

INSTALLATION ACTION PLAN
for
BLUE GRASS ARMY DEPOT



Fiscal Year 2001

Installation Action Plan 2001



BLUE GRASS ARMY DEPOT

**INSTALLATION
ACTION PLAN
2001**

**BLUE GRASS ARMY DEPOT
RICHMOND, KENTUCKY**

STATEMENT OF PURPOSE

The purpose of this Installation Action Plan (IAP) is to outline the total multi-year Installation Restoration Program (IRP) for an installation. The plan will define all IRP requirements and propose a comprehensive approach and associated costs to conduct future investigations and remedial actions at each IRP site at the installation.

In an effort to document planning information for the IRP manager, major army commands (MACOMs), installations, executing agencies, regulatory agencies, and the public, an IAP has been completed for Blue Grass Army Depot (BGAD). The IAP is used to track requirements, schedules, and tentative budgets for all major Army installation restoration programs.

All site specific funding and schedule information has been prepared according to projected overall Army funding levels and is therefore subject to change. Under current project funding, all remedial actions will be in place at BGAD by the end of 2001. Long term monitoring, long term maintenance, operations and remedial action operations will be conducted as long as necessary.

CONTRIBUTORS TO THE INSTALLATION ACTION PLAN

Ahmad (Eddie) Allameh	Kentucky Department of Environmental Protection - Risk Assessment Branch
Jim Beaujon	US Army Corps of Engineers, Nashville District
Dr. David Brancato	US Army Corps of Engineers, Louisville District
Dale Burton	Kentucky Department of Environmental Protection - Division of Waste Management
Kathy Hayes	IAP Support
Linda Ingram	US Army Corps of Engineers, Nashville District
Kevin Jefferson	US Army COE, Louisville District
Chris Karem	US Army Corps of Engineers, Louisville District
Jeri Martin	Kentucky Department of Environmental Protection - Risk Assessment Branch
Mary Murray	Blue Grass Army Depot
Jerry Simms	US Army Corps of Engineers, Louisville District
Jeana Smith	Kentucky Department of Environmental Protection - Division of Waste Management
Katie Watson	IRP Support
Dr. Albert Westerman	Kentucky Department of Environmental Protection - Risk Assessment Branch
Bob Whelove	Industrial Operations Command
Todd Williams	Blue Grass Army Depot

APPROVAL

Jackey L. Edwards
COL
Blue Grass Army Depot

Environmental Coordinator
Blue Grass Army Depot

Mary Murray
Remedial Project Manager
Blue Grass Army Depot

Leslie Remkey
Office of Council
Blue Grass Army Depot

Timothy Matthews
Environmental Restoration Program Manager
Operations Support Command

David Easter
Public Affairs Officer
Blue Grass Army Depot

Dennis L. Bates
Chief, Environmental Law
Operations Support Command

APPROVAL

JEWEL SIMMONS
ARMY MATERIEL COMMAND
Environmental Restoration Program Manager,
Office of the Deputy Chief of Staff for Engineering,
Housing, Environmental, and Installation Logistics

INFORMATION SHARING

AMC, as well as MSCs and installations believe that it should make its environmental restoration information available openly. This Installation Action Plan was forwarded to the following people:

RAB Co-chair (document provided to all RAB members)

State Regulator

EPA Regulator

Installation RPM

ACRONYMS & ABBREVIATIONS

ADA	Ammunition Destruction Area
AEC	Army Environmental Center
ARDC	Armaments Research and Development Center
BGAD	Blue Grass Army Depot
BRAC	Base Realignment and Closure
BMP	Best Management Practices
COE	Corps of Engineers
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
DA	Department of Army
DD	Decision Document
DERP	Defense Environmental Restoration Program
DOD	Department of Defense
DSERTS	Defense Site Environmental Restoration Tracking System
EFF	Effluent
EPA	United States Environmental Protection Agency
ER,A	Environmental Restoration, Army (formerly DERA)
FFA	Federal Facility Agreement
FORSCOM	U.S. Army Forces Command
FS	Feasibility Study
FY	Fiscal Year
GB	Non persistent nerve agent
GW	Groundwater
HQ	Headquarters
IAP	Installation Action Plan
IAG	Interagency Agreement
IRA	Interim Remedial Action
IRP	Installation Restoration Program
IWTF	Industrial Wastewater Treatment Facility
LAP	Load, Assemble, Pack
LTM	Long Term Monitoring
LTO	Long Term Operation
LUC	Land Use Controls
MACOM	Major Command
MCL	Maximum Contaminant Level
NCP	National Contingency Plan
NFA	No Further Action
NFRAP	No Further Remedial Action Planned
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
O&M	Operations & Maintenance
OB/OD	Open Burning / Open Detonation
OMA	Operations and Maintenance - Army
OBG	Open Burning Grounds
OU	Operable Unit
PA	Preliminary Assessment
PP	Proposed Plan
PPB	Parts Per Billion
PPM	Parts Per Million
PY	Prior Year

ACRONYMS & ABBREVIATIONS

RA	Remedial Action
RA(C)	Remedial Action - Construction
RA(O)	Remedial Action - Operation
RAC	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RDX	Cyclotrimethylenetrinitramine
REM	Removal
RI	Remedial Investigation
RIP	Remedy in Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
S&A	Supervision and Administration
SOB	Statement of Basis
SVOCs	Semi Volatile Organic Compounds
SI	Site Inspection
S&R	Supervision and Review
SWMU	Solid Waste Management Unit
TRADOC	Training Doctrine Command
TRC	Technical Review Committee
TNT	2,3,4 - Trinitrotoluene
USACE	United States Army Corps of Engineers
USACHPPM	United States Army Center for Health Promotion and Preventive Medicine
USAEC	United States Army Environmental Center
USAR	United States Army Reserve
USARC	United States Army Reserve Command
USATHMA	United States Army Toxic and Hazardous Material Agency (replaced by AEC)
UST	Underground Storage Tank
UXO	Unexploded Ordnance
VOCs	Volatile Organic Compounds

SUMMARY

STATUS:	Non-NPL with RCRA Interim Status, (Part B Pending)	
TOTAL # OF DSERTS SITES:	54	
ACTIVE ER,A SITES:	11	
RESPONSE COMPLETE (RC) SITES:	43	
DIFFERENT SITE TYPES:	15 Storage/Packaging Areas	2 Tank (UST's\AST's) Areas
	8 Ammo (Detonation\Destruction\Burn) Areas	2 Testing (Surveillance\Tracer) Areas
	7 Treatment\Washout Facility Areas	1 Training (Fire\Gun) Areas
	5 Derusting\Painting\ DMIL Areas	1 Boiler Blowdown Areas
	7 Landfills\Disposal Areas	1 Maintenance Shop Areas
	4 Lagoons\Pond Areas	1 Contaminated Waste Processor Area
CONTAMINANTS OF CONCERN:	Metals, Explosives, Organics (Volatile/Non-Volatile), Mustard Agent/derivatives	
MEDIA OF CONCERN:	Soils, Groundwater, Surface Water, Sediment	
COMPLETED REM/IRA/RA:	UST Removals with Non-ER,A Funds Battery Burial Area (Demolition Grounds) - \$ 245.3K SI's 10 Sites (Electrolyte Storage, DRMO, Temp H Storage, Former Shell Washout Fac, Paint Filter Disposal, Fire Training Area, Pink Water Ponds, Former Waste Ammunition Detonation Site, Boiler Blowdown Areas, & New TNT Lagoons) - \$ 1024.6K Old Landfill New Landfill Dry Acid Pond Area	
CURRENT IRP PHASES:	RC at 42 sites IRA at 2 sites LTR/LTM at 4 sites RFI at 9 sites	
PROJECTED IRP PHASES:	RC at 42 sites LTR/LTM at 7 sites	
IDENTIFIED POSSIBLE REM/IRA/RA:	Old TNT Lagoon Area (BLGR-012) Old Transformer Storage Area (BLGR-044)	
FUNDING:	Prior Year Funding (FY 1980-2000):	\$ 16,793,800
	FY 2001 Funding:	\$ 2,132,000
	Future Requirements (FY 2002-2034):	\$ 2,107,000
	Total Funding (FY 1980-2034):	\$ 21,032,800
DURATION:	Year of Inception: 1980 Year of Completion Excluding LTM: 2001 Year of Completion Including LTM: 2034	

INSTALLATION INFORMATION

LOCALE

The Blue Grass Army Depot (BGAD) covers approximately 14,600 acres in Madison County, Kentucky. The nearest municipality is Richmond (approx. population 27,700). Other key municipalities in the region include Berea (population 8,200), approximately 8 miles south of BGAD, and Lexington (approx. population 270,000), approximately 35 miles north of BGAD.

COMMAND ORGANIZATION

Major Command: Army Materiel Command
Sub-Command: U.S. Army Operations Support Command
Installation: BGAD, Environmental Office

IRP EXECUTING AGENCIES

Executing Agency: Louisville/Nashville District Corps of Engineers

REGULATORY PARTICIPATION

Federal: U.S. Environmental Protection Agency, Region IV
State: Kentucky Natural Resource and Environmental Protection Cabinet, Department of Environmental Protection, Division of Waste Management

REGULATORY STATUS

Non-National Priorities List (Non-NPL)
Interim Status, RCRA Part B Permit Pending
Interagency Agreements, None

MAJOR CHANGES TO IAP FROM PREVIOUS YEAR (2000)

- A Conceptual Groundwater Model is being developed for SWMU sites / Comprehensive Groundwater Management Plan being developed by the Tier I group.
- BGAD continues to participate in Regional Partnering meetings with regulators, COE, contractors, and headquarters personnel.
- Partnering meetings to resolve KDEP's Risk Assessment comments for BLGR-012 are ongoing. Once agreement is reached, BGAD will proceed with executing the scope for the corrective measures study (CMS) portion of this project in FY01. Based on the outcome of decisions on the CMS the installation will proceed with award of contract for Corrective Action work in FY02.
- BGAD has prepared site wide soil background study for SWMUs.
- BGAD continues with its RAB and a Tier I Team (established in FY99). Bimonthly meetings are conducted.
- BGAD maintains the administrative record/information repository located at the facility.
- BGAD received funding to develop a site wide ecological assessment.

INSTALLATION DESCRIPTION

DESCRIPTION

The Blue Grass Army Depot (BGAD) is an active federal government-owned, government-operated facility.

