

FY2016

FORT GORDON

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 Installation Management Command (IMCOM), the US Army Environmental Command (USAEC), Fort Gordon (FTGD), the executing agencies, regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules and budgets for all major Army installation cleanup programs.

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

Acronyms

AAFES	Army and Air Force Exchange Service
AEDB-R	Army Environmental Database-Restoration
AIT	Advanced Infantry Training
AOC	Area of Concern
ATV	Artesian Treatment Vessel
BRAC	Base Realignment and Closure
BTEX	Benzene Toluene Ethylbenzene Xylene
CAOs	Corrective Action Objectives
CAP	Corrective Action Plan
CMI(C)	Corrective Measures Implementation (Construction)
CMI(O)	Corrective Measures Implementation (Operation)
CMRD	Cleanup and Munitions Response Division
CMS	Corrective Measures Study
CR	Compliance Restoration
CS	Confirmation Sampling
DCE	Dichloroethene
DD	Decision Document
DES	Design
DoD	Department of Defense
DOE	Department of Energy
DPW	Department of Public Works
ER,A	Environmental Restoration, Army
ESI	Expanded Site Inspection
FRA	Final Remedial Action
FS	Feasibility Study
FTGD	Fort Gordon
FUDS	Formerly Used Defense Site
FY	Fiscal Year
GAC	Granular Activated Carbon
GAEPD	Georgia Department of Natural Resources, Environmental Protection Division
gal/d	gallons per day
GSA	General Services Administration
IAP	Installation Action Plan
ID	Identification
IM	Interim Measures
IMCOM	Installation Management Command
IMP(C)	Implementation - Construction
IMP(O)	Implementation - Operations
IRA	Interim Remedial Action
IRP	Installation Restoration Program
IWQS	In-stream Water Quality Standards
IWTP	Industrial Wastewater Treatment Plant
LTM	Long-Term Management
LUC	Land Use Control
MC	Munitions Constituent

Acronyms

MCL	Maximum Contaminant Level
MICC	Mission Contracting Office
MMRP	Military Munitions Response Program
MNA	Monitored Natural Attenuation
MSWLF	Municipal Solid Waste Landfill
MTBE	Methyl Tertiary Butyl Ether
N/A	Not Applicable
NFA	No Further Action
NPL	National Priorities List
OMA	Operations and Maintenance, Army
OU	Operable Unit
PA	Preliminary Assessment
PAH	Polycyclic Aromatic Hydrocarbons
PBA	Performance-Based Acquisition
PCB	Polychlorinated biphenyl
PCE	Perchloroethylene
POL	Petroleum, Oil and Lubricants
PP	Proposed Plan
ppb	parts per billion
ppm	parts per million
RA	Remedial Action
RA(C)	Remedial Action - (Construction)
RA(O)	Remedial Action - (Operation)
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RIP	Remedy-in-Place
RMIS	Restoration Management Information System
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
RTC	Response to Comments
SAR	SWMC Assessment Report
SDP	Solvent Disposal Pit
SI	Site Inspection
SVOC	Semi-Volatile Organic Compound
SWMU	Solid Waste Management Unit
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TCE	Trichloroethylene
TMP	Troop Motor Pool
TPH	Total Petroleum Hydrocarbons

Acronyms

TRADOC	Training and Doctrine Command
TRC	Technical Review Committee
TSCA	Toxic Substances Control Act
ug/L	micrograms per liter
USACE	US Army Corps of Engineers
USAEC	US Army Environmental Command
USAEHA	US Army Environmental Health Command
USEPA	US Environment Protection Agency
USGS	US Geological Survey
UST	Underground Storage Tank
VATF	Vietnam Armor Training Facility
VI	Vapor Intrusion
VOC	Volatile Organic Compound
WSTP	Wastewater Sewage Treatment Plant
WW I	World War I
WWII	World War II
WWTP	Wastewater Treatment Plant

Acronym Translation Table

CERCLA

Preliminary Assessment(PA)
Site Inspection(SI)
Remedial Investigation/Feasibility Study(RI/FS)
Remedial Design(RD)
Remedial Action (Construction)(RA(C))
Remedial Action (Operation)(RA(O))
Long Term Management(LTM)
Interim Remedial Action(IRA)

RCRA

= RCRA Facility Assessment(RFA)
= Confirmation Sampling(CS)
= RCRA Facility Investigation/Corrective Measures Study(RFI/CMS)
= Design(DES)
= Corrective Measures Implementation (Construction)(CMI(C))
= Corrective Measures Implementation (Operation)(CMI(O))
= Long Term Management(LTM)
= Interim Measure(IM)

Installation Information

Installation Locale

Installation Size (Acreage): 56000

City: Augusta

County: Richmond County

State: Georgia

Other Locale Information

FTGD is situated in east-central Georgia approximately nine miles southwest of Augusta and occupies slightly more than 56,000 contiguous acres in Jefferson, McDuffie, Columbia and Richmond counties. The majority of FTGD is in Richmond County. The facility is roughly an oval shape with the primary axis running southwest to northeast. Land use in the immediate area is predominantly rural/agricultural except to the northeast, towards Augusta, where several commercial shops and retail stores are located.

Installation Mission

The primary mission of FTGD is to train military personnel in the installation, operation, and maintenance of communications and electronic equipment. FTGD is an active US Army facility under the jurisdiction of the IMCOM and is the location of the US Army Cyber Center of Excellence.

Lead Organization

IMCOM

Lead Executing Agencies for Installation

Cleanup and Munitions Response Division (CMRD) Mission Contracting Office (MICC) Fort Sam Houston

Regulator Participation

Federal

US Environmental Protection Agency (USEPA), Region IV

State

Georgia Department of Natural Resources, Environmental Protection Division (GAEPD)

National Priorities List (NPL) Status

FORT GORDON is not on the NPL

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

Installation is in the process of determining interest in establishing a RAB.

Installation Program Summaries

IRP

Primary Contaminants of Concern: Semi-volatiles (SVOC), Volatiles (VOC)

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

MMRP

Primary Contaminants of Concern: Munitions constituents (MC)

Affected Media of Concern: Soil

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
Complete	201208	201308	2013
Complete	200005	200005	2000

Last Completed 5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
FTGD-006A	FTGD-006A
FTGD-006A	FTGD-006A
FTGD-019	FTGD-019
FTGD-019	FTGD-019
FTGD-020	FTGD-020
FTGD-020	FTGD-020
FTGD-021	FTGD-021
FTGD-021	FTGD-021
FTGD-024	FTGD-024
FTGD-024	FTGD-024
FTGD-024A	FTGD-024A
FTGD-024A	FTGD-024A
FTGD-026	FTGD-026
FTGD-026	FTGD-026
FTGD-027A	FTGD-027A
FTGD-027A	FTGD-027A
FTGD-028	FTGD-028
FTGD-028	FTGD-028
FTGD-038	FTGD-038
FTGD-038	FTGD-038
Fort Gordon GFPR	FTGD-001
Fort Gordon GFPR	FTGD-001
SWMU 006 DRMO Drum Storage Area	FTGD-006
SWMU 006 DRMO Drum Storage Area	FTGD-006
SWMU 010 Former Battery Shop	FTGD-010
SWMU 010 Former Battery Shop	FTGD-010
SWMU 011 Former Hospital Incinerators	FTGD-011
SWMU 011 Former Hospital Incinerators	FTGD-011
SWMU 012H Former UST Site	FTGD-012H
SWMU 012H Former UST Site	FTGD-012H
SWMU 014	FTGD-014
SWMU 014	FTGD-014
SWMU 020A 950 & 960 Block Storm Sewers	FTGD-020A
SWMU 020A 950 & 960 Block Storm Sewers	FTGD-020A
SWMU 025 25th Street Landfill	FTGD-025
SWMU 025 25th Street Landfill	FTGD-025
SWMU 031 Bldg 984 Photo Waste Sump DRMO	FTGD-031
SWMU 031 Bldg 984 Photo Waste Sump DRMO	FTGD-031
SWMU 032 WWTP Sludge Stockpile	FTGD-032
SWMU 032 WWTP Sludge Stockpile	FTGD-032
SWMU 032A WWTP Sludge Application	FTGD-032A
SWMU 032A WWTP Sludge Application	FTGD-032A

5-Year / Periodic Review Summary

Associated ROD/DD Name	Sites
SWMU 032B WWTP Sludge Application	FTGD-032B
SWMU 032B WWTP Sludge Application	FTGD-032B
SWMU 035 ICM	FTGD-035
SWMU 035 ICM	FTGD-035
SWMU 036 REMOVAL ACTION AT IMPACT AREA	FTGD-036
SWMU 036 REMOVAL ACTION AT IMPACT AREA	FTGD-036
SWMU 039 Installation Gas Chamber	FTGD-039
SWMU 039 Installation Gas Chamber	FTGD-039
SWMU 040 Former Motorpool POL Sump	FTGD-040
SWMU 040 Former Motorpool POL Sump	FTGD-040
SWMU 041 Former Motorpool POL Sump	FTGD-041
SWMU 041 Former Motorpool POL Sump	FTGD-041
SWMU 042 Former Motorpool POL Sump	FTGD-042
SWMU 042 Former Motorpool POL Sump	FTGD-042
SWMU 043 Former Motorpool POL Sump	FTGD-043
SWMU 043 Former Motorpool POL Sump	FTGD-043
SWMU-27	FTGD-027
SWMU-27	FTGD-027

Results N/A

Actions N/A

Plans N/A

Recommendations and Implementation Plans:

The remedy at solid waste management unit (SWMU)-009 is currently effective at achieving attainment of media-specific cleanup standards and in the control of source releases to reduce or eliminate to the extent practicable, further releases that may pose a threat to human health and the environment. Elements of the remedy contributing to its effectiveness are the: 1)source reduction achieved by the excavation of TCE contaminated soil; 2)operation of the ATV system where contaminated groundwater is extracted under artesian conditions and treated with GAC to achieve TCE concentration reduction to levels less than 5 µg/L; and 3)continued implementation of land use controls (LUC). However, in order for the remedy to be protective in the long-term, the following actions are recommended to be taken to ensure remedy effectiveness: 1)evaluate the system's capture zone to ensure that the system will capture the deeper portion of the TCE plume when it reaches the ATV system; 2)effect changes to the system if portions of the plume are seen to be bypassing the system; 3)ensure GAC change outs occur at appropriate intervals since the system is treating TCE concentrations significantly higher than anticipated.

An effectiveness determination of the remedy at SWMU-027 cannot be made at this time until further information is obtained. Surface water vinyl chloride concentrations exceeded Georgia IWQS at a downgradient wetland. Additional information is currently being acquired through implementation of the permit contingency 12-month sampling program. Upon completion of this program, the data will be evaluated to determine if compliance with Georgia IWQS has been achieved. If achieved, the MNA remedy will have been demonstrated as having been effective. If compliance with Georgia IWQS was not achieved, then the MNA remedy is not effective at preventing exceedances of Georgia IWQS. In either scenario, exposure pathways are not complete due to the effective implementation of LUCs

Land Use Control (LUC) Summary

LUC Title: SWMU-27

Site(s): FTGD-027

ROD/DD Title: SWMU-27

Location of LUC

3rd Avenue Lanfill

Land Use Restriction: Landfill restriction - Prohibit activities that would impact the LF cap (or cover system) and drainage system, Landfill restriction - Prohibit excavation on LF cap or cover system, Landfill restriction - Prohibit installation of utility system lines through the site, Landfill restriction - Restrict access to the site, Landfill restriction - Restrict construction of buildings that may interfere with LF cap or cover system, Landfill restriction - Restrict plantings that interfere LF cap or cover system (roots that penetrate the cap or cover system), Media specific restriction - Prohibit groundwater extraction that interferes with Remedial Action system, Media specific restriction - Prohibit swimming and/or wading, Media specific restriction - Prohibit, or otherwise manage excavation, Media specific restriction - Prohibit, or otherwise manage excavation below a specified depth, Media specific restriction - Restrict activities in surface water that result in contact with contaminated bottom sediments such as boating, diving, and swimming, Media specific restriction - prohibit use of groundwater for consumption or domestic purposes, Media specific restriction - restrict drinking water well installation, Media specific restriction - restrict withdrawal or use of groundwater for agricultural/irrigation purposes, Media specific restriction - restrict withdrawal or use of groundwater w/out treatment, Restrict land use - Mitigation area(s) protection, Restrict land use - No daycare/hospital/school use, Restrict land use - No residential use

Types of Engineering Controls: Signs

Types of Institutional Controls: Restrictions on land use

Date in Place: 201010

Modification Date: N/A

Date Terminated: N/A

Inspecting Organization: State

Record of LUC: Master Plan or Equivalent

Documentation Date: 200909

LUC Enforcement: 5 Year Reviews

Contaminants: ORGANICS

Additional Information

N/A

Cleanup Program Summary

Installation Historic Activity

On Dec. 2, 1941 FTGD was activated as Camp Gordon. It was named for Confederate Lieutenant General John Brown Gordon and was used to train infantry and armor units in WWII. During that time it also was used as a disciplinary barracks and as a prisoner-of-war camp. Following the war, Camp Gordon served primarily as a US Army personnel center responsible for the discharge of over 85,000 officers and enlisted Soldiers.

In 1948 the Signal Corps Training Center was established at the post. In 1950, the Army's only criminal investigations laboratory in the continental US was constructed here. In 1952, a rehabilitation center and a US disciplinary barracks were formed to confine and retrain military offenders. In 1953 the Basic Replacement Training Center and Advanced Leader's School were formed. These facilities ceased operations in 1955.

On March 21, 1956 Camp Gordon was redesignated FTGD and became a permanent Army installation. In 1957 the US Army Training Center (Basic) was activated at FTGD to provide basic training for Soldiers.

In 1961 combat operations at FTGD resumed when the US Army Training Center Infantry was activated. In 1962 basic training and advanced individual training (AIT) brigades were joined by additional Military Police and AIT brigades. In 1970 the basic and AIT brigades were deactivated.

