



# Fort George G. Meade

## Installation Action Plan Summary of Pre-NPL Activities

Restoration Advisory Board Meeting  
May 15, 2014



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# Installation Action Plan



- Document available online at <http://www.ftmeade.army.mil/environment/>
- Select 'Clean-Up Program' tab
- Link for '2013 Installation Action Plan' listed at bottom of page





# Installation Action Plan



## Statement of Purpose

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

In an effort to coordinate planning information between the restoration manager, the US Army Environmental Command (USAEC), Fort George G. Meade (FGGM), the executing agencies, regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules and tentative budgets for all major Army installation cleanup programs.

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





# Installation Action Plan



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## Cleanup Program Summary

### Installation Historic Activity

FGGM was originally authorized by Congress in 1917 as one of 16 training cantonments to be built for troops drafted during World War I (WWI). In 1928 it became a permanent military reservation. During WWI, more than 100,000 troops were trained at the installation. From 1940 to 1946, World War II (WWII) brought 3.5 million men and women to FGGM for training, in different phases. At various times since 1946 FGGM has been involved in the mission of training troops.

Subsequent to the Resource Conservation and Recovery Act (RCRA) Hazardous and Solid Waste Amendments of 1984, FGGM applied for a Part B Permit. In 1987, in accordance with RCRA provisions, FGGM began investigating its potential solid waste management units (SWMU). At the same time, a site investigation began at the active sanitary landfill to determine what, if any, impacts the landfill had on local groundwater.

In 1988 Public Law 100-526, the Base Realignment and Closure Act (BRAC), identified FGGM for realignment as an administrative installation, and recommended excessing approximately 9,000 acres used for training. Since that time, in an effort to keep the surrounding community abreast of restoration activities, FGGM has successfully and actively participated in developing a RAB.

As a result of the BRAC, the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), and RCRA statutes, FGGM has RAs ongoing in the base closure account and Environmental Restoration, Army (ER,A) account. In 1989 the installation was placed on the Federal Agency Hazardous Waste Compliance Docket, after issuance of the Part B Permit. As of July 28, 1998, FGGM was added to the National Priorities List (NPL). This listing was based on an April 1, 1997 proposal by the USEPA.





# Installation Action Plan



## IRP Contamination Assessment

### Contamination Assessment Overview

In 1980 the United States Army Toxic and Hazardous Material Agency (USATHAMA; now USAEC) completed its initial installation assessment for Fort Meade. This assessment identified the need for a SI for the active sanitary landfill. NFA was taken until 1987, when USATHAMA updated the 1980 assessment to verify conditions at Fort Meade, and determine the next steps to be taken. In 1988, USATHAMA began a PA of the active sanitary landfill. In FY94, ER,A funds were obtained to complete the cap on Cell No. 1 of the landfill and Operation and Maintenance Army (OMA) funds for the liner of active Cell No. 2. All restoration work to date, besides the landfill, was done with OMA funds. Contaminants found in the landfill area include heavy metals, chlorinated solvents, and non-chlorinated solvents.

As of July 28, 1998 Fort Meade was added to the NPL. This listing was based on an April 1, 1997 proposal by the USEPA. In October 2009, a Federal Facilities Agreement (FFA) went into effect. The FFA was signed by the Army, Environmental Protection Agency, Department of Interior, and the Architect of the Capitol.





