 12, 2014
FTD-033	WASTE POL STORAGE UST BLDG T-198	198107	Consent Order dated February 12, 2014
FTD-072	NEW JERSEY ANG POND	200309	Consent Order dated February 12, 2014
FTD-073	NYANG MAINTENANCE SHOP	198707	Consent Order dated February 12, 2014
FTD-074	DOL BATTERY SHOP BLDG P-44	199709	Consent Order dated February 12, 2014
FTD-075	DOL MAINTENANCE SHOP	198707	Consent Order dated February 12, 2014
FTD-076	PESTICIDE/HERBICIDE STORAGE BLDG T-4002	199909	Consent Order dated February 12, 2014
FTD-077	HAZARDOUS WASTE STORAGE SITE BLDG S-2005	199310	Consent Order dated February 12, 2014
FTD-079	INFECTIOUS WASTE INCINERATOR	198707	Consent Order dated February 12, 2014
FTD-081	SPRAY BOOTH BLDG T-197	199303	Consent Order dated February 12, 2014
FTD-082	DRMO OFFICE (YARD)	198707	Consent Order dated February 12, 2014
FTD-083	PAINT DUMP	199306	Consent Order dated February 12, 2014
FTD-085	OLD POL DRYING BEDS	199705	Consent Order dated February 12, 2014
FTD-086	OLD POL STORAGE YARD	199303	Consent Order dated February 12, 2014
FTD-087	SAGE COMPLEX USTS	199707	NFA letter dated Nov 1997
FTD-088	BLDG T-4006 UST	200709	Consent Order dated February 12, 2014

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTD-089	BLDG 1245 UST	201310	Consent Order dated February 12, 2014
FTD-090	BLDG T-2180 UST	199409	Consent Order dated February 12, 2014
FTD-092	BLDG T-2195 UST	199506	Consent Order dated February 12, 2014
FTD-093	SAGE COMPLEX STORM SEWER OUTFALL	199711	NFA letter dated Nov 1997
FTD-094	FORMER PESTICIDE STORAGE BLDG S2517	199707	Consent Order dated February 12, 2014
FTD-110	AIRFIELD WATER TOWER	201309	Consent Order dated February 12, 2014
FTD-111	T-2161 WATER TOWER	201308	Consent Order dated February 12, 2014
FTD-112	TRAINING SITE POL CONTAM. NEAR RANGE 17	200409	Consent Order dated February 12, 2014
FTD-113	HAZARDOUS WASTE STORAGE BLDG 11144	199612	Consent Order dated February 12, 2014
PBA@FortDru m	PBA at Fort Drum	201412	

Date of IRP Inception: 198010

Past Phase Completion Milestones

1981

CS (FTD-002 - DEFOLIENT TEST SITE, FTD-003 - SEWAGE TREATMENT PLANT, FTD-030A - GASOLINE

ALLEY - AREA 1295, FTD-030B - GASOLINE ALLEY - AREA 1395, FTD-030C - GASOLINE ALLEY - AREA 1495, FTD-030D - GASOLINE ALLEY - AREA 1595, FTD-030E - GASOLINE ALLEY - AREA 1795/WWII LANDFILL, FTD-030F - GASOLINE ALLEY - AREA 3805, FTD-031 - BUILDING T-91, FTD-032 - POL

STORAGE UST (2) BLDG T-93, FTD-033 - WASTE POL STORAGE UST BLDG T-198)

PA (FTD-022 - EOD DISPOSAL SITE, BURN PITS (RANGE 17))