HISTORY

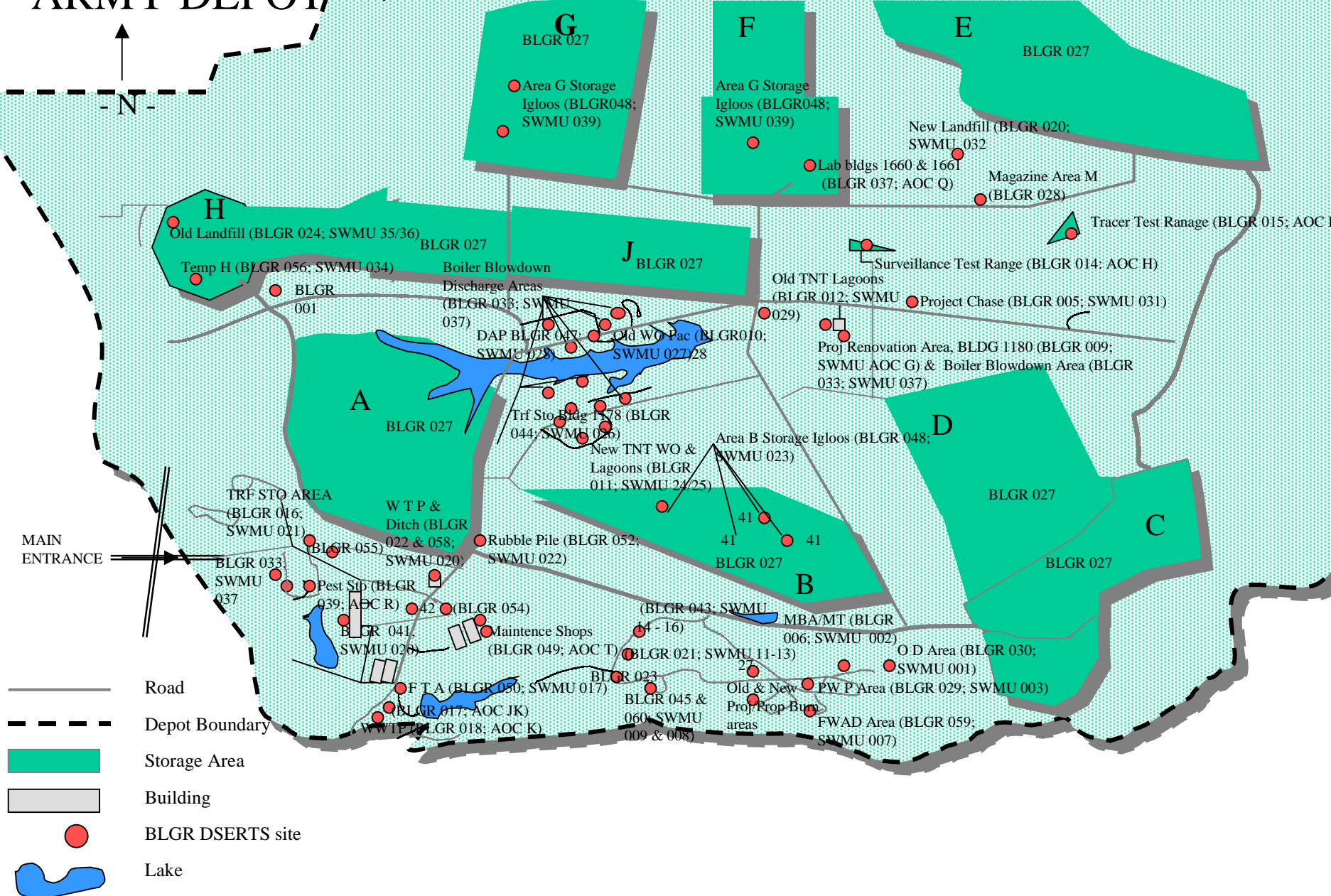
The BGAD was originally established in April of 1942 for the receipt, issuance, storage, maintenance, and disposal of ammunition. Construction of BGAD was a product of the War Department's expansion of ordnance supply depots during World War II. The installation was operated by the Federal Government until October, 1943, at which time the operation of the installation was assumed by a corporation under the name of Blue Grass Ordnance Depot, Inc., a subsidiary of the Firestone Tire and Rubber Company. The corporation operated the installation until October, 1945 when again the Federal Government assumed control.

Land use within the facility is comprised of areas dedicated to the demolition of ordnance and munitions, storage of ordnance and munitions, grazing land for cattle and depot facilities. Storage of ordnance and munitions is primarily accomplished through subsurface igloos and in above-ground warehouses. Disposal of ordnance and munitions is accomplished through an incinerator, open burning of propellant, and detonation. Open land not used by depot operations is leased by the government to cattle ranchers for grazing. Approximately 30% of the site is leased for livestock grazing.

MISSION

To provide munitions, chemical defense equipment and special operations support to the Department of Defense.

BLUE GRASS ARMY DEPOT



CONTAMINATION ASSESSMENT

OVERVIEW

The majority of hazardous waste generated at BGAD, both past and present, results from the demilitarization, renovation, maintenance, storage, and disposal of munitions. Contamination consists mainly of metals, explosives, organics (volatile/non-volatile), mustard agent/derivatives. Groundwater contamination of uncertain impact has been identified. There is no evidence that any contamination has left the boundary of the installation.

The RCRA Facility Assessment Findings document was completed in April 1992. BGAD has been proactive with voluntary investigations and cleanup beginning in 1982.

Surface water and groundwater quality investigations on the BGAD have been conducted beginning in 1982. As a result of these investigations a number of monitoring wells were installed, surface water and groundwater samples were collected and analyzed. Quarterly surface water and groundwater data collection resumed in 1997 and was complete in November 1999. The data will be used to develop a base-wide conceptual groundwater model. This model will be utilized to validate the conclusions of previous studies. Future surface water and groundwater sampling efforts will be conducted annually.

Soil investigations on the BGAD have been conducted beginning in 1982 to present. Initial sampling data indicates the presence of metals and explosives. The existing soil data is expected to be sufficient to develop background soil levels for BGAD.

Final close-out is dependent upon receipt of a RCRA Part B Permit. Regulatory and statutory concerns regarding the chemical demilitarization storage facility must be resolved prior to permitting. BGAD is proceeding with cleanup activities. The Army goal is to have all obligations in place at BGAD by 3rd QTR FY02.

CONTAMINATION ASSESSMENT

PREVIOUS STUDIES

1980

- Installation Assessment of Lexington-Blue Grass Depot Activity, USATHAMA Report No. 151, April 1980.

1982

- USATHAMA Rapid Response Environmental Surveys, Blue Grass Army Depot, November 5, 1982, prepared by ESE, Inc.

1983

- USAEHA Hazardous Waste Management Survey No. 37-26-049-84 of the Lexington-Blue Grass Depot Activity, May 16-20, 1983.

1986

- RCRA Facility Assessment Report, Prepared by A.T. Kearney, August, 1986 for USEPA Region IV.

1989

- RCRA Facility Investigation of the Dry Acid Pond Area, Fire Training Area, New Landfill Area, Old Landfill Area, Open Detonation Area, Pink Water Pond Area, Propellant Burn Area, and TNT Lagoon Area. Prepared by Law Environmental, Inc., 1989 for U.S. Army Corps of Engineers.

1990

- Corrective Measures Study for the Dry Acid Pond Area, New Landfill Area, Old Landfill Area, Open Detonation Area, Pink Water Pond, and the TNT Lagoon Area. Prepared by Law Environmental, Inc., 1990 for U.S. Army Corps of Engineers.
- Corrective Action Report for the Deactivation Furnace area, DRMO Storage Area, Electrolyte Storage Area and the General Refuse Incinerator Area. Prepared by Law Environmental, Inc., 1990 for U.S. Army Corps of Engineers.

1992

- Preliminary Site Inspection for Lexington-Blue Grass Army Depot, Blue Grass Army Depot. Prepared by Advanced Sciences, Inc., 1992 for USATHAMA.

1996

- Site Investigation Reports for the Holding Ponds (New TNT Lagoons), Temporary H Storage Area, Former Waste Ammo Detn Site, Former Shell Washout Facility, Shell Washout Facility (New TNT Washout Facility), Open Detonation Area, Boiler Blowdown Discharge Areas, Electrolyte Storage Area, Defense Reutilization Marketing Office (DRMO), Battery Burial Area (Demo Grounds). Prepared by Sverdrup Environmental, Inc.

CONTAMINATION ASSESSMENT

PREVIOUS STUDIES, Continued

1996

- Site Investigation Reports for the Holding Ponds (New TNT Lagoons), Temporary H Storage Area, Former Waste Ammo Detn Site, Former Shell Washout Facility, Shell Washout Facility (New TNT Washout Facility), Open Detonation Area, Boiler Blowdown Discharge Areas, Electrolyte Storage Area, Defense Reutilization Marketing Office (DRMO), Battery Burial Area (Demo Grounds). Prepared by Sverdrup Environmental, Inc.
- RFI Reports for the Old Landfill, New Landfill, Dry Acid Ponds Area. Prepared by Sverdrup Environmental, Inc.
- IRA Plan for the Mustard Burn/Mustard Trenches Area. Prepared by Sverdrup Environmental, Inc.
- Remedial Design Investigation Report for the New Landfill and the North Battery Burial Area (Old Landfill). Prepared by Sverdrup Environmental, Inc.

1997

- Relative Risk Site Evaluation (RRSE) prepared by United States Army Center for Health Promotion and Preventative Medicine (USACHPPM) for the Blue Grass Army Depot, Richmond Facility.

1998

- Site Characterization Report Demo Grounds Area. Prepared by Radian, Inc.

1998-Present

- Quarterly Long Term Monitoring Reports. Prepared by International Technology (IT) Inc.

2000

- (Phase 1) Final Conceptual Sitewide Groundwater Flow Model developed. Prepared by URS, Dames & Moore.
- Depot Wide Background Soil Investigation. Prepared by Jacobs Env., Inc.

**ER, A ELIGIBLE
ACTIVE DSERTS SITES**

BUILDING 1161, MUSTARD SHELL DMIL AREA (AOC C) BLGR-002

SITE DESCRIPTION

The site is located in the central portion of the facility north of Lake Vega. In 1949 - 1973 this building was used for the reconditioning of batteries (acid removal), in addition to reconditioning of 155mm, H-filled projectiles in 1955. The projectile operation consisted of derusting, repainting, and remarking the projectiles inside the building on a concrete pad. No known releases occurred during the period of operation.

Batteries were drained and the effluent acid waste from the building was transported via a vitrified clay trough supported by a concrete pad to the Dry Acid Ponds. Contamination resulting from this site is being addressed under BLGR-049.

The regulatory agencies requested additional information to confirm the unit's existence and location, construction, period(s) of operation and management practices. Regulatory agency assessment in RFA report, 1992 requested additional information that supported unverified information that demilitarization occurred within an enclosed building on a concrete pad. BGAD was able to demonstrate that demilitarization activities did not occur at this building.

Currently this building is inactive. The State has recommended no further action.

PROPOSED PLAN

No further action is recommended by Army based on additional information, awaiting Regulator concurrence.