## IRP Previous Studies

	Title	Author	Date
1977	Environmental Impact Statement - Existing Activities and Conditions		JUN-1977
1979	Landfill Study		JUN-1979
1980	Final - Installation Assessment of FGGM		NOV-1980
1981	Final - Overall Environmental Impact Statement		AUG-1981
1987	Final - Update of the Initial Installation Assessment of FGGM and Gaithersburg Research Facility		DEC-1987
1989	Final - Site Safety & Health Plan for Remedial Investigation at FGGM Landfill and Preliminary Assessment/Site Investigation at the Former Gaithersburg Nike Control and Launch Areas		MAR-1989
1990	Draft - Task Order 2 Preliminary Assessment for Fort Holabird		DEC-1989
	USATHAMA Task Order 2 Enhanced Preliminary Assessment Fort Holabird Crime Records Center		JAN-1990
	Preliminary Draft - Environmental Assessment - Base Closure at Gaithersburg, MD		FEB-1990
	Technical and Sampling/Analysis Plan, U.S. Army Toxic and Hazardous Material Agency	EA Engineering	FEB-1990
	Site Safety and Health Plan for Remedial Investigation/Feasibility Studies at FGGM Landfill and Preliminary Assessment/Site Investigation at Former Gaithersburg Nike Control and Launch areas		MAR-1990
	Draft - USATHAMA - Appendices for FGGM Active Sanitary Landfill and Clean Fill Dump Remedial Investigation Report		APR-1990
	Final - Gaithersburg Research Facility Control Area Site Investigation - Accident Prevention Safety Plan		MAY-1990
	USATHAMA - Appendices for FGGM Active Sanitary Landfill and Clean Fill Dump Remedial Investigation Report		AUG-1990
	Final - Public Involvement and Response Plan		SEP-1990
	Preliminary Assessment Report FGGM - Hazardous Substances Identification and Storage and Potential Receptors for Groundwater, Surface Water and Onsite Pathways		NOV-1990
	Preliminary Assessment Report, US Army Toxic and Hazardous Material Agency	Roy F. Weston, Inc.	NOV-1990
	Draft Final Document - USATHMA Technical Report for Proposed Ordnance Clearance at FGGM		DEC-1990
	Draft Final - Gaithersburg Appendices Final Project Report		DEC-1990



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# IRP Previous Studies



1991

Title	Author	Date
Final - Remedial Investigations/Feasibility Studies for Proposed Ordnance Clearing at FGGM		MAR-1991
Draft Final Document - USATHAMA Ordnance Clearance Survey		MAR-1991
Final - Gaithersburg Research Facility Central Area Site Inspection		MAR-1991
Draft - Comprehensive Base Realignment and Partial Closure for FGGM & Fort Holabird		MAR-1991
Final - Gaithersburg Project Report Appendices		MAR-1991
Volatile Analysis - Fort Meade Laundry Analytical Data Package		AUG-1991
Environmental Investigation for Property Transfer - Fort Holabird Crime Records Center Environmental Investigation and Alternatives Assessment		SEP-1991
Draft - Addendum Site Health and Safety Plan Ordnance Clearance Survey		NOV-1991
Review of Draft Work Plan for Ordnance Survey of 1,400 Acres - Department of Interior Parcel		DEC-1991
Post Laundry Facility Contaminant Assessment Report		DEC-1991
Post Laundry Facility Contaminant Assessment Report	Versar	DEC-1991

1992

Final - Preliminary Assessment Report Addendum for FGGM		MAR-1992
Preliminary Assessment Report Addendum, US Army Toxic and Hazardous Material Agency	Roy F. Weston, Inc	MAR-1992
Final Environmental Investigation Report for Fort Holabird Crime Records Center		MAR-1992
Work Plan for Unexploded Ordnance Clearance Survey at FGGM		APR-1992
Accident Prevention and Safety Plan - FGGM Ordnance Clearance Survey		APR-1992
Site Health and Safety Plan - FGGM Ordnance Clearance Survey		JUN-1992
Work Plan - FGGM Ordnance Clearance Survey		JUN-1992
Draft Report for Asbestos Investigation and Estimation of Fort Holabird Crime Records Center (CRC)		SEP-1992
Site Inspection, Volumes I - III - Ordnance Demolition Area, Clean Fill Dump, Fire Training Area, Inactive Landfill No. 1, Inactive Landfill No. 2, Inactive Landfill No. 3, DPDO Salvage Yard, US Arm	EA Engineering	OCT-1992
Asbestos Investigation and Estimation of Fort Holabird Crime Records Center		OCT-1992
Remedial Investigation Report and Appendices - Active Sanitary Landfill and Clean Fill Dump, U.S. Army Toxic and Hazardous Material Agency	EA Engineering, Science and Technology, Inc.	DEC-1992