RFA (FTD-002 - DEFOLIENT TEST SITE, FTD-003 - SEWAGE TREATMENT PLANT, FTD-004 - NEW

WASHRACK FACILITY, FTD-005 - GARBAGE CAN WASHOUT FACILITY, FTD-006 - WASHRACK HOLDING PONDS, FTD-007 - OLD SANITARY LANDFILL, FTD-008 - AIRFIELD SANITARY LANDFILL, FTD-009 - FIELD DUMPS (SWMU FTD-09,15,16,17,19), FTD-010 - LANDFILL (OPER 1978-80), FTD-011 - LANDFILL (1950 LOCATION UNKNOWN), FTD-013 - LANDFILL NEAR CARTHAGE CITY, FTD-014 - CLOSED LANDFILL (NEAR FTD-013), FTD-020 - LANDFILL NEAR SOMERVILLE, FTD-024 - U.S. AIR FORCE EOD SITE (RANGE 35), FTD-025 - OLD HOSFORD SWIMMING POOL, FTD-027 - POL SLUDGE BURIAL PIT, FTD-030A - GASOLINE ALLEY - AREA 1295, FTD-030B - GASOLINE ALLEY - AREA 1395, FTD-030C - GASOLINE ALLEY - AREA 1495, FTD-030D - GASOLINE ALLEY - AREA 1595, FTD-031 - BUILDING T-91, FTD-032 - POL STORAGE UST (2) BLDG T-93, FTD-033 - WASTE POL STORAGE UST BLDG T-198,

PBA@FortDrum - PBA at Fort Drum)

1985

CS (FTD-007 - OLD SANITARY LANDFILL)

1986

RFI/CMS (FTD-002 - DEFOLIENT TEST SITE)

1987

RFA (FTD-001 - HAZARDOUS WASTE STORAGE BLDG T-4819, FTD-028 - FIRE FIGHTER TRAINING AREA,

FTD-072 - NEW JERSEY ANG POND, FTD-073 - NYANG MAINTENANCE SHOP, FTD-074 - DOL

BATTERY SHOP BLDG P-44, FTD-075 - DOL MAINTENANCE SHOP, FTD-076 - PESTICIDE/HERBICIDE STORAGE BLDG T-4002, FTD-077 - HAZARDOUS WASTE STORAGE SITE BLDG S-2005, FTD-079 - INFECTIOUS WASTE INCINERATOR, FTD-081 - SPRAY BOOTH BLDG T-197, FTD-082 - DRMO OFFICE

(YARD), FTD-083 - PAINT DUMP)

CS (FTD-001 - HAZARDOUS WASTE STORAGE BLDG T-4819, FTD-004 - NEW WASHRACK FACILITY, FTD-

005 - GARBAGE CAN WASHOUT FACILITY, FTD-006 - WASHRACK HOLDING PONDS, FTD-008 - AIRFIELD SANITARY LANDFILL, FTD-009 - FIELD DUMPS (SWMU FTD-09,15,16,17,19), FTD-010 - LANDFILL (OPER 1978-80), FTD-011 - LANDFILL (1950 LOCATION UNKNOWN), FTD-013 - LANDFILL NEAR CARTHAGE CITY, FTD-014 - CLOSED LANDFILL (NEAR FTD-013), FTD-020 - LANDFILL NEAR SOMERVILLE, FTD-024 - U.S. AIR FORCE EOD SITE (RANGE 35), FTD-025 - OLD HOSFORD SWIMMING POOL, FTD-027 - POL SLUDGE BURIAL PIT, FTD-028 - FIRE FIGHTER TRAINING AREA, FTD-072 - NEW JERSEY ANG POND, FTD-073 - NYANG MAINTENANCE SHOP, FTD-075 - DOL MAINTENANCE SHOP, FTD-076 - PESTICIDE/HERBICIDE STORAGE BLDG T-4002, FTD-077 - HAZARDOUS WASTE STORAGE SITE BLDG S-2005, FTD-079 - INFECTIOUS WASTE INCINERATOR, FTD-081 - SPRAY BOOTH BLDG T-

197, FTD-082 - DRMO OFFICE (YARD), FTD-083 - PAINT DUMP)

SI (FTD-022 - EOD DISPOSAL SITE, BURN PITS (RANGE 17))