In June 1962 all activities of the Signal Corps Training Center were reorganized under the US Army Southeast Signal Training School. On July 1, 1975 the 1st Signal Training Brigade was activated and also in that year, basic combat training activities returned to FTGD. In 1978 the US Army Signal Corps and FTGD were reorganized, resulting in the consolidation of all post directorates and staff activities and the Signal School's staff directorates and activities under a single US Army Signal Center directorate staff, including the addition of Directorate of Reserve components.

Installation Program Cleanup Progress

IRP

Prior Year Progress: Corrective action plans (CAP) SWMU 27 and 09 are operating within design. Phase one of the RFI fieldwork is complete for petroleum, lubricant, and lube (POL) sites. Phase one fieldwork at five Gillem Enclave sites is complete. The vapor intrusion (VI) work plan for the Gillem Enclave site FTG-04 and FTG-13 was approved by the USEPA and GAEPD. The initial round of soil gas sampling in support of the VI work plan was completed in March of 2016.

Future Plan of Action: Site closure for the POL sites is expected. Completion of the skeet range cleanup is planned, as is completion of the RI/FS for Gillem Enclave sites FTG-03, 04, 05, 06, and 13.

MMRP

Prior Year Progress: A PA/SI is in draft and scheduled for completion in fiscal year (FY) 17.

Future Plan of Action: Complete PA/SI, close site.

CR

Prior Year Progress: The CAP-B for site CCSWMU015 was approved by GA EPD. Expect a summer 2016 mobilization to complete the soil excavation.

Phase one of the RFI for the former water standpipe is complete. Confirmation sampling (CS) studies are complete at the interim remedial action (IRA) site and the VATF site; the GAEPD has recommended that RFIs be completed for both sites.

A new performance based acquisition (PBA) contract was awarded at the Gillem Enclave to address site CCGE-01, which was added in 2015.

Future Plan of Action: A removal action is planned for site CCSWMU015 to address free product.

A removal action for CCFTGD-56 is planned and RFI studies for CCFTGD-57 and 58 will be completed.

Expect completion of the PA/SI and potentially an RI at CCGE-01 at the Gillem Enclave

FORT GORDON
Army Defense Environmental Restoration Program
Installation Restoration Program

IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 54/40

Installation Site Types with Future and/or Underway Phases

6	Chemical Disposal (FTGD-047, FTGD-048, FTGD-049, FTGD-050, FTGD-051, FTGD-054)
2	Disposal Pit/Dry Well (FTG-04, FTGD-009)
1	Firing Range (FTGD-046)
1	Landfill (FTGD-027)
1	Sewage Treatment Plant (FTG-13)
1	Underground Storage Tank (FTG-05)
1	Washrack (FTG-06)
1	Waste Treatment Plant (FTG-03)

Most Widespread Contaminants of Concern

Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern

Groundwater, Sediment, Soil, Surface Water

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

Site ID	Site Name	Action	Remedy	FY
FTGD-012H	UST(4) AT BLDG 18806, RECYCLING CENTER	IRA	REMOVAL	1992
FTG-04	900 AREA - SOLVENT DISPOSAL PIT	IRA	BIOREMEDIATION	1996
FTG-05	900 AREA - HEATING PLANT	IRA	WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS	1996
FTG-04	900 AREA - SOLVENT DISPOSAL PIT	IRA	REMOVAL	1997
FTGD-036	FORMER SMALL ARMS BURNING GROUND	IRA	WASTE REMOVAL - SOILS	1997
FTGD-014	BUILDING 15904, PAST PCB STORAGE	IRA	REMOVAL	2003
FTGD-020A	950'S & 960'S BLOCK STORMWATER SEWERS	IRA	REMOVAL	2003
FTGD-031	BLDG 984 PHOTO WASTE PIT/SUMP (DRMO)	IRA	REMOVAL	2003
FTGD-035	BLDG 2030 PESTICIDE STORAGE AND MIXING	IRA	REMOVAL	2004
FTGD-024	17TH STREET LANDFILL	FRA	NATURAL ATTENUATION	2006
FTGD-036	FORMER SMALL ARMS BURNING GROUND	FRA	REMOVAL	2006
FTGD-001	Ft Gordon GFPR Compilation Site	FRA	OTHER	2007
FTGD-009	BUILDING 955 ELECTROPLATING SUMP	IRA	GROUND WATER TREATMENT	2007
FTGD-026	19TH STREET LANDFILL	IRA	NATURAL ATTENUATION	2007
FTGD-009	BUILDING 955 ELECTROPLATING SUMP	FRA	GROUND WATER TREATMENT	2008

IRP Summary

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

Site ID	Site Name	Action	Remedy	FY
FTGD-027	3RD AVENUE LANDFILL	FRA	NATURAL ATTENUATION	2010
FTGD-009	BUILDING 955 ELECTROPLATING SUMP	FRA	GROUND WATER TREATMENT	2011

Duration of IRP

Date of IRP Inception: 197910

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201909/204109

Date of IRP completion including Long Term Management (LTM): 204007

IRP Contamination Assessment

Contamination Assessment Overview

A variety of wastes are generated at FTGD, including waste oil, solvents, kerosene, antifreeze, silver nitrate, lithium, mercury, nickel-cadmium batteries, waste acid, lead-based paint, waste paint and paint sludge, polychlorinated biphenyls (PCB) in transformer oil, trichloroethane, trichloroethylene (TCE), plastics, chromic acid, zinc and manganese phosphate, pathological wastes, asbestos, pesticides and herbicides, sanitary wastes and construction debris, sanitary sludge, radiological wastes, lead, and ammunition propellant.

Prior to 1970, contaminated pathological and infectious wastes were disposed of in the landfills on the installation. Human limbs were incinerated in the laundry boiler. After construction of the hospital in 1970, all infectious wastes were disposed of by incineration in the hospital incinerator. Now all pathological wastes are disposed of by a contract through the Dwight D. Eisenhower Army Medical Center.

Prior to 1952, four incinerators were used to burn refuse. Unknown quantities of ash from these operations were spread on the ground. There is no data to indicate the migration of contaminants from these ash piles.

All industrial wastewaters generated at FTGD are currently discharged to the sanitary sewer systems and are treated at the installation's wastewater treatment plant (WWTP). The predominant source of industrial wastewater was from the laundry, which generated approximately 79,250 gallons per day (gal/d), five days per week. The laundry was permanently closed on Oct. 24, 2000. The current major sources of industrial wastewater are vehicle washracks. The average daily industrial wastewater contribution to the WWTP influent is estimated at less than 105,670 gal/d, which is less than 10 percent of the average daily influent.

Until August 1991 approximately 20 gallons per week of waste photographic developing solution containing ammonium dichromate were discharged from the printing plant to a storm drain that discharged to an intermittent stream. Other industrial wastewaters were also discharged to the storm sewer system and ultimately to surface water. These waste streams included wastewater from vehicle washracks and steam condensate from the laundry steam generating plant.

There are six closed sanitary landfills located on FTGD. The most recent, Gibson Road Landfill, closed in December 1996, but a portion of the landfill designated for construction debris is still active. The contents of the older closed landfills are unknown, but are believed to contain sanitary refuse and construction debris. The typical operation activities at the landfills included the trench and area methods of landfilling. In the trench method, soil is excavated out of a trench, the wastes are compacted into the trench, and the excavated soil is used to cover the waste.

In the area method, the waste is spread and compacted on the existing ground surface and cover material is spread and compacted over it. The common depth of the trenches was usually 15 feet below ground surface.

In July 1982 the installation assessment was completed and in June 1987 an evaluation of SWMUs was conducted by the US Army Environmental Hygiene Agency. This evaluation identified 36 SWMUs. The US Army Environmental Hygiene Agency recommended that a Resource Conservation and Recovery Act (RCRA) facility assessment (RFA) be conducted for the following 18 of the 36 SWMUs:

- FTGD-001B,
- FTGD-001G,
- FTGD-001H,
- FTGD-006,
- FTGD-009,
- FTGD-010,
- FTGD-011,
- FTGD-019,
- FTGD-020,
- FTGD-021,
- FTGD-022,
- FTGD-025,
- FTGD-026,
- FTGD-027,
- FTGD-028,
- FTGD-031,
- FTGD-032, and

IRP Contamination Assessment

Contamination Assessment Overview

- FTGD-036

For reasons unknown, sites FTGD-001B and FTGD-001H, previously identified during the evaluation of SWMUs, were not investigated during the RFA. Site FTGD-020A was added to the RFA for investigation due to the probability of contamination.

FTGD-012H (previously FTGD-001G) was investigated under a separate individual project. The resulting 17 sites investigated during the RFA are included in the list of SWMUs appearing in the expired RCRA Part B Permit, Appendix A.

As a condition of RCRA Part B Permit No. HW-081(S)-2, Section III.C.1, the installation is required to conduct CS or (Section III.D.1) an RFI of the SWMUs listed in Appendix A of the permit and any other SWMUs identified subsequent to the RFA. At this time, 15 additional SWMUs have been added to the Installation Restoration Program (IRP) since the original installation RFA requiring RFI activities. In October 1996, a Phase I RFI was completed at the following sites:

- FTGD-006,
- FTGD-009,
- FTGD-010,
- FTGD-011,
- FTGD-019,
- FTGD-020,
- FTGD-020A,
- FTGD-021,
- FTGD-022,
- FTGD-024,
- FTGD-025,
- FTGD-026,
- FTGD-027,
- FTGD-028,
- FTGD-031,
- FTGD-032,
- FTGD-032A,
- FTGD-032B,
- FTGD-036,
- FTGD-037,
- FTGD-038, and
- FTGD-039

Sites FTGD-019, -022, and -039 were deleted from the Phase I RFI as they are being investigated under separate individual projects.

In December 1995, FTGD and the GAEPD met to discuss the division of SWMUs into operable units (OU). The FTGD and the GAEPD agreed to split the 22 SWMUs into OUs based on the function performed at these SWMUs. Sites FTGD-022 and FTGD-037 were determined by the GAEPD to require no further action (NFA).

The following sites were identified for investigation during the Phase II RFI:

- OU I: FTGD-006, FTGD-006A, FTGD-009, FTGD-010, FTGD-020, FTGD-020A, and FTGD-031
- OU II: FTGD-024, FTGD-025, FTGD-026, FTGD-027, and FTGD-028
- OU III: FTGD-011, FTGD-024A, FTGD-027A, FTGD-032, FTGD-032A, and FTGD-032B
- OU IV: FTGD-021, FTGD-036, and FTGD-038

Sites FTGD-006A, FTGD-024A, and FTGD-027A were added due to contamination upgradient at their respective sites identified during the Phase I RFI. FTGD-014, FTGD-019, FTGD-035, and FTGD-039 have been identified for investigation separately under individual projects.

An RFA was conducted on four former motor pool sites that were listed and approved by the USAEC during the FY00 fall AEDB-R data call to be incorporated into the IRP. These sites are categorized as operable unit OU V.

IRP Contamination Assessment

Contamination Assessment Overview

On Sept. 28, 2000 FTGD received a new RCRA Part B Permit from the GAEPD. These additional 12 sites have been incorporated into FTGDs RCRA Part B Permit:

- FTGD-006A,
- FTGD-014,
- FTGD-024,
- FTGD-024A,
- FTGD-027A,
- FTGD035,
- FTGD-038,
- FTGD-039,
- FTGD-040,
- FTGD-041,
- FTGD-042, and
- FTGD-043

RFIs at the following eight of the incorporated sites were initiated during the Phase II RFI. They received NFAs, and were removed from the permit during the permit renewal.

- FTGD006A,
- FTGD-014,
- FTGD-024,
- FTGD-024A,
- FTGD-027A,
- FTGD-035,
- FTGD-038, and
- FTGD-039

Site FTGD-012H has been removed from the RCRA Part B Permit by the GAEPD Hazardous Waste Management Branch because this site is handled by the underground storage tank (UST) management branch of the GAEPD; however, it is designated response complete (RC).

During FY01, the Training and Doctrine Command (TRADOC) selected the US Army Signal Center and FTGD to undergo a pilot process for the guaranteed fixed price remediation (GFPR) contract mechanism. This pilot was to determine the benefits of privatizing and ensuring the IRP cleanup efforts at a Department of Defense (DoD) active installation. To fully support this effort, TRADOC instructed FTGD to submit all data, maps, installation master plans, utilities maps, and all other IRP documents to AIM Tech Ltd. (AIM Tech), a Department of Energy (DOE) contractor. AIM Tech conducted site visits and interviews at FTGD to prepare their cost proposal. Headquarters TRADOC also conducted a cost proposal for completion of FTGDs IRP.

Headquarters TRADOC used a team of government personnel to develop the cost proposal. In September 2000, this proposal was presented as an independent government cost estimate. On April 16, 2001 a memorandum of understanding was signed between TRADOC and the DOE. On Sept. 25, 2001 the DOE backed out of the GFPR contract. TRADOC awarded the contract to ARCADIS, Incorporated, through the General Services Administration (GSA). All current and future costs with the exception of SWMUs FTGD-040 and FTGD-043 and phases proposed in this IAP have been derived from the reported GSA contract award amount between Headquarters TRADOC and ARCADIS.

The major IRP concerns are delays and the identification of new sites. The regulatory team at the GAEPD has changed. An entirely new team is now in the DoD remediation unit at the GAEPD and this has caused delays with FTGD-009 and FTGD-027 RIP. Additional sampling for FTGD-009 was required in the RFI phase by the new regulatory team. In regard to FTGD-027, there has been a site visit and numerous discussions between FTGD and the GAEPD. Everything is now on track and moving forward.

Seven new sites have been listed as SWMUs by the GAEPD. The GAEPD required CS at each site in accordance with Condition III.C.1 of FTGD's Hazardous Waste Permit No. HW-081 (S)-2. FTGD has completed the CS phase for the seven SWMUs. All seven AOCs have been identified as SWMUs by the GAEPD and are Environmental Restoration, Army (ER,A) eligible.