IRP STATUS

RRSE RATING: Medium

CONTAMINANTS:

Metals, explosives, toxic organics

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE: RFA

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

SWMU#: AOCC

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; Dry Acid Pond RFI Phase II Report, SVE 1996 (Chase Environmental Remedial Action work and additional sampling, 1995); USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 .

PROJECT CHASE, BLGR-005

SITE DESCRIPTION

The site is located on the north side of Rt. 114. During 1970-1972 this site was used for the packaging of waste ammunition. The site consisted of a 10 foot by 20 foot metal building in which 3,373 rounds of 115mm GB-filled (non-persistent nerve agent) rockets were prepared for deep sea disposal. Surface and subsurface soil samples were taken around the perimeter of the building during RRSE evaluation work by USACHPPM in 1997. Low levels of lead and zinc were found in one surface soil sample. There have been no known releases to the environment. Access to the site is limited to facility personnel working in the restricted area. Regulatory agency recommended no further action. This site is inactive.



PROPOSED PLAN

No further action is recommended by Army.

IRP STATUS

RRSE RATING: High
CONTAMINANTS: GB, VX, H Mustard
MEDIA OF CONCERN: Soil
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: RC
FUTURE IRP PHASE: RC
SWMU #: SWMU #31

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 .

MUSTARD BURN/MUSTARD TRENCHES SITE

BLGR-006

SITE DESCRIPTION

The site is located within the boundaries of the demolition grounds. This site is located within a fenced area inside the restricted (already fenced) area. From 1949 - 1955 this site received approximately 900 rounds, reportedly filled with H-mustard. The rounds were broken apart with shaped charge explosives and burned with scrap wood. KDEP recommended a RFI. Based on the investigations, low contaminant (explosives, metals, PAHs) concentrations detected in the groundwater and surface water. Groundwater in this area is not used for human consumption. There were no detections of thiodiglycol (mustard breakdown product). Long-term monitoring of groundwater is currently in place at this site. The area is inactive.

PROGRAMMED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
RI/FS							
IRA							
RD							
RAC							
LTO							
LTM	24						

PROJECTED TOTAL: \$ 24,000

PROPOSED PLAN

Groundwater contamination will continue to be assessed through long term monitoring.

IRP STATUS

RRSE RATING: Low
CONTAMINANTS:
 Metals, explosives, mustard
MEDIA OF CONCERN:
 Groundwater, surface water, soil
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: RFI, LTM
FUTURE IRP PHASE: LTM
SWMU NUMBER: SWMU #2

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; Mustard Burn/Mustard Trenches RFI, 1994. USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/97. Monitoring wells installed (Law, 1989).

FORMER HOLDING PONDS (4), BLGR-012

SITE DESCRIPTION

This site is located northeast of Lake Vega. The Old TNT lagoons were in operation from the early 1940's to 1975. The lagoons received wastewater discharge from the Old Shell Washout Facility. When the shell washout facility was burned down in 1975, the holding ponds were backfilled with berm material (20 inches of soil on 10 inches of clay) and revegetated. A wastewater treatment plant was constructed on a portion of the old lagoon site in 1980-81. KDEP recommended a RFI. A Risk Assessment was completed in FY1996. KDEP is requiring further investigation to support the human health risk assessment, ecological risk assessment, and background levels for metals.



PROPOSED PLAN

The human health risk assessment will be revised, and an ecological risk assessment is underway. Long term monitoring will continue to be conducted. Facility will proceed with CMS development FY01.

IRP STATUS

RRSE RATING: Low
CONTAMINANTS: TNT, HMX, DNT
MEDIA OF CONCERN:
 Soil, Groundwater, and Surface Water
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: RFI
FUTURE IRP PHASE: LTM
SWMU NUMBER: SWMU #29

PROGRAMMED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
R/FS	275						
IRA							
RD							
RAC							
LTO							
LTM	11	11	16	11	11	11	270
PROJECTED TOTAL: \$ 616,000							

REFERENCES: Old TNT Lagoons (RFA), Law Environmental, 1989; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; Old TNT Washout Lagoons Report (RFI Phase II), SVE 1996; Old TNT Lagoons Risk Assessment, SVE 1996; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

HOLDING PONDS (2), BLGR-013

SITE DESCRIPTION

The site is located south of Lake Vega. The New TNT lagoons were in operation from the early 1976's to 1984. The lower lagoon received treated wastewater effluent from activated carbon absorption units associated with the shell washout facility. The upper (northern) lagoon is used exclusively for fire fighting purposes. KDEP recommended RFA phase II sampling.

There was no contamination detected in the lagoons during phase II sampling in 1994. Ponds were sampled after a spill event from lines being flushed out at the Washout facility in 1996. There was no detection of explosives.



PROPOSED PLAN

A closure report requesting no further action will be submitted to KDEP.

IRP STATUS

RRSE RATING: Low

CONTAMINANTS: Trace TNT and DNT

MEDIA OF CONCERN:

Soil, Groundwater, and Surface Water

COMPLETED IRP PHASE: RFA

CURRENT IRP PHASE: RFI

FUTURE IRP PHASE: RC

SWMU NUMBER: SWMU #25

REFERENCES: New TNT Lagoons (RFA), Law Environmental, 1989; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; New TNT Washout Lagoons Report (SI), SVE 1996; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

FORMER TRANSFORMER STORAGE AREA BLGR-016

SITE DESCRIPTION

This site is located east of Bldg 57. It was used until 1981 for the storage of PCB and other dielectric-containing transformers (some in drums). The site consist of a 30 ft² concrete pad. No PCB-containing transformers are currently stored at the site (all were disposed of by the Defense Logistics Agency in 1981). Soil samples were taken during site visit by USACHPPM in 1997. Low levels of PCBs were detected in two of the subsurface soils. A vegetative cover (unstressed in appearance) surrounds the pad. There is no evidence that surface soils migrated beyond the site. Access to the site is not restricted. Currently this site is being used by contractors as a staging area for equipment and supplies.

An RFI was recommended by the regulatory agency based on COE (subcontracted to Law Environmental) sampling event in 1987 (detected PCB concentrations of 0.23 to 7.72 ppm around the unit). Soil samples were taken during site visit by USACHPPM in 1997. Low levels of PCBs were detected in two of the samples.



S T A T U S

RRSE RATING: Low
CONTAMINANTS: PCB's
MEDIA OF CONCERN: Soil and Surface Water
COMPLETED IRP PHASE: RFA, RFI
CURRENT IRP PHASE: IRA
FUTURE IRP PHASE: RC
SWMU NUMBER: SWMU #021

PROPOSED PLAN

The PCB contaminated soil will be removed and confirmatory sampling will be conducted. A closure report recommending no further action will be submitted to KDEP.

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (sampling site visit, 1997), report 3/1998.

NEW LANDFILL, BLGR-020

SITE DESCRIPTION

This site is located north of the Above Ground Magazines on Rt.81 The New Landfill was in operation from the 1960's until its closure in 1979. It is located in an old limestone quarry and is approximately 1.25 acres. Wastes handled at the facility included paper products, shipping crates, office waste construction debris and general household refuse. Infectious waste was reportedly buried in "Special Section" of the site. A 30 inch earthen cap was placed on the landfill in 1983 but wasn't maintained. A RCRA approved cap was designed and placed on the site in 1997 and the site was fenced. LTM commenced at this site in 1998.



PROPOSED PLAN

Long term monitoring will continue to be conducted. A Statement of Basis/or Summary Report will be submitted to KDEP to close out site.

IRP STATUS

RRSE RATING: High
CONTAMINANTS: Metals, SVOCs
MEDIA OF CONCERN:
 Soil, Surface Water, and Groundwater
COMPLETED IRP PHASE: RFA, RFI
CURRENT IRP PHASE: LTM
FUTURE IRP PHASE: LTM
SWMU NUMBER: SWMU #32

PROGRAMMED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
RI/FS							
IRA							
RD							
RAC							
LTO							
LTM	30	25	25	25	25	25	628

PROJECTED TOTAL: \$ 783,000

REFERENCES: New Landfill (RFI), Law Environmental, 1989; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; New Landfill RFA Phase II, Remedial Design, SVE 1996; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 .

DEACTIVATION FURNACE/SCRAP METAL STORAGE AREA/DEAC LEAD SLAG DISPOSAL AREA, BLGR-021

SITE DESCRIPTION

This site is located in the demolition grounds area (east of route 115). The DEAC Furnace was put into operation in 1959 until the early 1980's. Approximately 500 tons of ammunition was destroyed annually. The building was upgraded in the early 1980's to include an air pollution control (APC) system. The APC ash tested EP toxic for lead and was managed as a hazardous waste. This unit is RCRA Regulated. An SI was performed which included sampling around the perimeter of the building and adjacent area in 1994. No contamination was found. Closure activities are complete for the deactivation furnace.



PROPOSED PLAN

Confirmatory sampling FY01. A closure report will be submitted to address the scrap metal storage area and the lead slag area.

IRP STATUS

RRSE RATING: High
CONTAMINANTS: Metals, organics
MEDIA OF CONCERN:
 Soil, Surface Water, and Groundwater
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: RFI
FUTURE IRP PHASE: RC
SWMU NUMBER: SWMU #011/012/013

PROGRAMMED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
RI/FS	5						
IRA							
RD							
RAC							
LTO							
LTM							

PROJECTED TOTAL: \$ 5,000

REFERENCES: DEAC Furnace (RFI/CMS), Law Environmental 1989; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); SI sampling by SVE, 1994; A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998. There is no evidence that surface soil migrated beyond the site. Subsurface soil or groundwater contamination wasn't detected. Site is located inside the restricted area in demo grounds area (demo grounds area is fenced). RCRA Closure

NORTH BATTERY BURIAL AREA #1 (DEMO GROUNDS)

BLGR-023

SITE DESCRIPTION

This site is located in the demolition grounds area. The battery burial area is located between the Contaminated Waste Processor and the Deactivation Furnace. Burial of between 2000-3000 zinc carbon dry cell batteries occurred in 1970. During SI work by SVE in 1995 batteries were located (and still wrapped on a pallet) and the batteries along with soil was excavated from the site. The material was dispose per regulatory requirements. Sampling was performed and the batteries were located, removed and taken to a regulated disposal facility. Confirmatory sampling was performed after the battery removal.

PROPOSED PLAN

A closure report will be submitted to KDEP.

IRP STATUS

RRSE RATING: Low
CONTAMINANTS: Metals, organics
MEDIA OF CONCERN:
Soil, Surface Water, and Groundwater
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: RFI
FUTURE IRP PHASE: RC
SWMU NUMBER: SWMU #36

REFERENCES: Old Landfill (RFI), Law Environmental, 1989; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; Old Landfill RFA Phase II, Remedial Design, SVE 1996; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 .