RFI/CMS (FTD-008 - AIRFIELD SANITARY LANDFILL)

1990

DES (FTD-008 - AIRFIELD SANITARY LANDFILL)

RFI/CMS (FTD-077 - HAZARDOUS WASTE STORAGE SITE BLDG S-2005)

1991

DES (FTD-077 - HAZARDOUS WASTE STORAGE SITE BLDG S-2005)

1992

RFA (FTD-087 - SAGE COMPLEX USTS, FTD-088 - BLDG T-4006 UST)

RFI/CMS (FTD-028 - FIRE FIGHTER TRAINING AREA)

CS (FTD-087 - SAGE COMPLEX USTS)

1993

CS (FTD-086 - OLD POL STORAGE YARD)
RFA (FTD-086 - OLD POL STORAGE YARD)

RFI/CMS (FTD-003 - SEWAGE TREATMENT PLANT, FTD-081 - SPRAY BOOTH BLDG T-197, FTD-083 - PAINT

DUMP)

1994

DES (FTD-003 - SEWAGE TREATMENT PLANT, FTD-076 - PESTICIDE/HERBICIDE STORAGE BLDG T-4002)
RFA (FTD-089 - BLDG 1245 UST, FTD-090 - BLDG T-2180 UST, FTD-091 - BLDG P-2140 USTS, FTD-093 -

SAGE COMPLEX STORM SEWER OUTFALL)

CS (FTD-074 - DOL BATTERY SHOP BLDG P-44, FTD-088 - BLDG T-4006 UST, FTD-089 - BLDG 1245 UST,

FTD-090 - BLDG T-2180 UST, FTD-091 - BLDG P-2140 USTS)

RFI/CMS (FTD-076 - PESTICIDE/HERBICIDE STORAGE BLDG T-4002)
CMI(C) (FTD-077 - HAZARDOUS WASTE STORAGE SITE BLDG S-2005)

1995

RFA (FTD-092 - BLDG T-2195 UST, FTD-110 - AIRFIELD WATER TOWER, FTD-111 - T-2161 WATER TOWER,

FTD-113 - HAZARDOUS WASTE STORAGE BLDG 11144)

CS (FTD-092 - BLDG T-2195 UST, FTD-093 - SAGE COMPLEX STORM SEWER OUTFALL, FTD-110 -

AIRFIELD WATER TOWER, FTD-113 - HAZARDOUS WASTE STORAGE BLDG 11144)

IRA (FTD-030D - GASOLINE ALLEY - AREA 1595)

DES (FTD-072 - NEW JERSEY ANG POND)

RFI/CMS (FTD-025 - OLD HOSFORD SWIMMING POOL, FTD-031 - BUILDING T-91, FTD-072 - NEW JERSEY ANG

POND, FTD-087 - SAGE COMPLEX USTS, FTD-093 - SAGE COMPLEX STORM SEWER OUTFALL)

CMI(C) (FTD-003 - SEWAGE TREATMENT PLANT)

1996

DES (FTD-074 - DOL BATTERY SHOP BLDG P-44, FTD-087 - SAGE COMPLEX USTS, FTD-093 - SAGE

COMPLEX STORM SEWER OUTFALL)

RFI/CMS (FTD-024 - U.S. AIR FORCE EOD SITÉ (RANGE 35), FTD-074 - DOL BATTERY SHOP BLDG P-44)

RI/FS (FTD-022 - EOD DISPOSAL SITE, BURN PITS (RANGE 17))

CMI(C) (FTD-087 - SAGE COMPLEX USTS)

1997

CS (FTD-012 - ABANDONED LANDFILL NEAR DEFERIET, FTD-085 - OLD POL DRYING BEDS, FTD-094 -

FORMER PESTICIDE STORAGE BLDG S2517, FTD-112 - TRAINING SITE POL CONTAM, NEAR RANGE 17)