IRP Contamination Assessment

Contamination Assessment Overview

Two of the sites are motor pool in-ground sump areas identified by FTGD to the GAEPD in April 2000. Four are also motor pool in-ground sump areas and were identified by FTGD during the building demolition program during 2005. One AOC is the former recreational skeet shooting range identified by the GAEPD in March 2005 during a RCRA inspection.

Beginning in FY10, a CAP was approved for FTGD-027; monitored natural attenuation (MNA) sampling is underway. Another CAP was approved for FTGD-009 in FY10 which utilizes artesian well conditions in 20 extraction wells to intercept and treat TCE contaminated groundwater. Contaminated groundwater is fed into artesian treatment vessels (ATV), which contain granulated activated carbon. The system is operating beyond initial pilot scale test efficiency in that vessels are treating more TCE than originally designed for, which has forced the installation to adjust carbon change out frequencies.

Additional sites have been discovered and were added to the Part B permit in FY14/15. CCFTGD-56, the former water standpipe was added once the standpipe was removed, and lead contamination was discovered at levels above both residential and industrial screening levels. CCFTGD-57, the installation railhead area was added upon discovery of perchloroethylene (PCE) in two groundwater monitoring wells installed by the US Geological Survey (USGS) as part of a soil gas investigation. CCFTGD-58, the former Vietnam era tracked armor maintenance area, was added to the permit when benzene was discovered in two groundwater monitoring wells with levels above the maximum contaminant level (MCL) and Georgia in-stream water quality standards (IWQS). Soil gas survey results possibly indicate a larger plume.

Finally, CCMMRP-01, the former WWI Camp Hancock Artillery Impact Area, was discovered from a map at the installation. Once georeferenced, the map showed that the current FTGD cantonment area was used as an impact area in 1918 for the former WWI Army post. In FY13, FTGD took command and control over the Gillem Enclave. Formerly Fort Gillem, the Enclave consists of approximately 260 acres and seven cleanup sites with Comprehensive Environment Response, Compensation and Liability Act (CERCLA) being the regulatory driver. FTG-04 and FTG-13 comprise the bulk of groundwater issues at the Enclave, with TCE as the primary risk drivers. Both these sites are in the RI/FS phase, and based on preliminary data, the plume appears to be off-site in a residential neighborhood. The VI pathway will be an issue that will need additional investigation and potentially mitigation.

Cleanup Exit Strategy

Continued operation of the CAPs at both FTGD-009 and FTGD-027 is expected until MCLs are met for ground and surface water. Completion of six RFIs for the POL sites is expected in FY17; two of the six sites may require minor RAs to achieve closure.

Completion of the RFI at FTGD-046, the former skeet range is expected in FY16. Remedial actions at the site will be required to achieve site closure. Remedial actions will be required at CCFTGD-56, the former water standpipe to address known lead contamination. Gillem Enclave sites FTG-03, -05, -06, -04, and -13 are all in the RI/FS phase and expect completion by FY18. Sites FTG-04 and -13 are responsible for the groundwater contamination and will require further delineation to complete the RI. A VI study is also planned for these sites as the plumes have migrated off-post into residential neighborhoods. Records of decision (ROD) are planned for soil only at sites FTG-03, -05 and -06; groundwater contamination at these sites will be addressed under FTG-04.

IRP Previous Studies

Year	Title	Author	Date
1982	Installation Assessment of Fort Gordon, Georgia, Report No. 315	ESE	JUL-1982
1984	Gibson Road Sanitary Landfill, Fort Gordon, Georgia, An Engineering Report	Prepared by Baldwin and Cranston Associates, Inc.	SEP-1984
1986	Geohydrologic Study No. 38-26-0904-86, Fort Gordon, Georgia	US Army Environmental Hygiene Agency	JAN-1986
1987	Interim Final Report, Hazardous Waste Consultation No. 37-26-1379-89, Evaluation of Solid Waste Management Units (SWMUs)	US Army Environmental Hygiene Agency	JUN-1987
1989	Geohydrologic Study No. 38-26-9910-90, RCRA Facility Assessment Sampling Visit, Fort Gordon, Georgia	US Army Environmental Hygiene Agency	JUN-1989
	Environmental Assessment (POL Facility), Fort Gordon, Georgia	Prepared by Dames and Moore.	JUL-1989
	Land Treatment Feasibility Study No. 32-24-0913-90, Fort Gordon, Georgia	US Army Environmental Hygiene Agency.	SEP-1989
1991	Environmental Program Review No. 43-21-7240-91, US Army Signal Center and Fort Gordon, Georgia	US Army Environmental Hygiene Agency.	JAN-1991
	US Army Toxic and Hazardous Material Agency Property Report, Fort Gordon, Georgia	Weston	JAN-1991
	Water Quality Consultation No. 31-62-0142-91, Fort Gordon, Georgia	US Army Environmental Hygiene Agency	JAN-1991
1992	USACE Site Inspection Report No. 91-033. Preliminary Site Inspection for Fort Gordon Military Reservation	Advanced Sciences, Inc.	JAN-1992
	Soil and Groundwater Testing at 15 UST Locations at Fort Gordon, Georgia,	Ebasco Environmental.	OCT-1992
1996	Phase I RFI at FTGD-014 at Fort Gordon, Georgia	Metcalf and Eddy, Inc.	FEB-1996
	Phase I RFI at FTGD-035 at Fort Gordon, Georgia	Metcalf and Eddy, Inc.	SEP-1996
	Phase I RFI at 22 SWMUs at Fort Gordon, Georgia	Ecology and Environment, Inc	OCT-1996
1997	Interim Remedial Action at SWMU 36 at Fort Gordon, Georgia	Horne Engineering, Inc.	AUG-1997
1998	RFA at SWMU 039 at Fort Gordon, Georgia	Savannah District Corps of Engineers.	MAR-1998
	Phase II RFI at Operable Unit I at Fort Gordon, Georgia	Ecology and Environment, Inc.	DEC-1998
1999	Phase II RFI at Operable Unit II at Fort Gordon, Georgia	Ecology and Environment, Inc.	FEB-1999
	Interim Data Summary Report, Supplemental RFI for Operable Unit II at Fort Gordon, Georgia	Ecology & Environment.	FEB-1999

IRP Previous Studies

1999	Title	Author	Date
	Interim Data Summary Report, Supplemental RFI for Operable Unit I at Fort Gordon, Georgia	Ecology & Environment.	MAR-1999
	RFA at SWMU 039 at Fort Gordon, Georgia	Savannah District Corps of Engineers.	MAR-1999
	Phase II RFI at FTGD-014 at Fort Gordon, Georgia	Metcalf & Eddy, Inc.	APR-1999
	Phase II RFI at FTGD-035 at Fort Gordon, Georgia	Metcalf & Eddy, Inc.	APR-1999
	RFA at SWMUs 040, 041, 042, and 043 (Operable Unit V) at Fort Gordon, Georgia	Savannah District Corps of Engineers	MAY-1999
	Phase II RFI at Operable Unit III at Fort Gordon, Georgia,	Ecology and Environment.	MAY-1999
	Interim Data Summary Report, Supplemental RFI for Operable Unit III at Fort Gordon, Georgia	Ecology & Environment.	MAY-1999
2002	Risk Assessment Strategy Document	Fort Gordon	APR-2002
	RFI Report SWMU 006	Fort Gordon	DEC-2002
	RFI Report SWMU 010	Fort Gordon	DEC-2002
2003	RFI Report SWMU 020	Fort Gordon	JAN-2003
	Master laboratory Report 1994	Fort Gordon	JAN-2003
	Phase I RFI Report Operable Unit V	Fort Gordon	JAN-2003
	Background Soil Data Study	Fort Gordon	JAN-2003
	TSCA Comp. Report - SWMU 014.	Fort Gordon	JAN-2003
	IM Comp. Report - SWMU 014.	Fort Gordon	JAN-2003
	IM Comp. Report - SWMU 031.	Fort Gordon	JAN-2003
	SWMU 006A Mercury Letter.	Fort Gordon	SEP-2003
2004	SWMU 019 RFI Report	Fort Gordon	APR-2004
	SWMU 009 RFI Work plan Revision 1	Fort Gordon	SEP-2004
	SWMU 009 RFI Work plan Addendum	Fort Gordon	SEP-2004
	SWMU 019 RFI Work plan Revision 1	Fort Gordon	SEP-2004
	SWMU 019 RFI Work plan Addendum	Fort Gordon	SEP-2004
	SWMU 006A Supplemental RFI Work plan	Fort Gordon	SEP-2004
	SWMU 020A RFI Work plan	Fort Gordon	SEP-2004
	SWMU 020A RFI Work plan Revision 1	Fort Gordon	SEP-2004
	SWMU 021 RFI Work plan Revision 1	Fort Gordon	SEP-2004
	SWMU 024A RFI Work plan Revision 1	Fort Gordon	SEP-2004
	SWMU 024A RFI Work plan Revision 2	Fort Gordon	SEP-2004

IRP Previous Studies

2004

Title	Author	Date
SWMU 027 RFI Work plan	Fort Gordon	SEP-2004
SWMU 027 RFI Work plan Revision 1	Fort Gordon	SEP-2004
SWMU 027A RFI Work plan Revision 1	Fort Gordon	SEP-2004
SWMU 032 RFI Work plan Revision 1	Fort Gordon	SEP-2004
SWMU 032B RFI Work plan Revision 1	Fort Gordon	SEP-2004
SWMU 038 RFI Work plan Revision 1	Fort Gordon	SEP-2004
SWMU 039 RFI Work plan Revision 1	Fort Gordon	SEP-2004
SWMU 043 Supplemental RFI Work plan	Fort Gordon	SEP-2004
SWMU 009 Interim Measures Work plan	Fort Gordon	SEP-2004
SWMU 006 RFI Report Revision 2	Fort Gordon	SEP-2004
SWMU 010 RFI Report Revision 1	Fort Gordon	SEP-2004
SWMU 010 RFI Report Revision 2	Fort Gordon	SEP-2004
SWMU 011 RFI Report	Fort Gordon	SEP-2004
SWMU 011 RFI Report Revision 1	Fort Gordon	SEP-2004
SWMU 020 RFI Report Revision 1	Fort Gordon	SEP-2004
SWMU 020 RFI Report Revision 2	Fort Gordon	SEP-2004
SWMU 020A RFI Report	Fort Gordon	SEP-2004
SWMU 025 RFI Report	Fort Gordon	SEP-2004
SWMU 031 RFI Report	Fort Gordon	SEP-2004
SWMU 032 RFI Report	Fort Gordon	SEP-2004
SWMU 032A RFI Report	Fort Gordon	SEP-2004
SWMU 032A RFI Report Revision 1	Fort Gordon	SEP-2004
SWMU 032B RFI Report	Fort Gordon	SEP-2004
SWMU 040 RFI Report	Fort Gordon	SEP-2004
SWMU 041 RFI Report	Fort Gordon	SEP-2004
SWMU 042 RFI Report	Fort Gordon	SEP-2004
Background Soil Data Assessment Report Addendum 3	Fort Gordon	SEP-2004
Surface Water & Sediment Background Study Revision 1	Fort Gordon	SEP-2004
Master Laboratory Report Revision 2	Fort Gordon	SEP-2004
SWMU 035 Interim Measures Completion Report	Fort Gordon	SEP-2004
SWMU 035 Interim Measures Completion Report Revision 1	Fort Gordon	SEP-2004

2005

RFI - SWMU 024A	Fort Gordon	JUL-2005
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IRP Previous Studies

2005

Title	Author	Date
SWMU 009 IM Work plan Revision 1	Fort Gordon	SEP-2005
SWMU 036 IM Work plan	Fort Gordon	SEP-2005
RFI - SWMU 024	Fort Gordon	SEP-2005
Master Laboratory Report Revision 3	Fort Gordon	SEP-2005
SWMU 009 UIC Permit Application	Fort Gordon	SEP-2005
SWMU 009 UIC Permit Application	Fort Gordon	SEP-2005
SWMU 021 RFI Report	Fort Gordon	SEP-2005
SWMU 021 RFI Report Revision 1	Fort Gordon	SEP-2005
SWMU 024 RFI Report	Fort Gordon	SEP-2005
SWMU 024A RFI Report	Fort Gordon	SEP-2005
SWMU 028 RFI Report	Fort Gordon	SEP-2005
SWMU 028 RFI Report Revision 1	Fort Gordon	SEP-2005
SWMU 035 RFI Report	Fort Gordon	SEP-2005
SWMU 035 RFI Report Revision 1	Fort Gordon	SEP-2005
SWMU 036 RFI Report	Fort Gordon	SEP-2005
SWMU 036 RFI Report Revision 1	Fort Gordon	SEP-2005
SWMU 038 RFI Report	Fort Gordon	SEP-2005

2006

SWMU 006A RFI Report Revision 1	Fort Gordon	APR-2006
SWMU 006A RFI Report	Fort Gordon	APR-2006
SWMU 027A RFI Report	Fort Gordon	APR-2006
SWMU 019 RFI Report	Fort Gordon	APR-2006
RFI - SWMU 026	Fort Gordon	JUN-2006
IM Report - SWMU 036	Fort Gordon	JUL-2006
IM Report - SWMU 009	Fort Gordon	OCT-2006

2007

Confirmatory Sampling Report, SWMU-047, 048, 049, 050, 051, and 054	USACE	JAN-2007
RFI Report, SWMU-027	ARCADIS	APR-2007
IM Report SWMU-009 RTC Revision I	ARCADIS	MAY-2007
RFI Report, SWMU-009	ARCADIS	AUG-2007
Confirmatory Sampling Report, SWMU-046	USACE	AUG-2007

2008

RFI Report, SWMU-027 RTC Revision I	ARCADIS	JAN-2008
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IRP Previous Studies