OLD LANDFILL/NORTH BATTERY BURIAL AREA #2 BLGR-024

SITE DESCRIPTION

The site is located on the northwest boundary of the facility. The Old Landfill was in operation from 1942 until its closure in 1971. It is located in an abandoned limestone quarry and is approximately 3.9 acres. Wastes handled at the facility included paper products, shipping crates, office waste construction debris and dunnage, domestic and industrial waste sludge, contaminated plating shop solutions and transformer fluids as well as 200,000 batteries of unknown type. A 30 inch earthen cap was placed on the landfill in 1983 but wasn't maintained. In 1996, during investigation and sampling work by SVE, prior to capping the landfill the batteries were located within the boundary of the landfill. A RCRA approved cap was designed and placed on the site in 1997 and the site was fenced. LTM began in 1998.

PROPOSED PLAN

Additional remediation work to be conducted at adjacent Quarry Pond and sedimentation collected at top of landfill. Long term monitoring will continue.

IRP STATUS

RRSE RATING: High
CONTAMINANTS: Metals, organics
MEDIA OF CONCERN:
 Soil, Surface Water, and Groundwater
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: LTM
FUTURE IRP PHASE: LTM
SWMU NUMBER: SWMU #35/36

PROGRAMMED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
RI/FS							
IRA							
RD							
RAC	324						
LTO							
LTM	19	19	26	19	19	19	531

PROJECTED TOTAL: \$976,000

REFERENCES: Old Landfill (RFI), Law Environmental, 1989; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; Old Landfill RFA Phase II, Remedial Design, SVE 1996; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

FORMER PROJECTILE BURNING AREA, BLGR-031

SITE DESCRIPTION

This site is located in the Demolition Grounds Area (near the intersection of rt. 117 and 110). The Former Projectile Burn Area is an inactive site of approximately 20 acres. It operated from 1942 to 1985. The site became inactive with the construction of the New TNT Washout Facility and the movement of propellant burning to the Propellant Burn Area. The site was used to melt out and then open burn the explosives in projectiles. All activities were performed on the surface (no trenching).

PROPOSED PLAN

A CMS is being developed. RFI activities will include the installation of three GW monitoring wells and soil sampling. LTM will be performed. BGAD and KDEP will review the data and a determination will be made on closure of the site.

IRP STATUS

RRSE RATING: Medium
CONTAMINANTS: Metals, explosives
MEDIA OF CONCERN:
 Soil, Surface Water, and Groundwater
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: RFI
FUTURE IRP PHASE: LTM
SWMU NUMBER: SWMU #6a

PROGRAMMED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
R/FS	135						
IRA							
RD							
RAC							
LTO							
LTM	25	25	15	12	12	12	184

PROJECTED TOTAL: \$ 420,000

REFERENCES: Propellant Burn Area (RFI/CMS), Law Environmental, 1989/1990; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/

NEW PROPELLANT BURNING AREA, BLGR-032

SITE DESCRIPTION

This site is located in the south central section of the facility in Demolition Grounds Area (near the intersection of Rt. 117 and 110 across the road from the Old Projectile Burn Area). 1979, release to soil and air due to smoke pots stored at the unit caught fire. Area of the smoke pot fire was cleaned by 10/80. Burning was confined to steel pans. The New Propellant Burn Area is a RCRA Regulated that consist of an area approximately inactive site of approximately 20 acres. It operated from early 1980's to the present. Propellant burning is conducted in steel pans from which ash can be collected. Currently this site is active and this area is included in the defined area of the OB/OD area.



PROPOSED PLAN

This site is being addressed under a RCRA Part B Permit, and is response complete in DSERTS.

S T A T U S

RRSE RATING: Low
CONTAMINANTS: Metals, explosives
MEDIA OF CONCERN:
Soil, Surface Water, and Groundwater
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: RC
FUTURE IRP PHASE: RC
SWMU NUMBER: SWMU #6b

REFERENCES: Propellant Burn Area (RFI/CMS), Law Environmental, 1989/1990; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998. Risk Assessment, Radian 1998.

UNDERGROUND STORAGE TANKS (50), BLGR-034

SITE DESCRIPTION

The UST's are located in various areas throughout the facility. There were 50 tanks ranging from 50 to 12,000 gallons that were used for the storage of fuel oil, gasoline and diesel fuel. Forty-eight of the 50 tanks have either been removed, replaced, or upgraded. The remaining 2 are awaiting closure from KDEP. No contamination was detected during PA/SI. Documentation on file in environmental office.

PROPOSED PLAN

There is no evidence of contamination. Closure certification document received from KDEP. Memo to file.

IRP STATUS

RRSE RATING: Low
CONTAMINANTS: VOC's
MEDIA OF CONCERN:
Soil, Groundwater
COMPLETED IRP PHASE: RFA, IRA
CURRENT IRP PHASE: RC
FUTURE IRP PHASE: RC
SWMU NUMBER: AOC #0

REFERENCES: A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; Yank A Tank Program, files maintained in environmental office; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

GENERAL REFUSE INCINERATOR AREA (GFI) (BLDG T-252) BLGR-043

SITE DESCRIPTION

This site is located in the south central section of the facility in demolition grounds area. This DSERTS site includes three areas: the incinerator (which is currently active and not ER,A eligible), an ash accumulation area, and a scrap metal storage area. Wastes previously handled at the facility include paint filters, circuit boards, filter projectile tubes and general refuse. All ash generated at T-252 and metal in the metal storage area were managed and disposed of in accordance with regulations. Only general refuse is handled at the site.



RFA Phase II Sampling for the metal storage area and the incinerator ash accumulation area required.

PROPOSED PLAN

IRA FY01.

STATUS

RRSE RATING: Low
CONTAMINANTS: Metals and PCB's
MEDIA OF CONCERN:
 Soil, Surface Water
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: RFI
FUTURE IRP PHASE: RC
SWMU NUMBER: SWMU #014/015/016

PROGRAMMED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
R/FS	10						
IRA	20						
RD							
RAC							
LTO							
LTM							

PROJECTED TOTAL: \$ 30,000

REFERENCES: GRI Report (RFI/CMS) Law Environmental, 1990; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

TRANSFORMER STORAGE AREA (BLDG 1178), BLGR-044

SITE DESCRIPTION

This site is located in the central portion of the facility (adjacent to Lake Vega). This site was used until 1996 for the storage of PCB and other dielectric-containing transformers prior to off-site disposal. The building is bermed with concrete floors and no floor drains. Sampling conducted by USACHPPM (8/97) detected no PCBs in the subsurface soils, concluding that the site had probably not contaminated the groundwater. There is no evidence that surface soils migrated beyond the site. Access to the site is restricted to workers in the area. Data from the USACHPPM sampling event (8/97) didn't detect PCBs in the subsurface soils (depth 2-5 feet).

KDEP recommended no further action.
Memo to file.

PROPOSED PLAN

No further action is required.

IRP STATUS

RRSE RATING: Low

CONTAMINANTS: PCB's

MEDIA OF CONCERN:

Soil, Groundwater

COMPLETED IRP PHASE: RFA

CURRENT IRP PHASE: RC

FUTURE IRP PHASE: RC

SWMU NUMBER: SWMU #26



REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (sampling site visit, 1997), report 3/1998.

DRY ACID PONDS, BLGR-047

SITE DESCRIPTION

This site is located north of Lake Vega. The Dry Acid Ponds were in operation from 1949 until 1973. Treatment unit consisted of two unlined ponds located west of Bldg 1161. The north pond received overflow from the south pond from the operations in building 1161. The ponds received acid wastes from the derusting, re-painting and reworking of 155mm H-filled projectiles. In 1955, 17,143 projectiles were reconditioned at Bldg. 1161. There are two surface water bodies adjacent to the ponds: one small unnamed stream flowing north to south to Lake Vega, and Lake Vega. The ponds were basically dry, but the sediments remained in place from the operations in Bldg 1161. KDEP recommended a RFI. Soil and groundwater were collected and analyzed by Law (1989) detected metals above MCLs. The RFI sampling was completed. In 1997, an IRA was performed including the excavation of soils, backfilling the ponds, and site revegetation. LTM of groundwater commenced at the site in 1997. Currently this site is inactive.



PROPOSED PLAN

Long term monitoring will continue. A closure report has been submitted to KDEP.

STATUS

RRSE RATING: Low
CONTAMINANTS: Metals
MEDIA OF CONCERN: Soil, Groundwater
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: LTM
FUTURE IRP PHASE: LTM
SWMU NUMBER: SWMU #028

PROGRAMMED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
RI/FS							
IRA							
RD							
RAC							
LTO							
LTM	36	36					

PROJECTED TOTAL: \$ 72,000

REFERENCES: RFI (LAW, 1989); A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; RFA Phase II/ Remedial Action (SVE/CHASE, 1996/1997); USACHPPM Relative Risk Site Evaluation (site visit, 1997),

WOOD DUMP/KINDLING YARD (FIRE TRGN AREA), BLGR-050

SITE DESCRIPTION

This site is located Lake Buck and was operated as a fire training area from 1954-1980. Currently the site is being used to receive scrap wood, scrap metal and fiber tubes (used for the shipment of munitions). Surface water runoff from the site drains into the Hayes Fork Drainage System (includes Lake Gem, Lake Buck and its tributaries). Monitoring wells have been installed at the site. Groundwater and surface water samples detected metals and pentachlorophenol (from treated wood placed on the site) below regulatory standards (Law, 1989). Arsenic was also detected below MCLs in groundwater. The site is fenced with limited access.

PROPOSED PLAN

Long term monitoring will continue.

IRP STATUS

RRSE RATING: Low
CONTAMINANTS: Metals
MEDIA OF CONCERN:
Soil, Groundwater
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: LTM
FUTURE IRP PHASE: LTM
SWMU NUMBER: SWMU #017

REFERENCES: Fire Training Area (RFI/Law, 1989); Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998. Additional sampling was conducted at the site and detected metals below the 1989 investigation levels. LTM groundwater sampling has commenced (IT, 1997).

TEMPORARY H STORAGE SITE, BLGR-056

SITE DESCRIPTION

This site is located in the northwest section of the facility. This area was used as a temporary storage site in 1949 for 75mm H-filled projectiles. The site had railroad tracks entering the area from the south and berms on the other three sides. The shells were shipped on pallets and suspect shells (leakers) were removed from the railcars and demilitarized in the bermed area. RFA Phase II sampling was performed and no contamination was detected.

PROPOSED PLAN

A closure report requesting no further action will be submitted to KDEP.