CMI(C) (FTD-072 - NEW JERSEY ANG POND, FTD-074 - DOL BATTERY SHOP BLDG P-44, FTD-076 -

PESTICIDE/HERBICIDE STORAGE BLDG T-4002, FTD-093 - SAGE COMPLEX STORM SEWER OUTFALL)
(FTD-012 - ABANDONED LANDFILL NEAR DEFERIET, FTD-085 - OLD POL DRYING BEDS, FTD-094 -

FORMER PESTICIDE STORAGE BLDG S2517, FTD-112 - TRAINING SITE POL CONTAM. NEAR RANGE 17)

1998

RFA

RFI/CMS (FTD-112 - TRAINING SITE POL CONTAM. NEAR RANGE 17)

1999

IRA (FTD-007 - OLD SANITARY LANDFILL, FTD-089 - BLDG 1245 UST, FTD-112 - TRAINING SITE POL

CONTAM. NEAR RANGE 17)

CMI(C) (FTD-008 - AIRFIELD SANITARY LANDFILL)

LTM (FTD-076 - PESTICIDE/HERBICIDE STORAGE BLDG T-4002)

2001

RFI/CMS (FTD-030B - GASOLINE ALLEY - AREA 1395, FTD-030C - GASOLINE ALLEY - AREA 1495, FTD-091 -

BLDG P-2140 USTS)

2002

CMI(C) (FTD-091 - BLDG P-2140 USTS) IRA (FTD-091 - BLDG P-2140 USTS)

2003

LTM (FTD-022 - EOD DISPOSAL SITE, BURN PITS (RANGE 17), FTD-024 - U.S. AIR FORCE EOD SITE (RANGE

35), FTD-072 - NEW JERSEY ANG POND)

2004

LTM (FTD-112 - TRAINING SITE POL CONTAM. NEAR RANGE 17)
RFI/CMS (FTD-030E - GASOLINE ALLEY - AREA 1795/WWII LANDFILL)

2005

RFI/CMS (FTD-030D - GASOLINE ALLEY - AREA 1595, FTD-089 - BLDG 1245 UST)

DES (FTD-030D - GASOLINE ALLEY - AREA 1595)

2006

DES (FTD-030F - GASOLINE ALLEY - AREA 3805)

CMI(C) (FTD-030D - GASOLINE ALLEY - AREA 1595, FTD-031 - BUILDING T-91)

RFI/CMS (FTD-007 - OLD SANITARY LANDFILL, FTD-030A - GASOLINE ALLEY - AREA 1295, FTD-030F -

GASOLINE ALLEY - AREA 3805)

2007

LTM (FTD-088 - BLDG T-4006 UST)

CMI(C) (FTD-007 - OLD SANITARY LANDFILL, FTD-030A - GASOLINE ALLEY - AREA 1295, FTD-030E -

GASOLINE ALLEY - AREA 1795/WWII LANDFILL, FTD-030F - GASOLINE ALLEY - AREA 3805)

DES (FTD-007 - OLD SANITARY LANDFILL, FTD-030A - GASOLINE ALLEY - AREA 1295, FTD-030E -

GASOLINE ALLEY - AREA 1795/WWII LANDFILL)

2012

CMI(C) (FTD-030B - GASOLINE ALLEY - AREA 1395, FTD-030C - GASOLINE ALLEY - AREA 1495, FTD-089 -

BLDG 1245 UST)

CMI(O) (FTD-030B - GASOLINE ALLEY - AREA 1395, FTD-030C - GASOLINE ALLEY - AREA 1495, FTD-031 -

BUILDING T-91, FTD-089 - BLDG 1245 UST)

2013

CS (FTD-111 - T-2161 WATER TOWER)
IRA (FTD-111 - T-2161 WATER TOWER)

2014

LTM (FTD-030B - GASOLINE ALLEY - AREA 1395, FTD-030C - GASOLINE ALLEY - AREA 1495, FTD-031 -

BUILDING T-91, FTD-089 - BLDG 1245 UST)