Year	Title	Author	Date
2008	RFI Report, SWMU-009 RTC Revision I	ARCADIS	APR-2008
	RFI Report, SWMU-027 Revision II	ARCADIS	JUL-2008
	RFI Report, SWMU-027 30-Year Residential Exposure Scenario Tech Memo	ARCADIS	JUL-2008
	RFI Report, SWMU-009 RTC Revision II	ARCADIS	NOV-2008
	RFI Report, SWMU-009 30-Year Residential Exposure Scenario Tech Memo	ARCADIS	NOV-2008
	RFI Report, SWMU 009 Installation of Intermediate Monitoring Well MW-009-61	ARCADIS	NOV-2008
2010	Technical Memorandum, SWMU 027 Evaluation of Trichloroethene Concentration in Monitoring Well 027-7 as an Indicator of Potential for the 3rd Avenue Landfill to be a Continuing Source	ARCADIS	JAN-2010
	RFI Report, SWMU 009 Installation of Intermediate Zone Monitor Wells MW-009-62 through MW-009-65	ARCADIS	JAN-2010
	RFI Report, SWMU 009 Revision 4	ARCADIS	JAN-2010
	SWMU 027 CAP Revision 1	ARCADIS	MAR-2010
	Pilot Test Work plan	ARCADIS	OCT-2010
2011	SWMU-46 RCRA Facility Investigation Report Revision I, Response to GAEPD Comments	SpecPro	MAR-2011
	RFI Report, SWMU 009 Revision 6	ARCADIS	JUN-2011
	SWMU-09 Corrective Action Plan Revision I	ARCADIS	OCT-2011
	SWMU-27 Corrective Action Plan Progress Report	ARCADIS	NOV-2011
	SWMU-09 Corrective Action Plan Revision II	ARCADIS	DEC-2011
	UST Site 08 Corrective Action Plan Fourth Addendum	SpecPro	DEC-2011
	SWMU Assessment Report for the Water Standpipe at 11th Avenue	Fort Gordon DPW	DEC-2011
2012	SWMU-27 Corrective Action Plan Progress Report II	ARCADIS	DEC-2012
	SWMU-09 Corrective Action Plan Progress Report II	USACE Savannah	DEC-2012
2013	SWMU-27 Corrective Action Plan Progress Report III	ARCADIS	DEC-2013
	SWMU-09 Corrective Action Plan Progress Report III	USACE Savannah	DEC-2013

FORT GORDON
Installation Restoration Program
Site Descriptions

Site Name: 900 AREA - IND. WW TRMT. PLANT

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

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

Media of Concern: Groundwater, Soil

Phases	Start	End
PA.....	199203.....	199206
SI.....	199203.....	201402
RI/FS.....	201403.....	201905

RIP Date: N/A

RC Date: 201906

SITE DESCRIPTION

FTG-03, also known as the Industrial Wastewater Treatment Plant (IWTP), is located in the 900 Area of the Fort Gillem Enclave. The original IWTP was constructed in the 1940s; construction of the second IWTP began in 1969 at the same location as the old plant and went operational in 1972. Wastewater from both the 900 and 400 areas were treated at the plant. An operational review of the site in 1980 revealed that the plant treated oils, greases, paint chips, phenols, chromates, solvent suspended matter, stripping compounds and alkaline cleaning solutions. In 2004, the remaining structures were demolished and removed from the site. The site was graded and is now unused with extensive vegetative growth.

Several investigative activities have taken place at or in the vicinity of the IWTP since 1980. Studies included, hydrogeologic investigations, an expanded SI, groundwater investigations, sampling of 900 area monitoring wells, and collection of soils and groundwater samples from monitoring wells and soil borings in 2010.

Based on the data collected, and conclusions in the SI report, the primary risk driver at the site is PCE in groundwater. FTG-03 does not appear to be a source of contamination in the 900 Area. Continued study of the 900 Area groundwater and soil contamination is warranted and completion of the RI/FS is underway.

Previously, Base Realignment and Closure (BRAC) V dollars were being utilized to fund investigation and cleanup activities at Fort Gillem. Due to formation of the Fort Gillem Enclave, all future funding will come from Environmental Restoration, Army (ER,A) ER,A accounts for active installations.

A new PBA contract was awarded with a five year period of performance. As part of the base award, the RI/FS will be completed. Future activities are completion of the proposed plan (PP)/ROD and RC. The PP and RODs for this site are for soils only; all groundwater in the 900 area of the Gillem Enclave is being addressed under site FTG-04 which is the contributing site of groundwater contamination in the 900 area.

The initial round of field work supporting the RI has been completed in FY15, the report is pending submission to Army and the GAEPD in FY16.

CLEANUP/EXIT STRATEGY

An RI, FS, PP and decision document (DD) will be completed to address soil contamination at the site. Following completion of the field response, a ROD will be submitted for soils only, as groundwater contamination at the site will be addressed under FTG-04 (former solvent disposal pit).

Site Name: 900 AREA - SOLVENT DISPOSAL PIT

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

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

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

Phases	Start	End
PA.....	199203.....	199206
SI.....	199203.....	199306
RI/FS.....	199307.....	201905
IRA.....	199312.....	199611

RIP Date: N/A

RC Date: 201908

SITE DESCRIPTION

FTG-04, also known as the solvent disposal pit (SDP) is located in the 900 Area of the Gillem Enclave. Former building 900 is also included in the scope of FTG-04. Building 900 was used as the mechanical repair shop for tactical equipment until the 1960s. From then on, the building was used as an aircraft maintenance facility. Wastewater was discharged into a floor drain system which led to the SDP. Leakage from the SDP allowed waste to percolate into the surrounding soils and groundwater.

In 1978, the 900 Area was converted into an administrative and storage facility. Building 900 was removed in 1990 and the area that was the SDP was paved with asphalt.

Environmental investigations at the SDP have been ongoing since the 1980s. Data collected during this time frame indicate that FTG-04 is a significant source of groundwater contamination in the 900 Area. Contaminated soils were removed from the SDP in 1995 and 1996. Reported excavation sidewall and floor confirmation samples contained residual TCE concentrations below the target value of 130 parts per billion (ppb). Groundwater sampling at the SDP indicates a dissolved chlorinated solvent plume with both the overburden and bedrock zones. Data suggests that the plume does extend offpost north of the 900 Area.

Previously, BRAC V dollars were being utilized to fund investigation and cleanup activities at Fort Gillem. Due to formation of the Gillem Enclave, all future funding will come from Environmental Restoration accounts for active Army installations.

A new performance based contract was awarded in FY14 to Environmental Compliance Coordinators with the tasks of completing the RI/FS and PP/ROD. In FY15 the USEPA issued a unilateral administrative order against the Army requesting that a vapor intrusion study be completed to determine if past Army practices were impacting residential neighborhoods surrounding the former Fort Gillem and the Gillem Enclave.

The initial round of fieldwork supporting the RI was completed in FY15, the draft RI report is pending submission to the Army and GAEPD in FY16. The Army continues to address the vapor intrusion according to its CERCLA requirements and the initial round of VI sampling will take place in the Spring of FY16.

CLEANUP/EXIT STRATEGY

A Phase 2 field effort will be conducted followed by an FS, PP and DD.

Site ID: FTG-05

Site Name: 900 AREA - HEATING PLANT

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

Contaminants of Concern: Metals, Petroleum, Oil and Lubricants (POL), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA.....	199203.....	199206
SI.....	199203.....	201402
RI/FS.....	201403.....	201905
IRA.....	199512.....	199601

RIP Date: N/A

RC Date: 201906

SITE DESCRIPTION

This heating plant was located north of building 900 and was abandoned in 1975. Features of the site included a coal burning plant, coal stockpile area, a 42,000 gallon fuel oil UST, a septic tank and lift station. The UST and associated piping were removed in December 1995; the building, coal stockpiles, and other equipment had been removed, graded, and reseeded as of 1995.

Soil samples collected from native soil beneath the UST and associated piping were analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylene (BTEX). All samples were non-detect. Pit water sampled during the UST removal revealed trace levels of ethylbenzene and xylenes. The limited occurrences of these constituents suggest that contamination at the heating plant is not the source material. The TCE exceedances can be attributed to the presence of groundwater contamination from the upgradient site FTG-04 as the subject groundwater sample was obtained below the water table. Additionally, these occurrences are not consistent with the operational history of the heating plant.

Previously, BRAC V dollars were being utilized to fund investigation and cleanup activities at Fort Gillem. Due to formation of the Gillem Enclave, all future funding will come from ER,A accounts for active installations.

In FY14, a new PBA was awarded for the Gillem Enclave sites to address the remaining regulatory requirements. As part of the base award, the RI/FS will be completed. Future activities are completion of the PP, ROD and RC. The PP and ROD for this site are for soils only; all groundwater in the 900 area of the Gillem Enclave is being addressed under site FTG-04 which is the contributing site of groundwater contamination in the 900 area.

The initial round of fieldwork supporting the RI has been completed in FY15, the report is pending submission to Army and the GAEPD in FY16.

CLEANUP/EXIT STRATEGY

An RI, FS, PP and DD will be completed.

Site Name: 900 AREA - VEHICLE WASHRACK

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

Contaminants of Concern: Herbicides, Pesticides, Petroleum, Oil and Lubricants (POL), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
PA.....	199203.....	199206
SI.....	199203.....	201402
RI/FS.....	201402.....	201905

RIP Date: N/A

RC Date: 201906

SITE DESCRIPTION

FTG-06 is a concrete trough structure located northwest of building 900. Dates of operation are unknown. The trough was a drive-through structure used for vehicle washing. Wash water drained from the trough through an underground pipe that discharged into the IWTP.

At the time of the expanded SI, the area was intact but overgrown. As part of the BRAC 2005 visual inspection the washrack was still in place and overgrown. No significant cracks or breaks could be found in the trough.

Soil samples collected from seven borings in the vicinity and adjacent to the washrack did not exhibit evidence of significant contamination but data gaps in the SI along with groundwater contamination at the site prompted moving into the RI/FS phase. All organic compounds detected in the surface and subsurface soil samples were reported in concentrations below USEPA regional screening levels (RSL). Evaluation of the groundwater data collected suggests that impacts can be attributed to FTG-04 which is a known source of contamination in the 900 Area.

Previously, BRAC V dollars were being utilized to fund investigation and cleanup activities at Fort Gillem. Due to the formation of the Gillem Enclave, all future funding will come from Environmental Restoration accounts for active Army installations.

In FY14, a new PBA was awarded for the Gillem Enclave sites to address the remaining regulatory requirements. As part of the base award, the RI/FS will be completed. Future activities are completion of the PP, ROD and RC. The PP and ROD for this site are for soils only; all groundwater in the 900 area of the Gillem Enclave is being addressed under site FTG-04 which is the contributing site of groundwater contamination in the 900 area.

The initial round of fieldwork supporting the RI has been completed in FY15, the report is pending submission to Army and the GAEPD in FY16.

CLEANUP/EXIT STRATEGY

An RI, FS, PP and DD will be completed.

Site Name: WESTERN SEWAGE TREATMENT PLANT

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

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

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

Phases	Start	End
PA.....	197910.....	198003
SI.....	198204.....	198211
RI/FS.....	200309.....	201905

RIP Date: N/A

RC Date: 201906

SITE DESCRIPTION

The Western Sewage Treatment Plant (WSTP), located in the northwestern portion of the installation, was in operation from 1951 to 1978. The operation consisted of a low rate, single stage trickling filter plant, followed by secondary clarification. The waste streams entering the treatment plant consisted mainly of sanitary waste from post operations; however, during the early-1970s, the WSTP intermittently received industrial waste diverted from the IWTP. An expanded site inspection (ESI) was performed at this site in 1994.

The soil gas samples indicated localized, elevated levels of petroleum hydrocarbons and elevated TCE in the east central part of the site. Low concentrations of PCE were detected in a sludge drying bed. In groundwater, TCE above the MCL was detected in the northern and southwestern parts of the site; this compound was present in both the bedrock and saprolite at the northern property line. Groundwater contamination found during the ESI and FY00 sampling may be attributed to an upgradient source not associated with the WSTP. Trichloroethylene in excess of the MCL occurs in the groundwater at the installation boundary. Solvents were detected in the surface water off the installation and north of the WSTP.

In 2006, an RI work plan was completed and a supplemental RI field investigation was completed in June and July 2006. This field investigation focused on the collection of additional groundwater, surface soil, sediment, and surface water quality data. TCE in excess of the MCL was detected in groundwater beyond the installation boundary.

Previously, BRAC V dollars were being utilized to fund investigation and cleanup activities at Fort Gillem. Due to formation of the Gillem Enclave, all future funding will come from Environmental Restoration accounts for active Army installations.

In FY14, a new PBA was awarded for the Gillem Enclave sites to address the remaining regulatory requirements. As part of the base award, the RI/FS will be completed. Future activities are completion of the PP.

The initial round of fieldwork supporting the RI has been completed in FY15, the report is pending submission to Army and the GAEPD in FY16. During the course of the RI, it has been discovered that FTG-13 is not the source of off-site TCE contamination as previously believed. New site CCGE-01 is the suspected source of groundwater contamination and future evaluations of the TCE plume will be evaluated under that site. Based on this information the Army expects closure of site FTG-13 in FY17.

CLEANUP/EXIT STRATEGY

A Phase 2 field effort will be conducted followed by an FS, PP and DD.

Site Name: BUILDING 955 ELECTROPLATING SUMP

STATUS

Regulatory Driver: RCRA
RRSE: HIGH
Contaminants of Concern: Volatiles (VOC)
Media of Concern: Groundwater, Surface Water

Table with 3 columns: Phases, Start, End. Rows include RFA, CS, RFI/CMS, DES, IRA, CMI(C), CMI(O), RIP Date, and RC Date.

SITE DESCRIPTION

Building 955 is located on 10th Street at Brainard Avenue. At one time, this building was used for chrome plating and parkerizing using zinc and magnesium in the course of small arms repair and reconditioning metal parts.

On Oct. 15, 2010 the GAEPD approved the implementation of the SWMU-09 pilot test work plan. A pilot study began in January 2011. Upon successful implementation of the pilot-scale test, full-scale implementation of the groundwater capture and treatment system was approved by the GAEPD as part of the CAP.