1993

Work Plan Feasibility Study and Remedial Investigation/Site Inspection RI/SI Addendum - Inactive Landfill No. 2, DPDO Salvage Yard and Transformer Storage, Helicopter Hangar Area, Fire Training Area	USAEC, Arthur D. Little	NOV-1993
Quality Control Plan Feasibility Study and Remedial Investigation/Site Inspection RI/SI Addendum	USAEC, Arthur D. Little	NOV-1993





# IRP Previous Studies



1993

Title	Author	Date
Health and Safety Plan, Feasibility Study and Remedial Investigation/Site Inspection Addendum - Inactive Landfill No. 2, DPDO Salvage Yard and Transformer Storage, Helicopter Hangar Area, Fire Train	USAEC, Arthur D. Little	NOV-1993
Health & Safety Plan - DRMO	USAEC, Arthur D. Little	NOV-1993
Work Plan, Feasibility Study and Remedial Investigation/Site Inspection Addendum	USAEC, Arthur D. Little	NOV-1993
Quality Control Plan Feasibility Study and Remedial Investigation/Site Inspection RI/SI Addendum,	USAEC, Arthur D. Little	NOV-1993

1994

Architect of Capitol - Initial Phase I Report, Site Assessment of 100-Acre Parcel	Rummel, Klipper & Kahl	MAY-1994
Ordnance Survey Report, 1400 Acre Parcel - 500-acre Dept. of Interior Parcel, Tipton Army Airfield Parcel, Active Sanitary Landfill Parcel, USAEC	International Technology Corp.	JUN-1994
Cell 2 Modifications - Active Sanitary Landfill		AUG-1994
Initiation of Detection Monitoring Program - Active Sanitary Landfill, U.S. Army Center for Health Promotion and Preventive Medicine		SEP-1994
Feasibility Study Report - Active Sanitary Landfill	USAEC, Arthur D. Little	SEP-1994
Residential Wells Data - Active Sanitary Landfill	USAEC, Arthur D. Little	OCT-1994
DRMO - Final Quality Control Plan Remedial Investigation/Feasibility Study	USAEC, Engineering Technologies Associates, Inc.	DEC-1994

1995

DRMO - Quality Control Plan Remedial Investigation and Feasibility Study of the Defense Property Disposal Office	USAEC, Engineering Technologies Associates, Inc.	MAY-1995
DRMO - Technical Work Plan Remedial Investigation/Feasibility Study	USAEC, Engineering Technologies Associates, Inc.	MAY-1995
Post Laundry Facility - Safety & Health Program Site Specific Safety and Health Plan, Subsurface Investigation	Versar, Inc.	JUN-1995
DPDO Sample Analysis Report - GP Work Order #9508083	Baltimore District Corps of Engineers	AUG-1995
Post Laundry Facility Additional Subsurface Investigation Activities MDE Case # C-0094-132		SEP-1995
DPDO Semi-volatile Package	Baltimore District Corps of Engineers	SEP-1995
DRMO - Semi-volatile Package	GP Environmental Services, Inc	SEP-1995
DPDO Metals Package	Baltimore District Corps of Engineers	SEP-1995
Metals Package Metals Case Narrative	GP Environmental Services, Inc.	SEP-1995
DPDO Sample Analysis Report - GP Work Order #9509008	Baltimore District Corps of Engineers	SEP-1995
Post Laundry Facility - Additional Subsurface Investigation Activities	Versar, Inc.	SEP-1995
DPDO Sample Analysis Report - GP Work Order #9508058	Baltimore District Corps of Engineers	OCT-1995





## IRP Previous Studies

1998	Title	Author	Date
	Comment-Response Package for Off-Post Drilling Report - Active Sanitary Landfill	USAEC, Arthur D. Little	MAR-1998
	DRMO - Summary Report, Drilling & Testing Activities, Phase II Groundwater Investigation	USACE, Dames & Moore	APR-1998
	Post Laundry Facility Comprehensive Site Assessment	Versar	JUN-1998
	1998 Active Sanitary Landfill Semi-Annual Detection & Assessment Monitoring Report	CH2M Hill	OCT-1998
	Industrial Corridor Risk Assessment	Versar	DEC-1998