IRP STATUS

RRSE RATING: Medium
CONTAMINANTS: Metals and mustard
MEDIA OF CONCERN:
Soil, Groundwater, Surface Water
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: RFI
FUTURE IRP PHASE: RC
SWMU NUMBER: SWMU #034

REFERENCES: RFI (LAW, 1989); A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; Combined Sites Report (Phase II sampling) (SVE, 1994); USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

FORMER WASTE AMMO DETONATION AREA, BLGR-059

SITE DESCRIPTION

This site is located in the south central section of the facility in demolition grounds area (near the intersection of Rt. 117 and 110 across the road from the Old Projectile Burn Area). The Former Waste Ammunition Detonation Site operated from 1949 until 1973 at which time it was replaced by the Open Detonation site approximately 400 feet. Material was placed in unlined trenches along with wood, fuel and a charge then detonated.



PROPOSED PLAN

LTM will continue to be performed.
Summary Report to be issued for closure.

IRP STATUS

RRSE RATING: High
CONTAMINANTS: Explosives and Metals
MEDIA OF CONCERN:
 Soil, Groundwater, Surface Water
COMPLETED IRP PHASE: RFA
CURRENT IRP PHASE: RFI, LTM
FUTURE IRP PHASE: LTM
SWMU NUMBER: SWMU #007

PROGRAMMED COST TO COMPLETE

PHASE	2001	2002	2003	2004	2005	2006	2007+
RI/FS	570						
IRA	648						
RD							
RAC							
LTO							
LTM			35	30	30		

PROJECTED TOTAL: \$ 1,313,000

REFERENCES: Former Waste Ammunition Detonation (RFI), Law Environmental, 1989; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); SI sampling by SVE, 1994; A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

**ER, A ELIGIBLE RESPONSE
COMPLETE DSERTS SITES**

BLDG 902, BURSTER REMOVAL AREA , BLGR-001 (SWMU # AOC A)

SITE DESCRIPTION

The site is located northwest of Route 12. In 1949 the building was used to remove explosive bursters from approximately 260,000 H-filled 75mm projectiles. Mustard wasn't drained during this process or in the building. All work was done inside building. This building has a concrete floor, no floor drains, it has bathroom facilities that drain to a septic tank, therefore no release to environment and no further action recommended by USACHPPM, 1997.

BGAD granted a request from KDEP for additional information to confirm the unit's existence and location, construction, period(s) of operation and management practices.

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 .

SITE STATUS

No further action is required. Memo to file.

PROJECTILE DMIL AREA, BLDG 558, BLGR-003 (SWMU # AOC B)

SITE DESCRIPTION

This site is located into the central portion of the facility on Route 120, south of Lake Vega. From 1950-1951 demilitarization of H-filled projectiles were conducted in this building. The operation consisted of mechanically separating the fuze/burster assembly from agent filled projectiles. No drainage of mustard occurred in this building and there are no floor drains in the building, therefore no release to environment (USACHPPM, 1997).



Current use of building is for the storage of paint and thinner. Building is kept locked when not in use.

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

No further action is required. Memo to file.

PROJECTILE ASSEMBLY AREA (BLDG 1170), BLGR-007 (AOC-E)

SITE DESCRIPTION

This site is located north of Lake Vega. During 1954-1955 it was used as a fuze assembly operation to install fuzes in 167,886 105mm H-filled projectiles. All work was done inside the building with no floor drains, therefore there was no release to the environment and no further action recommended (USACHPPM, 1997). This building is currently used for the storage of old parts and equipment.

REFERENCES: A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

No further action is required. Summary document to KDEP.

BLDG 550, BURSTER & FUSE REMOVAL AREA, BLGR-008

SITE DESCRIPTION

This site is located south of Lake Vega. In 1966 approximately 167,795 burster and fuse assemblies were removed from H-filled M60 projectiles. The building has concrete floors that drain to a septic tank. All work is done inside the building, therefore there has been no release to the environment. This building is currently used for the derusting and repainting of projectiles.

REFERENCES: PA/SI conducted in 1986, found no evidence of contamination; A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

There is no evidence of contamination. No further action is required. Summary letter to KDEP.

PROJECTILE RENOVATION AREA BLDG 1180, BLGR-009 (AOC G)

SITE DESCRIPTION

Central Portion of Facility south of Rt. 114. In 1967, approximately 6,000 8-inch GB-filled shells were renovated. The operation consisted of the installation of explosive burster assemblies, repainting, and remarking. This building has a concrete floor that drains to the sanitary sewer. GB wasn't drained from the shells.

Currently this building is currently used for short term ammunition projects.

REFERENCES: A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 (recommended no further action).

SITE STATUS

No further action is required. Summary letter to KDEP.

FORMER SHELL WASHOUT FACILITY (BLDG 1155), BLGR-010 (SWMU #27)

SITE DESCRIPTION

Central Portion of Facility north of Lake Vega. This site operated from the early 1940's to 1975 for the recovery of TNT, amatol, and composition B explosives from projectiles. The explosives were dissolved using steam and were recovered by using steam and pelletizing. Wastewater from this facility was drained to a baffled settling tank and the liquid channeled to a series of filter trays containing sawdust and disposed in the Former Holding Ponds (Old TNT Lagoons). Waste from the tanks and exhausted sawdust were burned in the Projectile Burning Area at the demolition grounds. The building was intentionally burned down in 1975. Site was revegetated and there has been no evidence of stressed vegetation. In 1994, surface and subsurface soil samples were taken at the site and no contamination was found. Additional sampling was performed in 1996 and no contamination was found.

REFERENCES: TNT Washout Facility, Law Environmental, 1989; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; Combined Sites Report, SVE 1996 (conducted additional sampling of site, found no evidence of contamination); USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

No further action is required. Summary letter to KDEP.

SHELL WASHOUT FACILITY (NEW TNT WASHOUT FAC), BLGR-011 (SWMU # 24)

SITE DESCRIPTION

This site is located south of Lake Vega. Operations began in 1976 and are currently ongoing. Activities included removing, washing, drying, and repacking explosives from old projectiles and reclaiming them. Reclaimed TNT is pelletized and used as a blasting agent in the Open Detonation Area. A filtration system is used to remove the small amounts of TNT from the water that escapes the reclamation process. The wash water passed through a carbon tower. The washout water does not meet the hazardous waste listing K047 since the washout facility is engaged in reclamation rather than production. At TNT concentrations of 5ppm, the discharged water does not exhibit the characteristic of reactivity.

During maintenance in 1996 a pipe was left open and when the lines were flushed the liquid was deposited in a field directly below the concrete pad. The material was cleaned and soil was excavated from the area and disposed of per regulatory requirements (TNT spill report and inspection by State - Lloyd Funkhauser, 1997). Currently this building is active. Regulatory agency recommended RFA Phase II sampling.

REFERENCES: New TNT Washout (RFA), Law Environmental, 1989; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; New TNT Washout Report (SI), SVE 1996; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998. Red water was visible on the ground surrounding the building (due to storm water runoff), and the ditch surrounding the building, additional sampling was done by USACHPPM, 1997 around the building (analyzed for metals and explosive compounds). Very low levels of metals were detected in the subsurface soil and are unlikely to contaminate the groundwater.

SITE STATUS

This site is still active and is not eligible for ER, A funding. No further action is required. Summary letter to KDEP.



SURVEILLANCE TEST RANGE, BLGR-014 (#AOC H)

SITE DESCRIPTION

This site is located north of Rt. 114 at the end of Rt. 113 and Big Muddy Creek. Site was used to conduct quality assurance function tests of stockpile ammunition until 1980. Site is currently heavily vegetated with field growth.

The heavy vegetative cover on the site reduces the likelihood that surface soil contamination could migrate to other media, however soil samples were collected that resulted in very low levels of metals. There is no evidence that surface soil has migrated beyond the site. Also, this site is located within the restricted area and there are no work places, residences, schools or day care centers in the area of low detection. However, depot workers who are eligible to enter the restricted area have unlimited access to the site. Site does not manage waste.

REFERENCES: A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998. Low levels of metals (barium, cobalt, chromium, copper and nickel) were detected in surface soils (didn't exceed regulatory levels).

SITE STATUS

No further action is required. Summary letter to KDEP.

TRACER TEST RANGE, BLGR-015 (#AOC I)

SITE DESCRIPTION

This site is located east of the Surveillance Test Range, and north of Rt. 114 on the north side Big Muddy Creek. Site was used to conduct function tests of tracer ammunition until 1980. Site is currently heavily vegetated with field growth. A 20 X 20 earthen embankment was the impact area for the rounds. In 1997 low levels of explosives and metals (barium, zinc and lead) were detected in one sample during USACHPPM site work.

The heavy vegetative cover on the site reduces the likelihood that surface soil contamination could migrate to other media, however soil samples were collected that resulted in very low levels of metals. There is no evidence that surface soil has migrated beyond the site. Also, this site is located within the restricted area and there are no work places, residences, schools or day care centers in the area of low detection. However, depot workers who are eligible to enter the restricted area have unlimited access to the site. Site does not manage waste.

REFERENCES: A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

No further action is required. Summary letter to KDEP.

TRAINING AREA/GUN RANGE, BLGR-017 (#AOC J)

SITE DESCRIPTION

This site is located East of Lake Gem. The site is used for training for field artillery and ROTC units. The training exercises are limited to blank ammunition with smoke grenades. No other types of weapons are reported to have been fired here. Currently this site is active. Site does not manage waste.

REFERENCES: A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998. Low levels of metals (barium, cobalt, chromium, copper and nickel) were detected in surface soils. LTM at the adjacent Fire Training Area/Kindling yard resumed in the fall of 1997. Area will be assessed in the comprehensive groundwater management plan.



SITE STATUS

This site is still active and is not eligible for ER,A funding. No further action is required.

SEWAGE TREATMENT PLANT BLDG 230, BLGR-018 (#AOC K)

SITE DESCRIPTION

This site is located east of Lake Gem. This facility is used for the treatment of domestic sewage. It consists of a bar screen, primary and secondary clarifiers, a trickling filter, and a chlorination tank. No industrial waste are treated at the plant and no hazardous releases are likely. The plant's effluent discharges to a tributary of Hayes Fork. Sludges are drawn semiannually to drying beds, under drainage from which is returned to the head of the plant. The dried sludge is used as a soil conditioner. The facility was upgraded 1977-1988. Currently this site is active.

REFERENCES: A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998. Low levels of metals were detected in a sludge sample, but didn't exceed regulatory levels. No evidence of contamination was detected during the SI. LTM at the adjacent Fire Training Area/Kindling yard resumed in the fall of 1997.



SITE STATUS

This site is still active and is not eligible for ER,A funding. No further action is required.

WATER TREATMENT PLANT BLDG 228, BLGR-022 (#AOC L)

SITE DESCRIPTION

This site is located near the intersection of Rt. 1 and 10. The Water Treatment plant (W.P.) is a complete filtration plant which produces potable water to the Blue Grass Army Depot by drawing from the Lake Vega reservoir. Tests for turbidity of raw water, pH, total alkalinity, hardness, and total (combined) available chlorine residual are performed daily. Weekly samples at two different locations in the distribution system are taken for residual chlorine. All powdered chemicals are stored in a separate building with a concrete floor and no floor drains.

