

PHOENIX MILITARY RESERVATION

Army Cleanup Program

Installation Action Plan Final

June 2024

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STATEMENT OF PURPOSE

The Installation Action Plan (IAP) provides evidence that the Army is firmly committed to expeditious identification and cleanup of environmental contamination, and that the installation has a credible, organized program to carry out that commitment. The IAP provides an outline of the total multi-year environmental cleanup program for each site with ongoing or future planned restoration activity and includes the (1) environmental restoration requirements, (2) the rationale for the selected technical approach, and (3) foundation to develop corresponding financial needs for each cleanup site.

INSTALLATION OVERVIEW

Installation Name: PHOENIX MILITARY RESERVATION

Installation City: FORT MEADE

Installation County: BALTIMORE COUNTY

Installation State: MD

Regulatory Participation - Federal: N/A

Regulatory Participation - State: Maryland Department of Environment (MDE)

ACRONYMS

Acronym	Definition
CC	Compliance-related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CRL	Cleanup Restoration & Liabilities
DGR	Direct Groundwater Recirculation
ENV	Environmental
FCA	Fire Control Area
FS	Feasibility Study
FYR	Five-Year Review
HRS	Hazard Ranking Score
IAP	Installation Action Plan
ID	Identification
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
MD	Maryland
MDE	Maryland Department of Environment
MR	Munitions Response
MRSP	Munitions Response Site Prioritization Protocol
NPL	National Priorities List
PA	Preliminary Assessment
PMR	Phoenix Military Reservation
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-in-Place
RRSE	Relative Risk Site Evaluation
SC	Site Closeout
SI	Site Inspection
TAPP	Technical Assistance for Public Participation
TBD	To Be Determined
TCE	Trichloroethene
UU/UE	Unlimited Use / Unrestricted Exposure

PHASE TRANSLATION TABLE

CERCLA Phase	RCRA Phase	RCRA UST Phase
Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
Remedial Design (RD)	Design (DES)	Design (DES)
Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
Remedial Action (Operations) (RA(O))	Corrective Measures Implementation (Operations) (CMI(O))	Implementation (Operations) (IMP(O))
Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

PROGRAM SUMMARY

Number of Open Sites with Response Complete/Total Open IR Sites: 0/1

Number of Open Sites with Response Complete/Total Open MR Sites: 0/0

Number of Open Sites with Response Complete/Total Open CC Sites: 0/0

SITE-LEVEL INFORMATION

1225A.1001_PMR-001_FORMER SEPTIC SYSTEM

Env Site ID: PMR-001

Cleanup Site: FORMER SEPTIC SYSTEM

Alias: PMR-001

Regulatory Driver: CERCLA

RIP Date: 6/15/2014

RC Date: 9/30/2054

RC Reason: Not assigned

SC Date: 9/30/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	6/30/1982	1/31/1985
SI:	6/30/1982	1/31/1985
RI/FS:	7/31/2003	11/15/2013
RD:	1/31/2009	1/15/2014
IRA:	4/30/1993	7/31/1993
RA(C):	3/15/2013	1/15/2014
RA(O):	6/15/2014	9/30/2054
LTM:	--	--

Site Narrative: The Phoenix Military Reservation (PMR) is a former Nike Missile Battery; Fire Control Area (Site) located approximately one-half mile west of Jacksonville, Maryland in northeastern Baltimore County. The site previously contained electronic equipment for target tracking, missile guidance, and fire control. Support structures included barracks, an administration building, a mess hall, water supply pump houses, a paint storage shed, motor pool, generator building, the corridor building (in which fire control was conducted), and a number of radar towers. The site is currently vacant; all structures were demolished and removed. The site has undergone numerous investigations over the past 25 years. During these investigations, a volatile organic compound, trichloroethene (TCE), was observed in the groundwater at the site and extending off-site to the north and south. The results of previous investigations show no apparent source areas remain. Based on results of the 2008 draft final remedial investigation (RI) report, supplemental investigations were conducted to better characterize groundwater quality in the vicinity of site. The investigations included the installation of a deep well on-site, groundwater gauging/sampling from on-site monitoring wells and adjacent potable wells. The off-site receptor risk is the potential future use of groundwater for drinking purposes. Drinking water samples were tested from downgradient homes and no analytes were detected or were detected below federal drinking water standards. All other current potential pathways and receptors have either been addressed or have no complete exposure pathways. Based on the contaminant type, its known distribution, flow directions and potential risk to off-site receptors, the final RI report and associated technical documents have determined that unacceptable risks are present under certain site reuse scenarios. A decision document was approved by the state in September 2013. The selected remedy is direct groundwater recirculation (DGR), monitored natural attenuation, five-year reviews, and land use controls, which will continue until remedial goals are met. Suspension of the DGR system operations were approved by the Maryland Department of Environment (MDE) on June 21, 2019. Remedial action (operations) (RA(O)) will be performed to ensure the proper operation of the remedy. Because hazardous substances, pollutants,

or contaminants will remain at the site at concentrations exceeding levels that allow for unlimited use/unrestricted exposure (UU/UE), five-year remedy reviews will continue until UU/UE is achieved.

SITE SUMMARY

SITE CLOSEOUT SUMMARY

CRL ID	Site Name	Site Closeout Date
1225A.1002	PMR-002_UNDERGROUND STORAGE TANK	7/31/1993
1225A.1003	PMR-003_VEHICLE MAINTENANCE SHOP	4/30/1987
1225A.1004	PMR-004_GENERATOR BUILDING	4/30/1987

COMMUNITY INVOLVEMENT

Community Involvement Plan (Date Last Reviewed):	3/21/2012
Technical Review Committee Establishment Date:	N/A
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Reasons for Not Establishing RAB:	TRC Operating (no RAB by choice)
RAB Date of Solicitation from Community:	N/A
RAB Results of Solicitation:	N/A
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A
Administrative Record Location:	Fort Meade Environmental Division, 4216 Roberts Avenue, Fort Meade, Maryland 20755
Information Repository Location:	Fort Meade Environmental Division, 4216 Roberts Avenue, Fort Meade, Maryland 20755, and Cockeysville Branch--Baltimore County Public Library, 9833 Greenside Drive, Cockeysville, MD 21030, 410.887.7750

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Status	Review Type	Start Date	End Date	Plans Narrative	Actions Narrative	Results Narrative
Planned	FYR	10/1/2025	9/30/2026	TBD	TBD	TBD
Completed	FYR	9/30/2020	12/20/2021	N/A	It is recommended that groundwater concentrations closer to the residence downgradient of Fire Control Area (FCA)-1 are assessed, in order to ensure that vapor intrusion does not pose an unacceptable risk as TCE concentrations continue to rebound after the DGR was turned off.	The remedy at PMR-001 is protective of human health and the environment. The DGR system operations were suspended in 2019 following reductions of TCE in groundwater.