- Fort Meade added to National Priorities List July 28, 1998
- Listing based on 1997 proposal by EPA



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Date of IRP Inception: 198011

## Past Phase Completion Milestones

### 1982

PA (FGGM 03 - WATER TREATMENT PLT. BLDG 8688, FGGM 14 - HAZARDOUS WASTE STORAGE (former), FGGM 19 - ADV. WASTEWATER TREATMENT FACILITY)

### 1990

SI (FGGM 47 - POST LAUNDRY (OPERABLE UNIT 4))

PA (FGGM 47 - POST LAUNDRY (OPERABLE UNIT 4))

### 1992

RFI/CMS (FGGM 05 - TROOP BOILER PLT (OPERABLE UNIT 2))

CS (FGGM 05 - TROOP BOILER PLT (OPERABLE UNIT 2))

RFA (FGGM 05 - TROOP BOILER PLT (OPERABLE UNIT 2))

### 1993

PA (FGGM 17 - CLOSED SANITARY Landfill, FGGM 33 - BATTERY SHOP BLDG. 2283)

SI (FGGM 17 - CLOSED SANITARY Landfill)

DES (FGGM 05 - TROOP BOILER PLT (OPERABLE UNIT 2))

### 1994

SI (FGGM 07 - DRMO DRUM SITE (OPERABLE UNIT 5))

IRA (FGGM 03 - WATER TREATMENT PLT. BLDG 8688, FGGM 33 - BATTERY SHOP BLDG. 2283)

PA (FGGM 07 - DRMO DRUM SITE (OPERABLE UNIT 5))

### 1996

SI (FGGM 49 - DOL BUILDINGS 2286, 2246, FGGM 74 - ARCHITECT OF THE CAPITOL)

CMII(C) (FGGM 05 - TROOP BOILER PLT (OPERABLE UNIT 2))

PA (FGGM 08 - COMP AMMO SUPPLY POINT #1, FGGM 36 - PHOTO LAB'S BLDG 4553, 6530, FGGM 37 - KIMBROUGH ARMY HOSPITAL, FGGM 45 - CALIBRATION LAB BUILDING 2220, FGGM 49 - DOL BUILDINGS 2286, 2246, FGGM 51 - BUILDING 2217, FGGM 70 - BLDG 6513 INDOOR RANGE, FGGM 71 - BLDG 6512 EX INDR RNG, FGGM 74 - ARCHITECT OF THE CAPITOL)

### 1997

PA (FGGM 11 - GAS TRAINING BUILDING (former), FGGM 13 - PEST. SHOP BLDG. 6621)

IRA (FGGM 07 - DRMO DRUM SITE (OPERABLE UNIT 5))

SI (FGGM 13 - PEST. SHOP BLDG. 6621, FGGM 51 - BUILDING 2217)

RFA (FGGM 78 - GRANITE NIKE)

### 1998

PA (FGGM 75 - USTS PRIOR TO 1984)



# Actions prior to NPL (pre-1998)



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

Site ID	Site Name	Action	Remedy	FY
FGGM 03	WATER TREATMENT PLT. BLDG 8688	IRA	OTHER	1994
FGGM 33	BATTERY SHOP BLDG. 2283	IRA	WASTE REMOVAL - SOILS	1994
FGGM 07	DRMO DRUM SITE (OPERABLE UNIT 5)	IRA	WASTE REMOVAL - SOILS	1995
FGGM 05	TROOP BOILER PLT (OPERABLE UNIT 2)	FRA	GROUND WATER TREATMENT	1996
FGGM 07	DRMO DRUM SITE (OPERABLE UNIT 5)	IRA	OTHER	1997

## Community Involvement

**Restoration Advisory Board (RAB):** RAB established 199504

**RAB Adjournment Date:** N/A

**RAB Adjournment Reason:** None

### Additional Community Involvement Information

Fort Meade has an active RAB which was established in 1995 and currently has 12 community members who meet every two months.



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