This site is active.

REFERENCES: A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.



SITE STATUS

This site is still active and is not eligible for ER,A funding. No further action is required.

CONVENTIONAL AMMO STORAGE AREA (IGLOOS), BLGR-027 (#AOC M)

SITE DESCRIPTION

This site is part of eight permanent igloo area sites (Also includes SWMU AOC #M) that were constructed in 1942 and are used for the storage of conventional ammunition. This igloo collapsed when a detonating device exploded.

This site is being rebuilt to be put back into use. This site does not manage waste.

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (sampling site visit, 1997), report 3/1998 .

SITE STATUS

This site is still active and is not eligible for ER,A funding. No further action is required.

MAGAZINE AREA M, BLGR-028 (#AOCN)

SITE DESCRIPTION

Northeast Portion of Facility (north of Big Muddy Creek in restricted area). These twelve (12) warehouses were constructed in 1942 and are used for the storage small arms. The warehouses have concrete floors and drains that discharge to the sanitary sewer.

Currently these sites are active.

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (sampling site visit, 1997), report 3/1998 .

SITE STATUS

This site is still active and is not eligible for ER,A funding. Site does not manage waste. No further action is required.

PINK WATER POND, BLGR-029 (SWMU #003)

SITE DESCRIPTION

This site is located in Demolition Grounds Area (at the intersection of RT. 117 and 110). The Pink Water Ponds were constructed for use in 1976 to hold TNT wastewater discharge during a shakedown run of the new TNT washout facility. The site was filled with native soil in 1980 when the new washout lagoons became operational. Soil and groundwater sampling was conducted and no contamination was found.

Currently this site is inactive.

REFERENCES: Pink Water Ponds (RFI/CMS), Law Environmental, 1989/1990; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 . LTM groundwater commenced 1997. No evidence of contamination.



SITE STATUS

No further action is required.

OPEN DETONATION AREA & M55 DETONATION UNIT, BLGR-030 (SWMU #001)

SITE DESCRIPTION

This site is located in the Demolition Grounds area (within boundary of open detonation area). The M55 Detonation site was a mobile unit that was used to detonate M55 rockets that had been previously drained. The operation occurred between 1982 and 1984 in the demo grounds. Rockets were placed in a 10 foot section of a 16-inch gun tube which was barricaded at each end to contain fragments. Detonation was accomplished by a linear shaped charge placed on the rocket. Rockets were detonated one at a time at a maximum rate of two per day.

Currently this site is active and a RCRA unit and is within the boundary of the OB/OD area.

REFERENCES: Open Detonation Area (RFI/CMS, Law Environmental, 1989/1990; Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998. LTM groundwater commenced at demo grounds 1997. Risk Assessment (Radian, 9/98).

SITE STATUS

This site is still active and RCRA regulated. Not eligible for ER,A funding. A permit is being pursued for site.

BOILER BLOWDOWN DISCHARGE AREAS, BLGR-033 (SWMU #037)

SITE DESCRIPTION

These areas are located in various locations throughout the Facility. Several boiler plants generated process steam at the facility. These units were oil fired and used to heat a few buildings.

These sites are inactive.

REFERENCES: A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; Combined Sites (RFA Phase II sampling , SVE 1994); USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 .

SITE STATUS

No further action is required.



ABOVE GROUND STORAGE TANKS, BLGR-035 (#AOC P)

SITE DESCRIPTION

These tanks were located at various locations throughout facility. There were 46 tanks ranging from 150 to 10,000 gallons that were used for the storage of fuel oil, gasoline and diesel fuel. No contamination was detected during the RFA. Tanks were replaced in the early 1990's. Almost all of the new tanks are double lined with secondary containment. The facility also reduced the number of AST's. Documentation is on file in the BGAD environmental office.



REFERENCES: A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; Yank A Tank Program, files maintained in environmental office; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

No further action is required. Summary letter to KDEP.

LABORATORY AREAS BLDGS 1660 AND 1661, BLGR-037 (#AOC Q)

SITE DESCRIPTION

Northern Portion of Facility (eastern corner of F Area). These are active buildings located on concrete area in F Area. Laboratory chemical wastes goes to 55 gallon disposal drums, which are disposed of off the depot. The buildings have concrete floors that drain to a septic tank.

These sites are currently active. Site does not manage waste.

REFERENCES: A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.



SITE STATUS

This site is still active and is not eligible for ER,A funding. No further action is required. Summary letter to KDEP.

AREA F AREA CHEMICAL AND NERVE AGENT STORAGE IGLOO, BLGR-038 (SWMU #033)

SITE DESCRIPTION

This site is located in the Area F complex. There are 39 ammunition storage igloos used as hazardous waste storage units. Wastes stored in these igloos are shells holding BG agent, VX agent and leaking H-mustard projectiles (1). These igloos are RCRA regulated. Igloo inspections commenced in 1984, by vapor testing air in the igloo. The area is double fenced and operated under high security. Igloo inspection records are maintained in the Chemical Surety office. Decontamination waste storage igloo (F706) records are maintained in the environmental office.

Currently this area is active.

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (sampling site visit, 1997), report 3/1998.

SITE STATUS

This site is still active and is RCRA regulated. Not eligible for ER,A funding. NFA under IRP.

PESTICIDE STORAGE AREA (S-13), BLGR-039 (#AOC R)

SITE DESCRIPTION

This site is located in the Southwest Portion of Facility (Administrative Area). This is an active site 8 by 10 sq ft with concrete floor and no floor drains attachment to building S-13. Area around building S-13 is asphalt. The building is used for storage and mixing of pesticides and herbicides. Most materials are stored in 50-lb bags on pallets or in plastic containers. Pesticides are prepared inside building. There have been no reports of spills.



Currently this site is active.

REFERENCES: A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 . Site was viewed to determine potential for release during USACHPPM site visit. No evidence of contamination/release to environment was noted.

SITE STATUS

This site is still active and is not eligible for ER,A funding. Summary letter to KDEP.

SEPTIC TANKS/LEACHFIELDS, BLGR-040 (SWMU #AOC S)

SITE DESCRIPTION

This site is located just inside F Area. Six 2,000 to 12,500 - gallon septic tanks with tile drainage fields that serve the buildings in the general area of Lake Vega and buildings 1660 and 1661.

Currently these sites are active.

REFERENCES: A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

This site is still active and is not eligible for ER,A funding. No further action is required. SOB Summary letter to KDEP.

ELECTROLYTE STORAGE AREA, BLGR-041 (SWMU #019)

SITE DESCRIPTION

This site is located on Garrad Street (concrete pad at Bldg S-17). This site was previously used for battery storage of less than 90 days and for the conditioning and storage of large batteries. The site was formerly called the Battery Storage Area. Soil sampling by EDGE, 1987 and LAW, 1989 found EP toxicity results below limits for each metal. Total metal analyses performed (at depth of less than 2 ft) detected elevated concentrations of arsenic, barium, lead, mercury, and selenium. These were generally from surficial soils in a small area of the gravel drive adjacent to the asphalt pad and is assumed to result from other activities in the area and not considered representative of the Electrolyte Storage Area (Law, 1990). The site, (including one small, localized area with elevated levels of lead), has been covered with asphalt.



REFERENCES: RFA (LAW, 1990); Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); RFA Phase II sampling - Combined Sites Report (SVE, 1995); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

Confirmatory sampling required for closure. Closure/Summary document to KDEP.

DEFENSE REUTILIZATION MARKETING OFFICE (DRMO), BLGR-042 (SWMU #18)

SITE DESCRIPTION

This site is located in the southwest section of the facility, bounded by Fayette, Clark, Powell, and Garrard Streets. This site has been in use since 1942. Wastes stored at the site include scrap metal and powder cans, ammunition boxes, crates, pallets, raw tin, and projectile shipping tubes. Past storage of some of these wastes were on the ground or graveled area inside the compound. Soil samples were taken by Edge, 1987 and Law, 1990. Elevated levels of metals were detected. No pentachlorophenol was detected. Soil from the site was excavated in 1992 and stockpiled and the storage bins were paved with concrete. Regulatory agency recommended RFA Phase II sampling. RFA Phase II sampling by SVE, 1994 around the perimeter of the site detected low levels of metals below the MCLs. The soil was disposed of at a regulated landfill (1994). Currently area is active.



REFERENCES: RFA (LAW, 1989); Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; DRMO Report (SVE, 1994). USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

SWMU #18 requires closure. The site is not eligible for ER,A funding. Summary letter to KDEP.

CONTAMINATED WASTE PROCESSOR (CWP), BLGR-045 (SWMU #009)

SITE DESCRIPTION

South central section of Facility in demolition grounds area (on the south side of route 110)
The Contaminated Waste Processor was placed into operation in 1983. The operation consists of a furnace, afterburner, a feed system and an air pollution control system (APC). Wastes handled at the facility include empty shell casings, containers or other metal parts that have been in direct contact with explosives, and electronic circuit boards (past practice). This building is said to be located on area were paint filters were disposed in 1973.

Currently this site is active.

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); SI sampling by SVE, 1994; A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

No further action is required. This site is still active and is not eligible for ER,A funding. Summary letter to KDEP.

AREA B, AREA G AND F BLOCK IGLOOS, BLGR-048 (SWMU #039/033/023)

SITE DESCRIPTION

These igloos were constructed in 1942 for the storage of ammunition. The igloos are RCRA Regulated and under interim status. The four igloos in B area stored drums containing TNT contaminated filters and sump sludges from the New TNT Washout (igloo B402), drums of spent activated carbon from the Washout (igloo B404), drums of CWP baghouse dust / incinerator ash (igloo B608) and hazardous waste ash (igloo B612). The two igloos in G area were put into operation in 1982 to store brine solution generated during the DATS brine operation. The brine solution was certified by the facility not to contain detectable levels of GB, H, or VX. There are no known releases from these units.

Igloos B608, B612, G108A and G109A have undergone a RCRA closure.

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (sampling site visit, 1997), report 3/1998.

SITE STATUS

This site is still active and is not eligible for ER,A funding. These are Interim Status RCRA regulated units.

MAINTENANCE SHOPS, BLGR-049 (#AOC T)

SITE DESCRIPTION

These are active buildings used to service vehicles and locomotives. Maintenance activities include oil and anti-freeze changes, brake work and other miscellaneous work required for servicing vehicles and locomotives. The buildings have concrete floors with floor drains connected to the sanitary sewer system. Area around buildings is paved. Materials from operations are disposed of in drums off post.

Currently these sites are active. Site does not manage waste.