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: 201207

Schedule for Next Five-Year Review: 2015

Estimated Completion Date of IRP at Installation (including LTM phase): 204412

FORT DRUM IRP Schedule

							= phase u	nderway
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTD-007	OLD SANITARY LANDFILL	LTM						
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTD-008	AIRFIELD SANITARY LANDFILL	LTM						
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTD-030A	GASOLINE ALLEY - AREA 1295	LTM						
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTD-030D	GASOLINE ALLEY - AREA 1595	LTM						
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTD-030E	GASOLINE ALLEY - AREA 1795/WWII LANDFILL	LTM						
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
			FIIO	FII/	LIIO	FI 19	F I ZU	FIZIŦ
FTD-030F	GASOLINE ALLEY - AREA 3805	LTM						
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTD-091	BLDG P-2140 USTS	LTM						

FORT DRUM

Army Defense Environmental Restoration Program Compliance Restoration

CR Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 14/11

Installation Site Types with Future and/or Underway Phases

3 Contaminated Ground Water

(CCFD-030G, CCFD-030H, CCFD-114)

Most Widespread Contaminants of Concern

Petroleum, Oil and Lubricants (POL), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern

Groundwater, Soil

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

Site ID	Site Name	Action	Remedy	FY
CCFD10168	P-10168	IRA	REMOVAL	2010
CCFD10170	P-10170	IRA	FREE PRODUCT RECOVERY	2010
CCFD10470 E	P-10470 East	IRA	FREE PRODUCT RECOVERY	2010
CCFD10580	P-10580	IRA	REMOVAL	2010
CCFD10660	P-10660	IRA	REMOVAL	2010
CCFD10660 E	P-10660 East	IRA	FREE PRODUCT RECOVERY	2010
CCFD10680 W	P10680 West	IRA	FREE PRODUCT RECOVERY	2010
CCFD4475E	4475 East	IRA	FREE PRODUCT RECOVERY	2010
CCFD4482	4482	IRA	REMOVAL	2010
CCFD4485E	4485 East	IRA	FREE PRODUCT RECOVERY	2010
CCFD10470 W	P-10470 West	IRA	FREE PRODUCT RECOVERY	2011
CCFD-030H	Gasoline Alley Area 1700	IRA	REMOVAL	2015

Duration of CR

Date of CR Inception: 199110

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201806/201806

Date of CR completion including Long Term Management (LTM): 201806

CR Contamination Assessment

Contamination Assessment Overview

Environmental restoration activities include the IRP and Military Munitions Response Program (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-CC (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.

In 2009 a total of 11 UST sites with POL contamination were migrated from the CC program to the CR program. Of these 11 sites, 10 were determined by NYSDEC to require NFA in late-2009. One of these UST sites (CCFD10470W) was actively remediated in-house by FTD, Environmental using vacuum pumping. All 11 UST sites are now NFA by NYSDEC.

In 2010 a new site (CCFD-030G) was added to the CR program when it was determined that solvent PCE contamination, previously identified in conjunction with monitoring at the FTD-030F site, was significant and likely had a different source than the contamination at FTD-030F. This site is currently in the RI phase in order to determine the nature and extent of the PCE contamination. In late 2010 a new site (CCFD-030H) with POL contamination was identified while installing light poles and was added to the CR program. An RI and excavation of soils were carried out in 2013. Groundwater testing occurred in 2014 and site closure is expected in 2015.

Cleanup Exit Strategy

Site CCFD-030G is currently in RI to determine the nature and extent of contamination. Following the RI, an FS will be completed to determine appropriate RAs. An RI/FS was initiated at a new site (CCFD-030H) in FY11 and an IRA (soil excavation) was approved by NYSDEC in 2012. Soil excavation was completed in 2013 and groundwater sampling completed 2014. Report was sent to NYSDEC 2015.