A new PBA contract was awarded to PIKA-ARCADIS in FY14 with the task of continued operation and maintenance of the approved CAP. Currently the CAP is performing as designed.

Modifications have been made to the carbon change out schedule to maintain compliance with the remedial goals in the approved CAP.

CLEANUP/EXIT STRATEGY

Continued operation of the approved CAP is planned. An additional two years of semiannual monitoring is anticipated before petitioning the GAEPD to allow annual monitoring. Initial estimates suggest a time frame of 30 to 40 years to achieve site closure.

Site ID: FTGD-027
Site Name: 3RD AVENUE LANDFILL

STATUS

Regulatory Driver: RCRA

RRSE: HIGH

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

Media of Concern: Groundwater, Sediment, Surface Water

Phases	Start	End
RFA.....	198902.....	198906
CS.....	198902.....	198906
RFI/CMS.....	199310.....	200709
DES.....	200407.....	200709
CMI(C).....	200407.....	200912
CMI(O).....	200407.....	203008
RIP Date:	200912	
RC Date:	203009	

SITE DESCRIPTION

The 3rd Avenue landfill is inactive and is located south of 3rd Avenue and east of the 25th Street landfill. They are separated by the unnamed intermittent creek flowing to Mirror Lake. The landfill covers approximately 65 well-wooded acres and slopes to the southwest. Sanitary refuse and construction debris are assumed to have been deposited in the landfill until its closure in 1964. The date operations began is unknown. The Part B permit renewal incorporated approval of the CAP in FY10.

A new PBA was awarded for FTGD-27 in late FY14 and will continue to provide the necessary requirements to meet the obligations of the approved CAP. Since the approved CAP estimates 20 years of sampling will be required to reach corrective action objectives (CAO), an additional 11 years (FY20-FY30) of annual sampling is required at this site to reach remedial objectives.

CLEANUP/EXIT STRATEGY

MNA sampling will continue until MNA goals are reached. Initial estimates suggest a time frame of 30 to 40 years to reach remedial goals.

Site Name: Fmr Recreational Skeet Shooting Rng

STATUS

Regulatory Driver: RCRA

RRSE: LOW

Contaminants of Concern: Metals, Semi-volatiles (SVOC)

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200503.....	200505
CS.....	200702.....	200711
RFI/CMS.....	200810.....	201909

RIP Date: N/A

RC Date: 201909

SITE DESCRIPTION

This site of about 26.2 acres was a recreational skeet shooting range which was identified by the GAEPD during a RCRA compliance inspection and subsequently identified on May 10, 2005 as an AOC in accordance with FTGD's Hazardous Waste Facility Permit No. HW-081(S)-2, Section III. Delay in adding this site is due to difficulty securing Operations and Maintenance, Army (OMA) funds for the CS that had to occur and to subsequent GAEPD review.

On Nov. 9, 2007 the GAEPD identified this site as a SWMU requiring that an RFI be conducted. According to interviews conducted during the SWMU assessment report research and data gathering event, the site was in operation from an unknown date and closed between 1985 and 1986. The primary activity was the use of shotguns and lead shot to shoot skeet thrown from the ground into the air. Site reconnaissance identified lead shot on the surface which is leaching into subsurface soils. Large piles of broken skeet have also been identified within the site and are leaching polycyclic aromatic hydrocarbons (PAH) into subsurface soils down to a depth of 9 feet in some locations.

Currently data gaps exist in the RFI. A new PBA contract has been awarded through the US Corps of Engineers (USACE) Huntsville District in FY15 to address these deficiencies. Completion of the RFI, corrective measures study (CMS) and subsequent RAs will be required to achieve RIP/RC.

CLEANUP/EXIT STRATEGY

An RFI was submitted to the GAEPD and is pending approval. FTGD expects the final action will be soil excavation with land use controls (LUC).

Site ID: FTGD-047

Site Name: Fmr POL Sump Bldg 13802

STATUS

Regulatory Driver: RCRA

RRSE: LOW

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

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200004.....	200006
CS.....	200609.....	200711
RFI/CMS.....	200811.....	201612

RIP Date: N/A

RC Date: 201706

SITE DESCRIPTION

The Building 13802 sump was identified by FTGD in April 2000 and is estimated at 0.5 acre. On June 7, 2000 an RFA was drafted and submitted to the GAEPD. The GAEPD identified the site as an AOC and on Oct. 18, 2004 they required CS. On Nov. 26, 2007 the site was identified by the GAEPD as a SWMU, requiring that an RFI be conducted. According to interviews conducted during the SWMU assessment report research and data gathering event, the site was in operation from an unknown date and was closed by 1986. The primary activity was as a motor pool area with a POL building containing a sump that goes directly to the soil. The storage and possible disposal of POLs and other hazardous wastes into the sump is the primary concern. The RFI fieldwork began in FY10. Draft RFIs and Risk Assessments are pending.

A new PBA contract was awarded to PIKA-ARCADIS in June 2014 with tasks to achieve RC. Phase one of the RFI field work was completed in 2015 and follow up sampling will continue in 2016 to achieve RC.

CLEANUP/EXIT STRATEGY

The RFI is currently underway and near completion. The installation expects site closure at industrial standards upon completion of the RFI and risk assessment.

Site ID: FTGD-048

Site Name: Fmr POL Sump Bldg 13805

STATUS

Regulatory Driver: RCRA

RRSE: LOW

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

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200004.....	200006
CS.....	200609.....	200711
RFI/CMS.....	200811.....	201612

RIP Date: N/A

RC Date: 201706

SITE DESCRIPTION

The Building 13805 sump was identified by FTGD in April 2000 and is estimated at 0.5 acre. On June 7, 2000, an RFA was drafted and submitted to the GAEPD. The GAEPD identified the site as an AOC and on Oct. 18, 2004 they required CS. On Nov. 26, 2007 the site was identified by the GAEPD as a SWMU, requiring that an RFI be conducted. According to interviews conducted during the SWMU assessment report research and data gathering event, the site was in operation from an unknown date and was closed by 1986. The primary activity was as a motor pool area with a POL building containing a sump that goes directly to the soil. The storage and possible disposal of POLs and other hazardous wastes into the sump is the primary concern. The RFI fieldwork began in FY10. Draft RFIs and risk assessments are pending.

A new PBA contract was awarded to PIKA-ARCADIS in June 2014 with tasks to achieve RC. Phase one of the RFI field work was completed in 2015 and follow up sampling will continue in 2016 to achieve RC.

CLEANUP/EXIT STRATEGY

The RFI is currently underway and near completion. The installation expects site closure at industrial standards upon completion of the RFI and risk assessment. LUC inspections and period reviews will continue.

Site ID: FTGD-049
Site Name: Fmr POL Sump Bldg 11813

STATUS

Regulatory Driver: RCRA

RRSE: LOW

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

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200501.....	200502
CS.....	200609.....	200711
RFI/CMS.....	200811.....	201909

RIP Date: N/A

RC Date: 201909

SITE DESCRIPTION

The Building 11813 sump site was identified by FTGD in January 2005 during the FTGD WW II wooden building deconstruction installation-wide project and is estimated at 5.3 acres. On Feb. 16, 2005 an RFA was drafted and submitted to the GAEPD. The GAEPD identified the site as an AOC and on March 8, 2005 they required CS. On Nov. 26, 2007 the site was identified by the GAEPD as a SWMU, requiring that an RFI be conducted. According to interviews conducted during the SWMU assessment report research and data gathering event, the site was in operation from an unknown date and was closed by 1986. The primary activity was as a motor pool area with a POL building containing a sump that goes directly to the soil. The storage and possible disposal of POLs and other hazardous wastes into the sump is the primary concern. The RFI fieldwork began in FY10 and is currently underway. Initial results from the RFI indicated more extensive contamination. Additional fieldwork is necessary to delineate contamination.

A new PBA contract was awarded to PIKA-ARCADIS in June 2014 with tasks to achieve RC. Phase one of the RFI field work was completed in 2015 and follow up sampling will continue in 2016 to achieve RC.

CLEANUP/EXIT STRATEGY

The RFI is currently underway and near completion. Additional fieldwork will be required to achieve site closure.

Site ID: FTGD-050

Site Name: Fmr POL Sump Bldg 10306

STATUS

Regulatory Driver: RCRA

RRSE: LOW

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

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200501.....	200502
CS.....	200609.....	200711
RFI/CMS.....	200811.....	201909

RIP Date: N/A

RC Date: 201909

SITE DESCRIPTION

The Building 10306 sump was identified by FTGD in January 2005 during the FTGD WW-II wooden building deconstruction installation-wide project and is estimated at 0.64 acre. On Feb. 16, 2005 an RFA was drafted and submitted to the GAEPD. The GAEPD identified the site as an AOC and on March 8, 2005 they required CS. On Nov. 26, 2007 the site was identified by the GAEPD as a SWMU, requiring that an RFI be conducted. According to interviews conducted during the SWMU assessment report research and data gathering event, the site was in operation from an unknown date and was closed by 1986. The primary activity was as a motor pool area with a POL building containing a 2-foot by 2-foot by 3-foot sump that goes directly to the soil. The storage and possible disposal of POLs and other hazardous wastes into the sump is the primary concern. A draft RFI has been submitted to the installation for review. Preliminary results from the soil borings at the site suggest more extensive contamination than previously assumed, and that additional remedial activities at the site may be required by the GAEPD to achieve closure.

A new PBA contract was awarded to PIKA-ARCADIS in June 2014 with tasks to achieve RC. Phase one of the RFI field work was completed in 2015 and follow up sampling will continue in 2016 to achieve RC.

CLEANUP/EXIT STRATEGY

The RFI is currently underway and near completion. Additional fieldwork is expected to be required to achieve site closure.

Site ID: FTGD-051
Site Name: Fmr POL Sump Bldg 985

STATUS

Regulatory Driver: RCRA

RRSE: LOW

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

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200501.....	200502
CS.....	200609.....	200711
RFI/CMS.....	200811.....	201612

RIP Date: N/A

RC Date: 201702

SITE DESCRIPTION

The Building 985 sump was identified by FTGD in January 2005 during the FTGD WW II wooden building deconstruction installation-wide project and is estimated at 0.39 acre. On Feb. 16, 2005 an RFA was drafted and submitted to the GAEPD. The GAEPD identified the site as an AOC and on March 8, 2005 they required CS. On Nov. 26, 2007 the site was identified by GAEPD as a SWMU, requiring that an RFI be conducted. According to interviews conducted during the SWMU assessment report research and data gathering event, the site was in operation from an unknown date and was closed by 1986. The primary activity was as a motor pool area with a POL building containing a 2-foot by 2-foot by 3-foot sump that goes directly to the soil.

The storage and possible disposal of POLs and other hazardous wastes into the sump is the primary concern. The RFI fieldwork began in FY10. A draft RFIs and risk assessments are pending.

A new PBA contract was awarded to PIKA-ARCADIS in June 2014 with tasks to achieve RC. Phase one of the RFI fieldwork was completed in 2015 and follow up sampling will continue in 2016 to achieve RC.

CLEANUP/EXIT STRATEGY

The RFI is currently underway and near completion. Additional fieldwork is expected to be required to achieve site closure.

Site ID: FTGD-054

Site Name: Fmr POL Sump Bldg 91701

STATUS

Regulatory Driver: RCRA

RRSE: LOW

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

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200501.....	200502
CS.....	200609.....	200711
RFI/CMS.....	200811.....	201612

RIP Date: N/A

RC Date: 201702

SITE DESCRIPTION

The Building 91701 sump was identified by FTGD in January 2005 during the FTGD WWII wooden building deconstruction installation-wide project and is estimated at 0.81 acre. On Feb. 16, 2005 an RFA was drafted and submitted to the GAEPD. The GAEPD identified the site as an AOC and on March 8, 2005 they required CS. On Nov. 26, 2007 the site was identified by the GAEPD as a SWMU, requiring that an RFI be conducted. According to interviews conducted during the SWMU assessment report research and data gathering event, the site was in operation from an unknown date and was closed by 1986. The primary activity was as a motor pool area with a POL building containing a 2-foot by 2-foot by 3-foot sump that goes directly to the soil.

The storage and possible disposal of POLs and other hazardous wastes into the sump is the primary concern. The RFI fieldwork began in FY10. A draft RFI and risk assessments are pending.

A new PBA contract was awarded to PIKA-ARCADIS in June 2014 with tasks to achieve RC. Phase 1 of the RFI fieldwork was completed in 2015 and follow up sampling will continue in 2016 to achieve RC.