REFERENCES: A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 . Site was viewed during USACHPPM site visit to determine release potential. All work is performed inside buildings, no evidence of contamination.

SITE STATUS

No further action is required. This site is still active and is not eligible for ER,A funding.

DERUST/REPAINTING AREAS (BLDG 555, 562), BLGR-051 (SWMU #030)

SITE DESCRIPTION

In this building munitions were derusted in wheelabrators and repainted. Wheelabrator dust was collected in 55-gallon drums and transported to one of the Interim Status Storage Igloos in area B, and filters from each paint booth were disposed at the contaminated waste processor and the General Refuse Incinerator. The building is enclosed and has concrete floors.

Currently this site is active.

REFERENCES: RFI (LAW, 1989); A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; RFA Phase II/ Remedial Action (SVE/CHASE, 1996/1997); USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

This site is not eligible for ER,A funding. No further action is required. Summary letter to KDEP.

RUBBLE PILE, BLGR-052 (SWMU #022)

SITE DESCRIPTION

This site is located northeast of intersection of routes 1 & 10. This site (approximately 1 acre in size) has been used in the past for disposal of construction debris (concrete, asphalt, rebar, and ceramic piping). There is a stream that flows toward Lake Vega adjacent to the site. Surface water sampling conducted by USACHPPM (8/97) detected extremely low levels of barium and zinc. Sediment samples were taken during that time and found very low levels of metals. This area is restricted to the public, depot workers generally would have no reason to have contact with the sediment or surface water around the site. Surface water and sediment associated with this site doesn't impact any critical habitat (USACHPPM, 1997).



Currently this site is being used for storage of gravel for road upgrade work. Regulatory agency recommended no further action. This site does not manage wastes.

REFERENCES: A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 .

SITE STATUS

No further action is required. Summary letter to KDEP.

BUILDINGS 1173, WASTEWATER TREATMENT FACILITY, BLGR-053 (#AOC U)

SITE DESCRIPTION

This site is located adjacent to the Intersection of RT. 3, (north of Lake Vega). Building 1173 treats domestic wastewater using an oxidation ditch and clarifier to serve the 1100-series buildings in the area. The site was built on a portion of the Old TNT Lagoons in 1981. All sludge is recycled, as plant is under loaded. The plant's effluent flows into Big Muddy Creek. Before 1981 an Imhoff tank was used to treat domestic wastewater in this area. No industrial wastes go to the plant, so no hazardous constituent releases are likely (AHEA, 1986). Monthly monitoring reports required via NPDES permit are maintained. Currently this site is active.

REFERENCES: A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

This site is not eligible for ER,A funding. No further action is required.

BUILDING 218, RECEIVING AREA, BLGR-054 (#AOC V)

SITE DESCRIPTION

This site is located in the southwest portion of the facility in the administrative area. This building is the main receiving building for the administrative area of the facility. Area around building is paved. Items / materials are received at the dock area and promptly dispatched to the appropriate buildings. Materials received and handled at this building are office equipment, pesticides, rodenticides, herbicides, paints, cements, nuts, bolts, etc. All work is done inside the building. The building has a concrete floor that drains to a sanitary sewer.

This site is currently active.

REFERENCES: A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998 . This building was inspected during USACHPPM's site visit to determine potential for release/contamination. It was determined no release to the environment.

SITE STATUS

This site is not eligible for ER,A funding. No further action is required.

BUILDING B-51, BLGR-055 (#AOC W)

SITE DESCRIPTION

This site is located in the southwest portion of the facility in the administrative area. Building B-51 is an active site used to store epoxy paints, bituminous sealant, oil-bed paints and obsolete office equipment. The building has concrete floors with no floor drains. Materials are stored on wooden pallets. No evidence of contamination from PA/SI.

Currently this is an active site.

REFERENCES: A Preliminary Site Inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.



SITE STATUS

This site is not eligible for ER,A funding. No further action is required.

DRUM STORAGE TRENCH, BLGR-057 (SWMU #004)

SITE DESCRIPTION

This site is located in the demolition grounds area, south of route 110 near the OB/OD area. The Drum Storage Trench was a man made, hand dug, unprotected trench. A 1983 inventory of the drums showed drums of supertropical bleach, isopropyl alcohol, calcium hypochlorite, solvents, paint thinners, chromic acid, sodium hydroxide, adhesive, diethylenetriamine and tetrachloroethane. Drums have been removed. No evidence of explosives detected from water sampling in 1980, no other documentation of any releases.

Currently this site is inactive.

REFERENCES: Revised RCRA Facility Assessment (RFA), April 1992 by EPA and Kentucky Division of Waste Management and a 1986 visual site inspection (based on an RFA report compiled in 1986 on waste management units and sampling activities at BGAD); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

SITE STATUS

No further action is required.

WATER TREATMENT PLANT DITCH, BLGR-058 (SWMU #020)

SITE DESCRIPTION

This site is located near the intersection of Routes 1 and 10. The Water Treatment Plant Ditch is an unlined ditch which carries clarified solids from the water treatment plant to Lake Buck. The unit is approximately 0.75 miles in length and discharges into Lake Buck. Sampling at the outfall in 1987 detected metals.

Currently this site is active. Regulatory agency recommended RFA Phase II Sampling if sampling results suggest contamination. No further action if the level of metals detected during the 1987 sampling investigation are at or near background levels.

REFERENCES: Law Site Investigation Report (1987); A preliminary site inspection and file review conducted by Advanced Sciences, Inc., 1991; USACHPPM Relative Risk Site Evaluation (site visit, 1997), report 3/1998.

Outfall sampling indicates detection levels to be at background for the site.

SITE STATUS

This site is not ER,A eligible. Soil data will be compared to background data under RCRA.

PAINT FILTER DISPOSAL SITE, BLGR-060 (SWMU #008)

SITE DESCRIPTION

This site is located on the south side of route 110. The Paint Filter Disposal Site is an inactive disposal site that has been capped and revegetated. The paint filters were excavated along with soil and disposed to a regulated site and the Contaminated Waste Processor was constructed over most of the site. An SI conducted sampling around the perimeter of the building and adjacent area in 1994 (SVE) found no contamination. Currently this site is inactive.

REFERENCES: Final Report, Site Investigation Report for the Site Investigation at the Combined Sites, Sve, 1996.



SITE STATUS

No further action is required.

SCHEDULE

PAST MILESTONES

1993

- Scoping was been completed for 14 sites (Temporary H Storage, Paint Filter Disposal, Electrolyte Storage, DRMO Storage Facility, Former Shell Washout Facility, Dry Acid Ponds, Old TNT Lagoon Area, New TNT Washout Facility, New TNT Lagoons, Boiler Blowdown Areas, Old Battery Burial Area (demo grounds), Former Waste Ammunition Detonation, and Mustard Burn Area). Six site investigations commenced (Old and New Landfills, DRMO site, Electrolyte Storage Area, Boiler Blowdown Area, Mustard Burn Area) and two sites RCRA Facility Investigations Phase II's (Dry Acid Ponds and Old TNT Lagoons) have been awarded.

1994\1995

- The Final Draft of the Site Investigation report on the Combined Sites (Temporary H Storage, Paint Filter Disposal, Electrolyte Storage, DRMO Storage Facility and Former Shell Washout Facility) was completed. A Decision Document was prepared for the Combined Sites FY96. A Risk Assessment on the Dry Acid Pond and Old TNT Lagoon Areas was prepared by during FY96. The Old and New Landfills reports will proceed to Remedial Design and Interim Remedial Actions FY95.
- Removal at the Battery Burial Site (Demo Grds) is completed. A decision document will be prepared FY96.

1996

- Final Draft of Risk Assessment for the Old TNT Lagoons area subcontracted out by SVE to Echinfelder Inc., Nashville, Tennessee.
- Contracts awarded to put a RCRA approved caps on the Old and New Landfills, and contract awarded for removal and capping of Dry Acid Ponds.

1997

- Conducted Partnering meetings for Old TNT Lagoons area Final Risk Assessment between Installation, COE, SVE, Echinfelder Inc. and the State regulators.
- Field work completed on capping for the Old and New Landfills.

SCHEDULE

PAST MILESTONES

1997 continued

- Field work completed on removal and backfilling of Dry Acid Ponds.
- Commenced with the Long Term Monitoring for SWMU's. Contracted thru COE's ORD Lab, Cinn. Lab closed FY97, new contract to be awarded FY98.
- Solicitation in local newspaper for interest in RAB. Received three calls from community expressing interest and reporters from the Richmond Register and Lexington Herald Leader interviewing the PAO and environmental office representative for articles in their respective papers.
- Completed all Relative Risk Site Evaluations on non evaluated sites by USACHPPM. Final report by USACHPPM available FY98.

1998

- BGAD and Regulators continue to work on Risk Assessment on the Old TNT Lagoons.
- Facility working with Regulators to obtain a Part B Storage Permit. The permit will include the SWMU's under corrective action section.
- BGAD, regulators and COE working on Comprehensive Groundwater Management Plan and Conceptual Model for swmu sites.
- BGAD, Regulators, COE, Headquarters personnel participated in two day Regional Partnering Meeting in Frankfort, KY.
- Conducted site visits with COE and Federal Facilities Oversight personnel on swmu's assessment.
- Conducted site visits with COE and Federal Facilities Oversight personnel on spring survey.
- BGAD awarded new contract for LTM groundwater wells to International Technology, Inc.
- BGAD Commander and Acting RAB Coordinator completed inquiries / interest and selected persons to serve on it's RAB. Written confirmation mailed to local RAB members. A RAB orientation was held 12/98.
- RAB Coordinator appointed by Commander October 1998.
- A Risk Assessment for the OB/OD area was completed 10/98.

SCHEDULE

PAST MILESTONES, con't

- Funding obligated to COE to award contract on RI/FS for the Former Projectile Burning Area.
- Funding obligated to COE to award contract on RI/FS for the Former Waste Ammo Detonation Area.
- Monthly meetings continued with KDEP to develop NFA reports.
- Contract awarded to International Technology, Inc. to continue with LTM and well maintenance work at SWMUs.
- BGAD, KDEP, COE, IOC and AEC personnel participated in IAP development workshop.
- BGAD and Regulators continue to work on Risk Assessment on the Old TNT Lagoons.
- Facility continuing work with Regulators to obtain a Part B Storage Permit. The permit will include the SWMUs under corrective action section.
- BGAD, regulators and COE working on Comprehensive Groundwater Management Plan and Conceptual Model for SWMU sites.
- BGAD, Regulators, COE, Headquarters personnel participated in two day Regional Partnering Meeting in Frankfort, KY.
- BGAD, Regulators, COE, Headquarters and Contract Personnel developing/revising SWMU Closeout Schedule.
- BGAD, Regulators, COE, Headquarters and Contract Personnel developing/revising Ecological Assessment for sites.