A new site CCFD-114 Well 9 contamination has been identified. The NYSDEC requested further investigation into low levels of contamination to ascertain the source. An RI is planned for 2015.

CR Previous Studies

	Title	Author	Date	
2007				
	Tank Closure Summary 10168	TDK Environmental	AUG-2007	
	Tank Closure Summary 10170	TDK Environmental	AUG-2007	
	Tank Closure Report 10470E	TDK Environmental	AUG-2007	
	Tank Closure Summary 10470W	TDK Environmental	AUG-2007	
	Tank Closure Summary 10580	TDK Environmental	AUG-2007	
	Tank Closure Summary 10660	TDK Environmental	AUG-2007	
	Tank Closure Summary 10660E	TDK Environmental	AUG-2007	
	Tank Closure Summary 10680W	TDK Environmental	AUG-2007	
	Tank Closure Summary 4475E	TDK Environmental	AUG-2007	
	Tank Closure Summary 4482	TDK Environmental	AUG-2007	
	Tank Closure Summary 4485E	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 10168	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 10170	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 10470E	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 10470W	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 10580	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 10660	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 10660E	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 10680W	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 4475E	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 4482	TDK Environmental	AUG-2007	
	Groundwater Investigation Report 4485E	TDK Environmental	AUG-2007	
2009				
	Sample Results Spreadsheet 10168, 10170, 10470E, 10470W, 10580, 10660, 10660E, 10680W, 4475E, 4482, 4485E	GOEL Services	AUG-2009	
2010	1102, 11002			
	Site Background Summary for the Fort Drum PCE Remedial Investigation for Solvent Contaminants	PARS	MAR-2010	
	Final Work Plan for the Fort Drum PCE Remedial	PARS Environmental	NOV-2010	
2011	Final Source Area Investigation Work Plan Addendum for the Fort Drum PCE Remedial Investigation for Solvent Contaminants	PARS Environmental Inc.	APR-2011	
2012		1		
	Final Report Bench Scale Testing of Remedial Alternatives	PARS Environmental Inc.	MAR-2012	

FORT DRUM

Compliance Restoration
Site Descriptions

Site ID: CCFD-030G

Site Name: Gasoline Alley - 1800, 1900 & 3800

STATUS

Regulatory Driver: CERCLA

Contaminants of Concern: Semi-volatiles (SVOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA	199110	200901
SI	199610	200910
RI/FS	201003	201806

RIP Date: N/A RC Date: 201806

SITE DESCRIPTION

CCFD-030G is located on and near Oneida/Ontario Avenues. There has been documented storage and use of hazardous materials, including solvents, both upgradient and crossgradient of the investigation area. An investigation of historical groundwater chemistry data associated with a BTEX plume at site FTD-030F has indicated the presence of dissolved-phase chlorinated solvents (specifically PCE) in the below the aquifer existing BTEX plume. The findings of the investigation also point to several potential upgradient sources of solvents associated with historical use and poor handling practices at buildings in the CCFD-030G area. In 2009, because the solvent contamination source is likely upgradient of the BTEX plume source and vertically separated from the BTEX plume and will require different remedial technologies, a new IRP site was established and in FY10 a site investigation (SI) to determine the nature and extent of the contamination was initiated and is ongoing.

The identified contaminant of concern is PCE; however, related solvents and relevant breakdown products may be present. It is suspected that releases from the site have contaminated soils and groundwater beneath the site and migrated northwesterly within FTD property. In addition, PCE contamination has been found at depth in the vicinity of the FTD-030F petroleum plume and FTD-007 OSL. An RI funded in FY10 to determine the nature and extent of PCE contamination is ongoing. An ISCO pilot study was completed in 2013. Another round of ISCO is planned for spring 2015 and a FS is expected fall 2015.

CLEANUP/EXIT STRATEGY

ISCO 2015, FS 2015 with hot spot treatment as needed.