CLEANUP/EXIT STRATEGY

The RFI is currently underway and near completion. Additional fieldwork is expected to be required to achieve site closure.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTGD-001	Ft Gordon GFPR Compilation Site	201201	GFPR place holder site that was closed after completion of GFPR contract.
FTGD-004	BLDG 985 DRMO SUMP	199201	No evidence of contamination was found during the original assessment; therefore no further response is planned under the restoration program.
FTGD-006	DRMO DRUM STORAGE AREA	200407	The revised final RFI report was submitted to GA-EPD in August 2003, and received a NFA on July 13, 2004. The site was removed from the RCRA Permit.
FTGD-006A	SITE UPGRADIENT TO SWMU 006	200605	A final RFI report was prepared and submitted to the GA-EPD. NFA was received from GA-EPD on May 2, 2006.
FTGD-008	BLDG 964 CHLORINATED SOLVENT EVAP AREA	199201	No evidence of contamination was found during the original assessment; therefore no further response is planned under the restoration program.
FTGD-010	BUILDING 952 OLD BATTERY SHOP	200406	The revised final RFI report was submitted to GA-EPD in August 2003, and received a NFA on June 30, 2004. The site was removed from the RCRA Permit.
FTGD-011	INCINERATOR ASH, BLDG 310	200404	The revised final RFI report was submitted to GA-EPD in August 2003, and received an NFA on April 6, 2004. The site was removed from the RCRA Permit.
FTGD-012H	UST(4) AT BLDG 18806, RECYCLING CENTER	200103	This site received NFA from GA EPD on March 28, 2001.
FTGD-013	BLDG 332 LABS	199201	No evidence of contamination was found during the original assessment; therefore no further response is planned under the restoration program.
FTGD-014	BUILDING 15904, PAST PCB STORAGE	200308	The IM completion report was submitted to GA-EPD on May 30, 2003, and received NFA on August 12, 2003, and is was removed from the RCRA Permit.
FTGD-017	BUILDING 961/962 SOLVENT EVAP DISP AREA	199307	No evidence of contamination was found during the original assessment; therefore no further response is planned under the restoration program.
FTGD-019	67TH MOTOR POOL WASH RACK BUILDING 21801	200609	This site received NFA from GA-EPD on Aug. 28, 2006.
FTGD-020	BLDG 961 PHOTO WASTEWATER DISCHARGE	200411	NFA was received for this site from GA-EPD on Nov. 19, 2004.
FTGD-020A	950'S & 960'S BLOCK STORMWATER SEWERS	200412	NFA was received for this site from GA-EPD on Dec. 20, 2004.
FTGD-021	WESTERN SMALL ARMS BURNING GROUND	200507	NFA was received for this site from GA-EPD on July 6, 2005.
FTGD-022	ARTILLERY IMPACT AREA/DEMOLITION GROUND	199703	NFA was received from GA-EPD in December 1995.
FTGD-023	BLDG 964 PAINT WASTE/THINNER DISCHARGE	199307	No evidence of contamination was found during the original assessment; therefore no further response is planned under the restoration program.
FTGD-024	17TH STREET LANDFILL	200605	NFA granted from GA-EPD May 2, 2006 under the hazardous waste permit.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
			Ongoing long-term monitoring and landfill cap integrity inspections are continued under Solid Waste Handling Permit No. 121-010D(SL).
FTGD-024A	SITE UPGRADIENT TO SWMU 024	200509	NFA was received for this site from GA-EPD on Nov. 28, 2005 under the hazardous waste program.
FTGD-025	25TH STREET LANDFILL	200410	NFA was received for this site from GA-EPD on Oct. 14, 2004.
FTGD-026	19TH STREET LANDFILL	200701	NFA was received from GA-EPD on Jan. 29, 2007.
FTGD-027A	SITE UPGRADIENT OF SWMUS 025/027	200609	NFA was received from GA-EPD on Sept. 12, 2006.
FTGD-028	8TH AVENUE LANDFILL	200510	NFA was received for this site from GA-EPD on July 28, 2005.
FTGD-029	GIBSON RD NEW LANDFILL (W OF SAWMILL RD)	199307	The site was grandfathered into the Restoration Management Information System (RMIS) program; however, because it is an active site, no further investigation will occur under the IRP.
FTGD-030	WASTEWATER TREATMENT PLANT	199307	The site was grandfathered into the RMIS program; however, because it is an active site, no further investigation will occur under the IRP.
FTGD-031	BLDG 984 PHOTO WASTE PIT/SUMP (DRMO)	200410	NFA was received for this site from GA-EPD on Oct. 15, 2004.
FTGD-032	WWTP SLUDGE WASTE PILE	200411	NFA was received for this site from GA-EPD on Nov. 10, 2004.
FTGD-032A	WWTP SLUDGE WASTE PILE	200404	A final RFI report was submitted on Jan. 15, 2004 and received a NFA on April 7, 2004 from GA-EPD. The site was removed from the RCRA Permit.
FTGD-032B	WWTP SLUDGE WASTE PILE	200412	NFA was received for this site from GA-EPD on Dec 20, 2004.
FTGD-033	LAUNDRY BOILER BUILDING 2202	199201	No evidence of contamination was found during the original assessment and the incinerator and building have been removed; therefore, no further response is required under the restoration program.
FTGD-034	BLDG 2401, VEHICLE MAINT AREA	199307	No evidence of contamination was found during the original assessment; therefore no further response is required under the IRP.
FTGD-035	BLDG 2030 PESTICIDE STORAGE AND MIXING	200510	NFA was received for this site from GA-EPD on Oct. 31, 2005.
FTGD-036	FORMER SMALL ARMS BURNING GROUND	200609	NFA was received from GA-EPD on Nov. 30, 2006.
FTGD-037	DEFOLIANT TESTING AREA	199510	NFA was received from GA-EPD on October 31, 1995.
FTGD-038	MAGAZINE AREA (21 BUNKERS)	200509	NFA was received for this site from GA-EPD on Sept. 12, 2005.
FTGD-039	GAS CHAMBER	200503	NFA was received for this site from GA-EPD on March 8, 2005.
FTGD-040	BLDG 22305 MOTORPOOL/POL BUILDING SUMP	200405	The revised final RFI report was submitted in March 2004, and received NFA on May

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
			4, 2004 to GA-EPD. The site was removed from the RCRA Permit modification.
FTGD-041	BLDG 21306 MOTORPOOL/POL BUILDING SUMP	200405	The revised final RFI report was submitted to GA-EPD in March 2004, and received a tentative NFA on May 4, 2004, and is pending final RCRA Permit modification.
FTGD-042	BLDG 25305 MOTORPOOL/POL BUILDING SUMP	200405	The installation received NFA from GA-EPD on May 4, 2004.
FTGD-043	BLDG 26304 MOTORPOOL/POL BUILDING SUMP	200502	NFA was received for this site from GA-EPD on Feb. 15, 2005.

IRP Schedule

Date of IRP Inception: 197910

Past Phase Completion Milestones

1980

PA (FTG-13 - WESTERN SEWAGE TREATMENT PLANT)

1982

PA (FTGD-030 - WASTEWATER TREATMENT PLANT)

CS (FTGD-014 - BUILDING 15904, PAST PCB STORAGE)

RFA (FTGD-013 - BLDG 332 LABS, FTGD-014 - BUILDING 15904, PAST PCB STORAGE, FTGD-017 - BUILDING 961/962 SOLVENT EVAP DISP AREA, FTGD-029 - GIBSON RD NEW LANDFILL (W OF SAWMILL RD), FTGD-033 - LAUNDRY BOILER BUILDING 2202, FTGD-034 - BLDG 2401, VEHICLE MAINT AREA, FTGD-035 - BLDG 2030 PESTICIDE STORAGE AND MIXING)

1983

SI (FTG-13 - WESTERN SEWAGE TREATMENT PLANT)

1989

CS (FTGD-006 - DRMO DRUM STORAGE AREA, FTGD-009 - BUILDING 955 ELECTROPLATING SUMP, FTGD-010 - BUILDING 952 OLD BATTERY SHOP, FTGD-011 - INCINERATOR ASH, BLDG 310, FTGD-019 - 67TH MOTOR POOL WASH RACK BUILDING 21801, FTGD-020 - BLDG 961 PHOTO WASTEWATER DISCHARGE, FTGD-020A - 950'S & 960'S BLOCK STORMWATER SEWERS, FTGD-021 - WESTERN SMALL ARMS BURNING GROUND, FTGD-022 - ARTILLERY IMPACT AREA/DEMOLITION GROUND, FTGD-024 - 17TH STREET LANDFILL, FTGD-025 - 25TH STREET LANDFILL, FTGD-026 - 19TH STREET LANDFILL, FTGD-027 - 3RD AVENUE LANDFILL, FTGD-028 - 8TH AVENUE LANDFILL, FTGD-031 - BLDG 984 PHOTO WASTE PIT/SUMP (DRMO), FTGD-032 - WWTP SLUDGE WASTE PILE, FTGD-032A - WWTP SLUDGE WASTE PILE, FTGD-032B - WWTP SLUDGE WASTE PILE, FTGD-036 - FORMER SMALL ARMS BURNING GROUND)

RFA (FTGD-001 - Ft Gordon GFPR Compilation Site, FTGD-004 - BLDG 985 DRMO SUMP, FTGD-006 - DRMO DRUM STORAGE AREA, FTGD-009 - BUILDING 955 ELECTROPLATING SUMP, FTGD-010 - BUILDING 952 OLD BATTERY SHOP, FTGD-011 - INCINERATOR ASH, BLDG 310, FTGD-019 - 67TH MOTOR POOL WASH RACK BUILDING 21801, FTGD-020 - BLDG 961 PHOTO WASTEWATER DISCHARGE, FTGD-020A - 950'S & 960'S BLOCK STORMWATER SEWERS, FTGD-021 - WESTERN SMALL ARMS BURNING GROUND, FTGD-022 - ARTILLERY IMPACT AREA/DEMOLITION GROUND, FTGD-024 - 17TH STREET LANDFILL, FTGD-025 - 25TH STREET LANDFILL, FTGD-026 - 19TH STREET LANDFILL, FTGD-027 - 3RD AVENUE LANDFILL, FTGD-028 - 8TH AVENUE LANDFILL, FTGD-031 - BLDG 984 PHOTO WASTE PIT/SUMP (DRMO), FTGD-032 - WWTP SLUDGE WASTE PILE, FTGD-032A - WWTP SLUDGE WASTE PILE, FTGD-032B - WWTP SLUDGE WASTE PILE, FTGD-036 - FORMER SMALL ARMS BURNING GROUND)

1992

RFA (FTGD-008 - BLDG 964 CHLORINATED SOLVENT EVAP AREA, FTGD-012H - UST(4) AT BLDG 18806, RECYCLING CENTER, FTGD-023 - BLDG 964 PAINT WASTE/THINNER DISCHARGE, FTGD-037 - DEFOLIANT TESTING AREA, FTGD-038 - MAGAZINE AREA (21 BUNKERS), FTGD-039 - GAS CHAMBER)

PA (FTG-03 - 900 AREA - IND. WW TRMT. PLANT, FTG-04 - 900 AREA - SOLVENT DISPOSAL PIT, FTG-05 - 900 AREA - HEATING PLANT, FTG-06 - 900 AREA - VEHICLE WASHRACK)

IRA (FTGD-012H - UST(4) AT BLDG 18806, RECYCLING CENTER)

CS (FTGD-004 - BLDG 985 DRMO SUMP, FTGD-008 - BLDG 964 CHLORINATED SOLVENT EVAP AREA, FTGD-012H - UST(4) AT BLDG 18806, RECYCLING CENTER, FTGD-013 - BLDG 332 LABS, FTGD-017 - BUILDING 961/962 SOLVENT EVAP DISP AREA, FTGD-023 - BLDG 964 PAINT WASTE/THINNER DISCHARGE, FTGD-029 - GIBSON RD NEW LANDFILL (W OF SAWMILL RD), FTGD-033 - LAUNDRY BOILER BUILDING 2202, FTGD-034 - BLDG 2401, VEHICLE MAINT AREA, FTGD-035 - BLDG 2030 PESTICIDE STORAGE AND MIXING, FTGD-037 - DEFOLIANT TESTING AREA, FTGD-038 - MAGAZINE AREA (21 BUNKERS), FTGD-039 - GAS CHAMBER)

SI (FTGD-030 - WASTEWATER TREATMENT PLANT)

1993

SI (FTG-04 - 900 AREA - SOLVENT DISPOSAL PIT)

1996

CS (FTGD-006A - SITE UPGRADIENT TO SWMU 006, FTGD-024A - SITE UPGRADIENT TO SWMU 024,

IRP Schedule

	FTGD-027A - SITE UPGRADIENT OF SWMUS 025/027)
RFA	(FTGD-006A - SITE UPGRADIENT TO SWMU 006, FTGD-024A - SITE UPGRADIENT TO SWMU 024, FTGD-027A - SITE UPGRADIENT OF SWMUS 025/027)
RFI/CMS	(FTGD-022 - ARTILLERY IMPACT AREA/DEMOLITION GROUND, FTGD-037 - DEFOLIANT TESTING AREA)
IRA	(FTG-05 - 900 AREA - HEATING PLANT)
1997	
IRA	(FTG-04 - 900 AREA - SOLVENT DISPOSAL PIT, FTGD-036 - FORMER SMALL ARMS BURNING GROUND)
2000	
CS	(FTGD-040 - BLDG 22305 MOTORPOOL/POL BUILDING SUMP, FTGD-041 - BLDG 21306 MOTORPOOL/POL BUILDING SUMP, FTGD-042 - BLDG 25305 MOTORPOOL/POL BUILDING SUMP, FTGD-043 - BLDG 26304 MOTORPOOL/POL BUILDING SUMP)
RFA	(FTGD-040 - BLDG 22305 MOTORPOOL/POL BUILDING SUMP, FTGD-041 - BLDG 21306 MOTORPOOL/POL BUILDING SUMP, FTGD-042 - BLDG 25305 MOTORPOOL/POL BUILDING SUMP, FTGD-043 - BLDG 26304 MOTORPOOL/POL BUILDING SUMP, FTGD-047 - Fmr POL Sump Bldg 13802, FTGD-048 - Fmr POL Sump Bldg 13805)
2001	
RFI/CMS	(FTGD-012H - UST(4) AT BLDG 18806, RECYCLING CENTER)
2003	
RFI/CMS	(FTGD-014 - BUILDING 15904, PAST PCB STORAGE)
IRA	(FTGD-014 - BUILDING 15904, PAST PCB STORAGE, FTGD-020A - 950'S & 960'S BLOCK STORMWATER SEWERS, FTGD-031 - BLDG 984 PHOTO WASTE PIT/SUMP (DRMO))
2004	
IRA	(FTGD-035 - BLDG 2030 PESTICIDE STORAGE AND MIXING)
RFI/CMS	(FTGD-006 - DRMO DRUM STORAGE AREA, FTGD-010 - BUILDING 952 OLD BATTERY SHOP, FTGD-011 - INCINERATOR ASH, BLDG 310, FTGD-032A - WWTP SLUDGE WASTE PILE , FTGD-040 - BLDG 22305 MOTORPOOL/POL BUILDING SUMP, FTGD-041 - BLDG 21306 MOTORPOOL/POL BUILDING SUMP, FTGD-042 - BLDG 25305 MOTORPOOL/POL BUILDING SUMP)
2005	
RFA	(FTGD-046 - Fmr Recreational Skeet Shooting Rng, FTGD-049 - Fmr POL Sump Bldg 11813, FTGD-050 - Fmr POL Sump Bldg 10306, FTGD-051 - Fmr POL Sump Bldg 985, FTGD-054 - Fmr POL Sump Bldg 91701)
RFI/CMS	(FTGD-020 - BLDG 961 PHOTO WASTEWATER DISCHARGE, FTGD-020A - 950'S & 960'S BLOCK STORMWATER SEWERS, FTGD-021 - WESTERN SMALL ARMS BURNING GROUND, FTGD-024A - SITE UPGRADIENT TO SWMU 024, FTGD-025 - 25TH STREET LANDFILL, FTGD-031 - BLDG 984 PHOTO WASTE PIT/SUMP (DRMO), FTGD-032 - WWTP SLUDGE WASTE PILE, FTGD-032B - WWTP SLUDGE WASTE PILE , FTGD-036 - FORMER SMALL ARMS BURNING GROUND, FTGD-038 - MAGAZINE AREA (21 BUNKERS), FTGD-039 - GAS CHAMBER, FTGD-043 - BLDG 26304 MOTORPOOL/POL BUILDING SUMP)
2006	
DES	(FTGD-024 - 17TH STREET LANDFILL)
CMI(C)	(FTGD-024 - 17TH STREET LANDFILL, FTGD-036 - FORMER SMALL ARMS BURNING GROUND)
RFI/CMS	(FTGD-006A - SITE UPGRADIENT TO SWMU 006, FTGD-019 - 67TH MOTOR POOL WASH RACK BUILDING 21801, FTGD-024 - 17TH STREET LANDFILL, FTGD-027A - SITE UPGRADIENT OF SWMUS 025/027, FTGD-028 - 8TH AVENUE LANDFILL, FTGD-035 - BLDG 2030 PESTICIDE STORAGE AND MIXING)
2007	
DES	(FTGD-009 - BUILDING 955 ELECTROPLATING SUMP, FTGD-027 - 3RD AVENUE LANDFILL)
RFI/CMS	(FTGD-009 - BUILDING 955 ELECTROPLATING SUMP, FTGD-026 - 19TH STREET LANDFILL, FTGD-027 - 3RD AVENUE LANDFILL)
IRA	(FTGD-009 - BUILDING 955 ELECTROPLATING SUMP, FTGD-026 - 19TH STREET LANDFILL)

IRP Schedule

CMI(C)	(FTGD-001 - Ft Gordon GFPR Compilation Site)
2008	
CS	(FTGD-046 - Fmr Recreational Skeet Shooting Rng, FTGD-047 - Fmr POL Sump Bldg 13802, FTGD-048 - Fmr POL Sump Bldg 13805, FTGD-049 - Fmr POL Sump Bldg 11813, FTGD-050 - Fmr POL Sump Bldg 10306, FTGD-051 - Fmr POL Sump Bldg 985, FTGD-054 - Fmr POL Sump Bldg 91701)
2010	
CMI(C)	(FTGD-027 - 3RD AVENUE LANDFILL)
2011	
CMI(C)	(FTGD-009 - BUILDING 955 ELECTROPLATING SUMP)
2012	
LTM	(FTGD-001 - Ft Gordon GFPR Compilation Site)
2014	
SI	(FTG-03 - 900 AREA - IND. WW TRMT. PLANT, FTG-05 - 900 AREA - HEATING PLANT, FTG-06 - 900 AREA - VEHICLE WASHRACK)

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
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Final RA(C) Completion Date: 201109

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of IRP at Installation (including LTM phase): 204007

FORT GORDON IRP Schedule

 = phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTG-03	900 AREA - IND. WW TRMT. PLANT	RI/FS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTG-04	900 AREA - SOLVENT DISPOSAL PIT	RI/FS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTG-05	900 AREA - HEATING PLANT	RI/FS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTG-06	900 AREA - VEHICLE WASHRACK	RI/FS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTG-13	WESTERN SEWAGE TREATMENT PLANT	RI/FS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTGD-009	BUILDING 955 ELECTROPLATING SUMP	CMI(O)						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTGD-027	3RD AVENUE LANDFILL	CMI(O)						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTGD-046	Fmr Recreational Skeet Shooting Rng	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTGD-047	Fmr POL Sump Bldg 13802	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTGD-048	Fmr POL Sump Bldg 13805	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTGD-049	Fmr POL Sump Bldg 11813	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTGD-050	Fmr POL Sump Bldg 10306	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTGD-051	Fmr POL Sump Bldg 985	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTGD-054	Fmr POL Sump Bldg 91701	RFI/CMS						

FORT GORDON
Army Defense Environmental Restoration Program
Military Munitions Response Program

MMRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 2/1

Installation Site Types with Future and/or Underway Phases

1 Unexploded Munitions/Ordnance
(FTGD-001-R-01)

Most Widespread Contaminants of Concern

Munitions constituents (MC)

Media of Concern

Soil

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

Site ID	Site Name	Action	Remedy	FY
N/A				

Duration of MMRP

Date of MMRP Inception 201308

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201706/201706

Date of MMRP completion including Long Term Management (LTM): 201706

MMRP Contamination Assessment

Contamination Assessment Overview

Site FTGD-001-R-01 is pending evaluation.

Cleanup Exit Strategy

Perform CS study to determine if additional investigations will be required.

MMRP Previous Studies

2013

Title	Author	Date
Solid Waste Management Unit Assessment Report (SAR) Artillery Impact Area, Camp Hancock, Augusta, GA	Fort Gordon	JAN-2013

FORT GORDON

Military Munitions Response Program

Site Descriptions

Site ID: FTGD-001-R-01
Site Name: Former WWI impact area

STATUS

Regulatory Driver: RCRA
MRSP Score: Evaluation pending
Contaminants of Concern: Metals, Munitions constituents (MC)
Media of Concern: Soil

Phases	Start	End
RFA.....	201308.....	201312
CS.....	201403.....	201706
RIP Date:	N/A	
RC Date:	201706	

SITE DESCRIPTION

As part of an installation review of historic maps, a War Department map from 1917 depicting a former World War I Army post named Camp Hancock was discovered. The main garrison was located at the present day area of Daniel Field; however, when the map was geo-referenced and overlaid onto a present day map, Camp Hancock's artillery impact area was shown to be contained within FTGD's cantonment area.

To date, no WWI munitions have been discovered in the cantonment area. In addition, the Formerly Used Defense Site (FUDS) investigation of Camp Hancock (FUDS Project No. 104GA098901) turned up no munitions or munitions constituents. The report documented that the impact area was used for training and that its former location is present day FTGD.

A contract was awarded in 2014 to fund the SI, establish baseline data and assess the need for further investigation of the Camp Hancock Artillery Impact Area. This site is currently fully funded and not expected to go beyond the SI phase.

The draft PA/SI work plan was submitted to the GAEPD for review and approval in November 2015. A spring 2016 mobilization is planned to execute the approved work plan.

CLEANUP/EXIT STRATEGY

Complete the confirmation sampling and determine if further investigation is warranted.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTDG-002-R-01	demo pit	201602	

MMRP Schedule

Date of MMRP Inception 201308

Past Phase Completion Milestones

2014

PA (FTDG-002-R-01 - demo pit)

RFA (FTGD-001-R-01 - Former WWI impact area)

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: N/A

Estimated Completion Date of MMRP at Installation (including LTM phase): 201706

FORT GORDON MMRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
FTGD-001-R-01	Former WWI impact area	CS						

FORT GORDON
Army Defense Environmental Restoration Program
Compliance Restoration

CR Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 8/1

Installation Site Types with Future and/or Underway Phases

- 1 Above Ground Storage Tank
(CCFTGD-56)
- 1 Landfill
(CCGE-01)
- 1 Maintenance Yard
(CCFTGD-57)
- 1 Small Arms Range
(CCFTG-18E)
- 2 Soil Contamination After Tank Removal
(CCSWMU-008, CCSWMU015)
- 1 Training and Maneuver Area
(CCFTGD-58)

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
CCSWMU01 5	UST SITE 15 (#1380 - 9121067)	IRA	FREE PRODUCT RECOVERY	2005
CCSWMU01 5	UST SITE 15 (#1380 - 9121067)	FRA	BIOREMEDIATION - IN SITU	2009
CCSWMU01 5	UST SITE 15 (#1380 - 9121067)	FRA	FREE PRODUCT RECOVERY	2009
CCSWMU- 008	UST SITE 8 (#49300-1210079)	FRA	NATURAL ATTENUATION	2014

Duration of CR

Date of CR Inception: 199202

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 202007/202007

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

CR Contamination Assessment

Contamination Assessment Overview

A significant number of USTs were used at FTGD for the storage of gasoline, diesel, used oil, and heating fuel. They ranged in size from 500 gallons to 232,000 gallons. When the federal regulations were changed requiring tanks to meet upgrade and/or replacement standards, all tanks not meeting the new standards were permanently closed. With the exception of two tanks, which were closed in place, all other tanks not meeting current standards have been removed. During the course of tank removal, soil samples were taken and contamination was discovered. The process of release investigation and confirmation begun.

The former storage area was used for a number of years (until 1998) for storing electrical transformers, powerline wire, power poles, etc. During a compliance evaluation inspection in 1998, prior to vacating the area, a number of violations were noted. As a result, the GAEPD required that a CS work plan be submitted. Sample results indicated the presence of PCBs, volatile organic compounds (VOC) and semi-volatile organic compounds (SVOC) in the soil.

The Gibson Road Landfill began operations as the installation's municipal solid waste landfill (MSWLF) in 1985. Due to the implementation of new Subtitle D requirements, the landfill stopped accepting municipal waste in 1998. The existing solid waste permit was modified at that time to allow operation of the landfill for construction and demolition debris. Through routine groundwater monitoring performed in accordance with the solid waste permit, it was discovered that groundwater leaving the site contained VOCs and metals from the municipal fill.

As a condition of RCRA Part B Permit No. HW-081(S)-2, Section III.C.1, the installation is required to conduct CS or under Section III.D.1, an RFI of the SWMUs listed as Appendix A of the permit and any other SWMUs identified subsequent to the RFA. Two Compliance Restoration (CR) sites transitioned to the IRP in FY10: CCSWMU-008 and CCSWMU015.

Three CR sites were added in FY12: CCFTGD-56, CCFTGD-57, and CCFTGD-58. An RFI will be conducted at CCFTGD-56 and CS at the other two new sites.

A new PBA was awarded in late FY14 to facilitate achieving the remaining regulatory requirements at all of the remaining CR sites except CCFTGD-008 and CCSWMU015. Soil removal actions are anticipated at CCFTGD-56 to remove lead contaminated surface and subsurface soils.

Results of the CS studies indicate that further actions will be required at CCFTGD-57 and CCFTGD-58 which would require the installation to move the sites into the RFI phase and possibly beyond.

Site CCSWMU015 is part of a new PBA through the USACE Huntsville District. The installation expects a soil removal action followed by two years of semiannual monitoring to achieve site closure.

New Gillem Enclave site CCGE-01 was added in FY15. A PA/SI is scheduled and pending award on a new PBA contract being executed through the USACE Huntsville District.

Cleanup Exit Strategy

A removal action at site CCSWMU015 is planned to address free product followed by two years of groundwater monitoring. RFI's at sites FTGD-56, -57, and -58 are planned. A removal action at site FTGD-56 is planned to address metal contamination around the former standpipe. Once the PA/SI is complete at CCGE-01, a determination will be made if an RI is necessary.

CR Previous Studies

	Title	Author	Date
2011	Solid Waste Management Unit Assessment Report (SAR), SWMU-56, Former Water Standpipe 11th Avenue, Fort Gordon	Fort Gordon	NOV-2011
	Solid Waste Management Unit Assessment Report (SAR), SWMU-57, Installation Railhead Area, Fort Gordon, Augusta, GA.	Fort Gordon	NOV-2011
2012	Solid Waste Management Unit Assessment Report (SAR), SWMU-58, Vietnam Era Track Maintenance Area, Fort Gordon, Augusta,	Fort Gordon	JUN-2012
2014	Corrective Action Plan, Part B, UST Site 15, Former Building 1380, Fort Gordon, Augusta, GA	SpecPro Environmental Services	MAY-2014

FORT GORDON
Compliance Restoration
Site Descriptions

Site ID: CCFTG-18E
Site Name: former skeet range

STATUS

Regulatory Driver: CERCLA

Phases	Start	End
PA.....	201406.....	201407
SI.....	201408.....	201512
RI/FS.....	201603.....	201908

RIP Date: N/A

RC Date: 201910

SITE DESCRIPTION

This is the site of the original Fort Gillem skeet range. It was discovered during a review of aerial photos in 2012. A contract was awarded and a PA/SI was initiated in 2015 to determine if any evidence remained from the past activities. Pentaerythritol Tetranitrate (PETN) was detected in groundwater. Temporary monitoring well FTG18E-SB-01 had a detection of 82 ppb where the EPA Tap water RSL for PETN is 15ppb. Based on evidence gained during the PA/SI phase the GAEPD will recommend an RI to delineate nature and extent

CLEANUP/EXIT STRATEGY

RI will be completed. Future action will be determined based on RI results.

Site ID: CCFTGD-56
Site Name: Water Standpipe

STATUS

Regulatory Driver: RCRA
Contaminants of Concern: Metals
Media of Concern: Soil

Phases	Start	End
RFA.....	201110.....	201110
CS.....	201112.....	201201
RFI/CMS.....	201403.....	202006
RIP Date:	N/A	
RC Date:	202007	

SITE DESCRIPTION

Solid Waste Management Unit 56 (SWMU-56) is a 2.5 million gallon water standpipe used to store drinking water for the installation. The standpipe was constructed in 1941 and is currently being taken offline and replaced with a new 1 million gallon water tank. The standpipe is located on the south side of 12th Avenue near Gate 3.