Site ID: CCFD-030H Site Name: Gasoline Alley Area 1700



Regulatory Driver: CERCLA

Contaminants of Concern: Petroleum, Oil and Lubricants

(POL)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA	201009	201009
SI	201009	201506
IRA	201203	201506

RIP Date: N/A RC Date: 201506

SITE DESCRIPTION

Gasoline Alley is located in the developed cantonment area on the southwest corner of FTD. The two-mile long thoroughfare consists of two parallel one-way streets, Oneida and Ontario Avenues, and an associated unpaved median, and is used as one of the main traffic routes. Vehicle and equipment storage and maintenance areas are located along the thoroughfare. Gasoline Alley has been used for fuel storage and dispensing at least since the 1940s. Nine fuel dispensing areas were located along Gasoline Alley where kerosene, gasoline, diesel fuel, and jet propellant (JP-4) were stored and dispensed from 22 USTs ranging in size from 5,000 to 25,000 gallons. The dispensing areas are referred to as areas 1195, 1295, 1395, 1495, 1595, 1795, 1895, 1995, and 3805. The USTs, fuel dispensers, and associated piping were removed in 1994 and 1995.

The CCFD-030H site is located in Area 1700 south of Ontario Ave. and west of Seventh St. West. The Pine Plains delta and surficial aquifer cover the southern one-third of FTD, and fine- to medium-grained sands of the Pine Plains Delta to depths of greater than 45 ft. are present in Gasoline Alley Area 1700. Although there is a groundwater divide south of the site and a secondary divide just east of the site, groundwater movement is thought to be northwest toward the Area 1795 Creek which is immediately west of the site and flows northwest to Remington Pond.

On Sept. 2, 2010, while installing light poles contamination was discovered at approximately six- to eight-feet below grade beneath an apparent fabric material. Test pits were installed in all four directions, approximately 15 feet from the initial pole installation point, and contamination was present in the soil and groundwater at several of these locations. Subsequent analytical results indicated "lube oil" contamination of 8700 mg/kg in the soil and 81 mg/l in the groundwater. The new site is upgradient of the existing FTD-030E Gasoline Alley Area 1795 site and upgradient of the presumed source of the Area 1795 contamination, USTs and piping associated with historic fuel dispensers along Gasoline Alley. This site has been assigned Spill No. 1006064 by NYSDEC.

An SI/IRA was conducted in 2013 and NYSDEC has asked for monitoring wells to be installed to confirm groundwater status. Wells were installed and samples were taken with the report sent to NYSDEC in winter 2015. Anticipate closure in 2015.

CLEANUP/EXIT STRATEGY

An IRA is underway. NFA is anticipated.

Site ID: CCFD-114 Site Name: Well 9 contamination

STATUS

Regulatory Driver: CERCLA

Contaminants of Concern: Volatiles (VOC)

Media of Concern: Groundwater

RIP Date: N/A RC Date: 201709

SITE DESCRIPTION

FTD noticed VOC contamination in samples taken from Well 9 of its potable well field. Subsequent investigation in 2011 using vertical profiling soil gas sampling and spring sampling did not find the source of the contamination.

NYSDEC requested further investigation into the source of contamination be conducted.