As part of the construction project to build the new tank, demolition of the old tank was included in the scope of work. Prior to demolition of the standpipe, soil sampling around the structure was completed to confirm and characterize lead levels in the soil to establish a baseline concentration.

The initial sampling event took place on Sept. 20, 2011; 16 sampling locations were evenly spaced around the standpipes concrete pad. Samples were taken down to 1 foot and on the surface. Upon receipt of these results, FTGD was made aware of extensive lead contamination in the surface soils that ranged in concentrations from 31 parts per million (ppm) to 29,900 ppm with an average across the site at 4,069 ppm.

FTGD then notified the GAEPD of a release and submitted a SWMU Assessment Report (SAR) as required by their Part B Permit. Notification was given on Oct. 14, 2011 and the SAR was submitted on Dec. 12, 2011. Upon notification of the release, the GAEPD stated that the site would be added to our Part B Permit and requested that an RFI be completed based on the initial soil sampling results.

In June 2014, a new performance based contract was awarded to PIKA-ARCADIS with the tasks of completing an RFI and achieving RIP/RC. The initial round of sampling in the RFI phase was completed in May 2015. Based on those results additional sampling is necessary to complete delineation of the site. The Army has proposed completing an interim measures (IM) action to excavate the soil surrounding the former standpipe which is contaminated with lead and chromium above both residential and industrial standards. The GAEPD has approved this path forward and the IM report work plan is being prepared for approval.

CLEANUP/EXIT STRATEGY

An RFI, CMS, and CAP will be completed followed by soil excavation. Soil removal will be necessary to achieve site closure.

Site ID: CCFTGD-57

Site Name: Installation Railhead Area

STATUS

Regulatory Driver: RCRA

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

Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200902.....	201010
CS.....	201403.....	201606
RFI/CMS.....	201607.....	201907

RIP Date: N/A

RC Date: 201912

SITE DESCRIPTION

In conjunction with the USGS, FTGD assessed soil, soil gas, surface water, and groundwater for the presence of contaminants at the Installation Railhead Area from October 2008 to September 2009. Elevated soil-gas concentrations of TPH, BTEX were detected in localized areas of the Installation Railhead Area. Elevated soil gas concentrations of PCE and detections in groundwater were also discovered at the western edge of the Installation Railhead Area. PCE was detected in two of three groundwater monitoring wells installed as part of the project with the highest concentration reaching 3.5 ppb. Detections of carbon disulfide, TCE, and cis-1,2-dichloroethene were also present in the wells.

The Installation Railhead Area consists of a railyard, warehouses, and various support infrastructures with an extent of roughly 20 acres. It was mainly used from the 1940s to the 1970s to support installation activities. Since then, the Installation Railhead Area has been modified extensively to accommodate changes in the Army's operations at FTGD over time.

The effect of past activities on environmental resources across the majority of the Installation Railhead Area site is currently unknown; however, based upon limited evidence from the USGS study, further investigation is needed. Also, due to the proximity of the groundwater monitoring wells that tested positive for PCE and TCE to the installation boundary and the former dry cleaning facility which is located adjacent to the railhead, further delineation of the contaminants is recommended.

In June 2014 a new performance based contract was awarded to PIKA-ARCADIS with the tasks of completing a CS study, an RFI and achieving RIP/RC. The final CS study was submitted to the GAEPD in December 2015 and based on those results the GAEPD recommend that an RFI be completed to determine nature and extent of metals and VOC's in groundwater.

CLEANUP/EXIT STRATEGY

Pending results of the RFI, additional work may be necessary to achieve site closure.

Site ID: CCFTGD-58
Site Name: Vietnam Armor Training Area

STATUS

Regulatory Driver: RCRA
Contaminants of Concern: Petroleum, Oil and Lubricants (POL), Semi-volatiles (SVOC)
Media of Concern: Groundwater, Soil

Phases	Start	End
RFA.....	200902.....	201012
CS.....	201403.....	201606
RFI/CMS.....	201607.....	201909
RIP Date:	N/A	
RC Date:	201910	

SITE DESCRIPTION

In conjunction with the USGS, FTGD assessed soil, soil gas, and groundwater for the presence of contaminants at the Vietnam Armor Training Facility (VATF) from October 2009 to September 2010. In addition to soil gas sampling across the site, passive groundwater sampling was performed at four existing monitoring wells at the site. Each well indicated the presence of benzene, octane, decane and TPH. Concentrations in groundwater ranged from 700 ppb to 4,400 ppb for TPH and 25 ppb to 37 ppb for benzene.

The site is currently being used as the FTGD Fish and Wildlife Program Storage yard. The site includes several buildings, a parking area, and a washrack with built-in drainage. An initial investigation at the site was warranted because little historical information about the past activities and use at the site was available. Aerial photos indicated a robust training facility during the Vietnam era. Additionally, the site is located in the outcrop area for the Cretaceous-age aquifer system which is used for drinking water further downgradient. There is also a potable water well adjacent to the site, in close proximity to the contaminated monitoring wells, which the natural resources branch still uses for various projects across the installation.

A new performance based contract was awarded in June 2014 to PIKA-ARCADIS with the tasks of completing a CS study and an RFI. The final CS study was submitted to the GAEPD in December 2015 for approval. Based on the results in the CS study, the GAEPD has recommended that an RFI be completed to determine nature and extent of VOCs in groundwater. An RFI work plan is pending submission.

CLEANUP/EXIT STRATEGY

Pending results of the RFI, additional work may be needed to achieve site closure.

Site ID: CCGE-01
Site Name: Groundwater site

STATUS

Regulatory Driver: CERCLA

Phases	Start	End
PA.....	201505.....	201508
SI.....	201509.....	201612

RIP Date: N/A

RC Date: 201912

SITE DESCRIPTION

During the course of RI phase groundwater investigations at site FTG-13 (former waste water treatment plant circa 1951-1978), a potential new upgradient site to the east of FTG-13 was discovered. Roughly 900 feet upgradient a new source of TCE was discovered which appears to be the source of contamination at FTG-13, and migrates off-post into a residential neighborhood. Historic aerials indicate the area of concern was used to stage equipment during the 1950's and five trenches show up in the 1960 aerials that indicate a potential disposal area. Today, within those trenches, there is visible debris and crushed drums on the surface.

CLEANUP/EXIT STRATEGY

SI is underway to determine future strategy.

Site ID: CCSWMU-008
Site Name: UST SITE 8 (#49300-1210079)

STATUS

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

Phases	Start	End
ISC.....	199202.....	199301
INV.....	199302.....	199308
CAP.....	199405.....	201009
IMP(C).....	201001.....	201310
IMP(O).....	201110.....	201707
RIP Date:	201310	
RC Date:	201708	

SITE DESCRIPTION

The Army and Air Force Exchange Service (AAFES) Gate 5 Gas Station/Shoppette was constructed in 1976 and has been in operation since 1977. During the original construction, three 10,000-gallon USTs were installed for the storage of regular, unleaded, and premium gasoline. In 1987, leak tests were conducted by Central States Bridge Co, Inc. and results indicated that all three tanks were leaking; however, monthly loss reports did not support the results. During 1991, soil samples taken from depths of one to 20 feet showed petroleum contaminants were present in the soil. In 1992, three borings and three monitoring wells were installed. Soil samples were found to be free of contaminants, but samples from all three wells contained dissolved benzene in excess of regulatory levels and one sample contained excessive lead and toluene. The USTs were removed in August 1992 by Anderson Columbia and approximately 180 cubic yards of contaminated soil was removed. Sampling from the tank excavation area showed contaminants to be present, particularly TPH. Expanded site characterization conducted in 1994 by Ebasco Environmental Inc. showed soil and groundwater contamination. A CAP was prepared in May 1994 and submitted to GAEPD. A technical review of the CAP was done and additional work was required as well as a CAP addendum. During a road construction project, groundwater monitoring wells for this site were destroyed which necessitated plugging and abandoning the wells and installation of new wells.

In June 2005, four damaged wells were permanently closed and five new groundwater monitoring wells were installed and sampled. Two wells were installed in the former UST cavity area and three were perimeter wells. Contamination levels from sampling indicated benzene at 4,600 ppm, xylene at 1,700 ppm, ethylbenzene at 561 ppm and methyl tertiary butyl ether (MTBE) at 2,189 ppm. Soil contamination still exists.

Additional monitoring wells have been installed. In November 2009, an addendum to the GAEPD UST program CAP Part A (CAP-A) was submitted to GAEPD. Comments received from GAEPD in January 2010 required that seven additional monitoring wells be installed. Based on the results of the CAP-A, a CAP-B monitoring only plan was requested and approved by GAEPD requiring two years of semiannual groundwater monitoring to achieve site closure.

During this time, contracting was delayed and two groundwater monitoring wells were damaged and subsequently replaced, which delayed the final year of monitoring and achieving site closure.

CLEANUP/EXIT STRATEGY

One additional year of monitoring in FY17 should complete the remaining monitoring requirements to achieve site closure.

Site ID: CCSWMU015

Site Name: UST SITE 15 (#1380 - 9121067)

STATUS

Regulatory Driver: RCRA

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

Media of Concern: Groundwater

Phases	Start	End
ISC.....	199206.....	199210
INV.....	199302.....	199305
CAP.....	199309.....	200901
IRA.....	200404.....	200503
IMP(C).....	200709.....	200909
IMP(O).....	200909.....	201809
LTM.....	201909.....	201910

RIP Date: 200909

RC Date: 201809

SITE DESCRIPTION

This site has been the location of the Troop Motor Pool (TMP) since the early-1970s. GSA was also located in the vicinity for a period of time. One 1,000-gallon diesel tank and one 900-gallon gasoline tank were located within this site for fueling military vehicles. The diesel tank was removed in 1992 and the gasoline tank was removed in 1991. Soil and groundwater contamination exists as well as free-product.

This site is the location of the TMP and is approximately 350 feet by 250 feet. There were originally two USTs, one diesel and one gasoline. Tank integrity tests discovered that the tanks were leaking. The tanks were subsequently taken out of service and later removed in 1991 and 1992. Free-product is present and requires corrective action. Currently, socks are being used to absorb free-product. A complete round of groundwater samples will be taken to evaluate the extent of dissolved-phase contamination and the adequacy of the existing groundwater well system. New monitoring wells will likely have to be installed, developed and sampled and a CAP-B prepared and submitted to the GAEPD. Sampling parameters, number of samples and remediation method were compiled by comparison to historical UST work performed at FTGD and UST Management (GAEPD) Rule 391-3-15.

A new performance based contract was awarded to the URS group in September 2014 to complete the remaining tasks to achieve site closure. Those tasks include a soil excavation to remove fuel contaminated soil and two years of groundwater monitoring to ensure remedial objectives are achieved. A revised CAP-B was submitted to the GAEPD UST Division and approved in October 2015. The removal action is planned for summer 2016.

CLEANUP/EXIT STRATEGY

Complete soil removal, two years of semiannual groundwater monitoring, and well abandonment to achieve site closure.

Site Closeout (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
CCSWMU-53	UST SITE 53 (#34300-1210078)	201009	201009 NFA letter received from GAEPD UST Division on Apr. 18, 2010.

CR Schedule

Date of CR Inception: 199202

Past Phase Completion Milestones

1993

ISC (CCSWMU-008 - UST SITE 8 (#49300-1210079), CCSWMU015 - UST SITE 15 (#1380 - 9121067))

INV (CCSWMU-008 - UST SITE 8 (#49300-1210079), CCSWMU015 - UST SITE 15 (#1380 - 9121067))

1996

ISC (CCSWMU-53 - UST SITE 53 (#34300-1210078))

2005

IRA (CCSWMU015 - UST SITE 15 (#1380 - 9121067))

2009

CAP (CCSWMU015 - UST SITE 15 (#1380 - 9121067))

IMP(C) (CCSWMU015 - UST SITE 15 (#1380 - 9121067))

INV (CCSWMU-53 - UST SITE 53 (#34300-1210078))

2010

CAP (CCSWMU-008 - UST SITE 8 (#49300-1210079), CCSWMU-53 - UST SITE 53 (#34300-1210078))

2011

RFA (CCFTGD-57 - Installation Railhead Area, CCFTGD-58 - Vietnam Armor Training Area)

2012

RFA (CCFTGD-56 - Water Standpipe)

CS (CCFTGD-56 - Water Standpipe)

2014

IMP(C) (CCSWMU-008 - UST SITE 8 (#49300-1210079))

PA (CCFTG-18E - former skeet range)

2015

PA (CCGE-01 - Groundwater site)

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
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Final RA(C) Completion Date: 201310

Schedule for Next Five-Year Review: N/A

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

FORT GORDON CR Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CCFTG-18E	former skeet range	RI/FS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CCFTGD-56	Water Standpipe	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CCFTGD-57	Installation Railhead Area	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CCFTGD-58	Vietnam Armor Training Area	RFI/CMS						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CCGE-01	Groundwater site	SI						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CCSWMU-008	UST SITE 8 (#49300-1210079)	IMP(O)						
SITE ID	SITE NAME	PHASE	FY17	FY18	FY19	FY20	FY21	FY22+
CCSWMU015	UST SITE 15 (#1380 - 9121067)	IMP(O)						
		LTM						

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): 200409

Restoration Advisory Board (RAB): No

Reason Not Established: Installation is in the process of determining interest in establishing a RAB.

Additional Community Involvement Information

RAB solicitation will take place at both Fort Gordon and the Gillem Enclave in FY15.

The installation maintains two separate community involvement plans (CIP), administrative records and information repositories for the two facilities (Fort Gordon/Gillem Enclave).

Administrative Record is located at

US Army Garrison, Environmental Division, Bldg. 14600
Fort Gordon, GA 30905;
(706) 791-6129 or x 2511

Information Repository is located at

The Augusta-Richmond County Library
823 Telfair St.
Augusta, GA 30901
(706) 821-2600

Forest Park Library
4812 West St.
Forest Park, GA. 30297
(770) 347-0160

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

TAPP Title: N/A

Potential TAPP: TBD