CLEANUP/EXIT STRATEGY

The cleanup/exit strategy will be determined when the investigation is complete.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
CCFD10168	P-10168	200911	NYSDEC Spill Closure Letter dated 10
			November 2009
CCFD10170	P-10170	200912	NYSDEC Spill Closure Letter dated 14
			December 2009
CCFD10470E	P-10470 East	200911	NYSDEC Spill Closure Letter dated 10
			November 2009
CCFD10470W	P-10470 West	201106	NYSDEC Spill Report Form dated 1
			February 2011
CCFD10580	P-10580	200911	NYSDEC Spill Closure Letter dated 10
			November 2009
CCFD10660	P-10660	200912	NYSDEC Spill Closure Letter dated 14
			December 2009
CCFD10660E	P-10660 East	200911	NYSDEC Spill Closure Letter dated 10
			November 2009
CCFD10680W	P10680 West	200911	NYSDEC Spill Closure Letter dated 10
			November 2009
CCFD4475E	4475 East	200911	NYSDEC Spill Closure Letter dated 10
			November 2009
CCFD4482	4482	200911	NYSDEC Spill Closure Letter dated 10
			November 2009
CCFD4485E	4485 East	200911	NYSDEC Spill Closure Letter dated 10
			November 2009

CR Schedule

Date of CR Inception: 199110

Past Phase Completion Milestones

2006

ISC (CCFD10168 - P-10168, CCFD10170 - P-10170, CCFD10470E - P-10470 East, CCFD10470W - P-10470

West, CCFD10580 - P-10580, CCFD10660 - P-10660, CCFD10660E - P-10660 East, CCFD10680W -

P10680 West, CCFD4475E - 4475 East, CCFD4482 - 4482, CCFD4485E - 4485 East)

2009

PA (CCFD-030G - Gasoline Alley - 1800, 1900 & 3800)

2010

IRA (CCFD10168 - P-10168, CCFD10170 - P-10170, CCFD10470E - P-10470 East, CCFD10580 - P-10580,

CCFD10660 - P-10660, CCFD10660E - P-10660 East, CCFD10680W - P10680 West, CCFD4475E - 4475

East, CCFD4482 - 4482, CCFD4485E - 4485 East)

SI (CCFD-030G - Gasoline Alley - 1800, 1900 & 3800)

INV (CCFD10168 - P-10168, CCFD10170 - P-10170, CCFD10470E - P-10470 East, CCFD10580 - P-10580,

CCFD10660 - P-10660, CCFD10660E - P-10660 East, CCFD10680W - P10680 West, CCFD4475E - 4475

East, CCFD4482 - 4482, CCFD4485E - 4485 East)

PA (CCFD-030H - Gasoline Alley Area 1700, CCFD-114 - Well 9 contamination)

2011

IRA (CCFD10470W - P-10470 West)
INV (CCFD10470W - P-10470 West)

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: 2015

Estimated Completion Date of CR at Installation (including LTM phase): 201806

FORT DRUM CR Schedule

					= phase underway			
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
CCFD-030G	Gasoline Alley - 1800, 1900 & 3800	RI/FS						
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
CCFD-114	Well 9 contamination	RI/FS						

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): 200604

Restoration Advisory Board (RAB): No

Reason Not Established: The community has expressed no sufficient, sustained interest in a RAB.

Community Interest Solicited on: 200601

Efforts Taken to Determine Interest

The US Army has developed a community involvement plan for the FTD IRP (2006) to facilitate local community involvement in accordance with USEPA guidance, including the Superfund Community Involvement Handbook (USEPA 2002) and the RCRA Public Participation Manual (USEPA 1996). Interviews with local elected officials, agency personnel, and local residents were conducted to determine interest in establishing a RAB.

Results

A determination was made that a RAB was not needed at this time due to a lack of community interest.

Follow-up Procedures

The community relations plan recommended continued surveys of community interest in forming a RAB as long as there were sites without remedies-in-place. Two new CR sites that do not have remedies-in-place were recently added to the program. In 2014, when information about the nature and extent of contamination of these sites under investigation is available, FTD will again solicit the public's interest in forming a RAB.

Additional Community Involvement Information

The community relations plan is scheduled for an update in 2015.

Administrative Record is located at

Environmental Division Public Works Building T-4893 Fort Drum, NY 13602-5097 315-772-4211

Information Repository is located at

Environmental Division Public Works Building T-4893 Fort Drum, NY 13602-5097 315-772-4211

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

TAPP Title: N/A

Potential TAPP: N/A