SCHEDULE

PROJECTED MILESTONES

<u>Milestones</u>	<u>Tasks</u>
<u>Fiscal Year 2000</u>	
RI/FS	Final Remedial Investigation Report and Feasibility Study
CMS	Draft CMS Report
Misc Site Reports	Draft Reports
Closure Plan	Draft/Final Plan
Risk Assessment	Final Report
Site Background Study and Report	Final Report
<u>Fiscal Year 2001</u>	
CMS	Final CMS Report
Comprehensive Groundwater Study/Plan	Final Report
Remedy Selection	Record of Decision
Remedy Design	Scope Design / Remedial Design
Eco Assessment	Scope/Work Plan/Draft Report
<u>Fiscal Year 2002-2005</u>	
Long Term Monitoring will be ongoing at the following sites and other restoration sites as well for FY02-05 and after unless it is agreed by the regulatory agency and the installation to decrease the LTM work.	
Fire Training Area	New Landfill
Dry Acid Ponds	Pink Water Ponds
Old Landfill	Open Burn Open Detonation Area
Old TNT Lagoons Area	Propellant Burn Area
Mustard Burn Area	Former Waste Ammunition Detonation Area
Perimeter Wells on facility that feed into these areas	
Eco Assessment	Final Report
SOB/Closure Report	Final Report

BLUE GRASS ARMY DEPOT IRP Schedule

(Based on current funding constraints)

Completed Phase
Underway Phase
Future Phase

FACILITY	DSERTS #	PHASE	FY76-00	FY01	FY02	FY03	FY04	FY05	FY06	FY07+
MUSTARD BURN SITE MUSTARD TRENCHES	BLGR-006	RFA								
		LTM								
FORMER TNT LAGOONS/ HOLDING PONDS (4)	BLGR-012	RFA								
		RFI								
		LTM								
NEW LANDFILL	BLGR-020	RFA								
		RFI								
		LTM								
DEACTIVATION FURNACE BLDG T-273	BLGR-021	RFA								
		RFI								
BATTERY BURIAL #2/OLD LANDFILL (WEST)	BLGR-024	RFA								
		RAC								
		LTM								
FORMER PROJECTILE BURNING AREA	BLGR-031	RFA								
		RFI								
		LTM								
GENERAL REFUSE INCINERATOR STORAGE AREA	BLGR-043	RFA								
		RFI								
		IRA								
DRY ACID POND AREA (2)	BLGR-047	RFA								
		LTM								
FORMER WASTE AMMO DETONATIONS AREA	BLGR-059	RFA								
		RFI								
		IRA								
		LTM								

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

Site, 4. Installation Phase Summary Report

4/10/01

Installation: BLUE GRASS FACILITY-LBAD
Programs: BRAC I, BRAC II, BRAC III, BRAC IV, IRP
Subprograms: Compliance, Restoration, UXO
Installation count for Programs: 1
NPL Options: Delisted, No, Proposed, Yes
Installations count for Programs and NPL: 1
Site count for Programs and NPL: 54

Phase / Status / Sites

	PA					SI				
	C	U	F	RC		C	U	F	RC	
	54	0	0	1		53	0	0	33	
		RI / FS						RD		
	9	7	3	6		1	0	0		
		RA(C)						RA(O)		
	2	2	2	2		0	0	0	0	
					LTM					
				C	U	F	N			
				0	2	7	45			
				Remedy / Status / Sites (Actions)						
				IRA						
		C			U			F		
	5 (5)			1 (1)				1 (1)		
					FRA					
	3 (3)			1 (1)				2 (2)		
RIP Total:	0									
RC Total:	42									

Reporting Period End Date: 03/31/2001

Defense Site Environmental Restoration Tracking System

Site, 9. RISK INSTALLATION ACTION PLAN REPORT												02/05/2001
Installation:	BLUE GRASS FACILITY-LBAD											
Major Command:	AMC											
SubCommand:	OSC											
Program Options:	IRP, BRAC I, BRAC II, BRAC III, BRAC IV											
Subprogram Options:	Compliance, Restoration, UXO											
Site	RRSE	Media Evaluated	Phase (s) Completed	Phase (s) Underway	Phase (s) Future	#IRA Completed	#IRA Underway	#IRA Future	LTM Status	RIP Date	RC Date	
BLGR-001	3A	GW	PA						N		199201	
		WH	SI									
BLGR-002	2A	GW	PA						N		199909	
		SH	SI									
		SL										
		WH										
BLGR-003	NE		PA						N		199201	
			SI									
BLGR-005	2A	GW	PA						N		199909	
		SL	SI									
BLGR-006	3A	GW	PA	RI					F		200011	
		WH	SI									
BLGR-007	NE		PA						N		199201	
			SI									
BLGR-008	NE		PA						N		199203	
			SI									
BLGR-009	NE		PA						N		199203	
			SI									
BLGR-010	1A	SL	PA						N		199506	
			SI									
BLGR-011	2A	SL	PA						N		199203	
			SI									
BLGR-012	3A	GW	PA	RI					F		200109	
		SL	SI									
BLGR-013	3A	SH	PA		RI				N		200110	
		SL	SI									
BLGR-014	3A	GW	PA						N		199201	
		SL	SI									
BLGR-015	3A	GW	PA						N		199201	
		SL	SI									
BLGR-016	3A	SH	PA	RAC					N		200104	
		SL	RI									
		WH	SI									
BLGR-017	NE		PA						N		199201	
			SI									
BLGR-018	NE		PA						N		199201	
			SI									
BLGR-020	1A	GW	PA						U		199909	
		SH	RI									
		SL	SI									
BLGR-021	3A	SL	PA	RI					N		200110	
			SI									
BLGR-022	NE		PA						N		199201	
			SI									
BLGR-023	3A	SH	PA			1			N		199909	
		SL	RI									
			SI									
BLGR-024	1A	GW	PA		RAC	1			F		200012	
		SH	RI									
		WH	SI									
BLGR-027	NE		PA						N		199201	
			SI									
BLGR-028	NE		PA						N		199201	
			SI									

Defense Site Environmental Restoration Tracking System

Site	RRSE	Media Evaluated	Phase (s) Completed	Phase (s) Underway	Phase (s) Future	#IRA Completed	#IRA Underway	#IRA Future	LTM Status	RIP Date	RC Date
BLGR-029	3B	SL	PA						U		199708
		WEF	RI								
			SI								
BLGR-030	3B	SEF	PA						N		199002
			RI								
			SI								
BLGR-031	2A	GW	PA	RI					F		200109
		SH	SI								
		SL									
BLGR-032	3A	GW	PA						N		199909
		SH	RI								
		SL	SI								
BLGR-033	3A	SL	PA						N		199505
			SI								
BLGR-034	3A	SL	PA						N		199909
			SI								
BLGR-035	NE		PA						N		199008
BLGR-037	NE		PA						N		199201
			SI								
BLGR-038	NE		PA						N		199201
			SI								
BLGR-039	NE		PA						N		199205
			SI								
BLGR-040	NE		PA						N		199201
			SI								
BLGR-041	2A	SL	PA	RAC	RI				N		200101
			SI								
BLGR-042	3A	SL	PA			1			N		199410
			SI								
BLGR-043	3A	SL	PA		RI			1	N		200109
			SI								
BLGR-044	3A	SL	PA		RI				N		200103
			SI								
BLGR-045	NE		PA						N		199201
			SI								
BLGR-047	2A	GW	PA			1			F		200008
		SEM	RAC								
		SL	RD								
		WH	RI								
			SI								
BLGR-048	NE		PA						N		199203
			SI								
BLGR-049	NE		PA						N		199201
			SI								
BLGR-050	2A	GW	PA		RAC				F		200106
		SL	SI		RI						
		WH									
BLGR-051	NE		PA						N		199203
			SI								
BLGR-052	3B	WH	PA						N		199201
			SI								
BLGR-053	NE		PA						N		199201
			SI								
BLGR-054	NE		PA						N		199201
			SI								
BLGR-055	NE		PA						N		199201
			SI								
BLGR-056	2A	SL	PA			1			N		200009
			RI								
			SI								
BLGR-057	NE		PA						N		199203
			SI								
BLGR-058	NE		PA						N		199203
			SI								
BLGR-059	1A	GW	PA	RI			1		F		200209
		SL	SI								
		WH									
BLGR-060	3A	SL	PA						N		199708
			RAC								
			SI								
RRSE - Relative Risk Site Evaluation; Risk Category - 1=High, 2=Medium, 3=Low;											
Legal Agreement - A = with agreement, B = without agreement; C = Complete, U = Underway, F = Future, N = Not Applicable											
										Reporting Period End Date: 03/31/2001	

REMEDIATION ACTIVITIES

COMPLETED REM/IRA/RA

Soil Acid Removal, Dry Acid Ponds (BLGR-047) FY96 (Total cost: 1.3K)

Soil Battery Removal, Old Battery Burial Area Demo Grounds (BLGR-023) FY96 (Total cost: 585K)

Two Landfill Caps, Old Landfill (BLGR-02) FY96 (Total cost: 1600K)

USTs were removed with funds under another program.

CURRENT REM/IRA/RA

Funding was received FY01 for an IRA (soil removal and disposal) for BLGR-016 (Old Transfer Storage Area).

FUTURE REM/IRA/RA

Old TNT Lagoon Area

General Refuse Incinerator Area (RFI/REM)

Transformer Storage Area

COST ESTIMATES

PRIOR YEAR FUNDS (1980-1996)

Past, present, and projected funding for Installation Restoration Program activities has been broken down by fiscal year.

FY 81	PRELIMINARY ASSESSMENT	485.8 K
FY 87	RCRA FACILITY INVESTIGATION/ CORRECTIVE MEASURES STUDY (8 SITES)	816.2 K
FY 88	RCRA FI/CMS	796.3 K
FY 89	3 SITES	29.4 K
FY 90	RCRA FI/CMS	20.0 K
FY 93	RI/FS (9 SITES) EXPANDED FEASIBILITY STUDIES AND REMEDIAL DESIGN (5 SITES) LONG TERM MONITORING (2 SITES)	1,090.0 K 1,105.0 K 285.0 K
FY 94	REMEDIAL ACTION (1 SITE) SITE INVESTIGATION (10 SITES) RFI (4 SITES) REMEDIAL DESIGN (4 SITES) RI/FS (6 SITES) SI/RI/FS (UST & AST)	500.0 K 785.0 K 500.0 K 500.0 K 1,550.0 K 550.0 K
FY 95	SI IRA REM SI PHASE II RD	69.0 K 30.0 K 100.0 K 237.0 K 594.4 K
FY 96	RI/FS SI IRA/SA REMEDIAL DESIGN REMEDIAL ACTION	30.0 K 30.0k 5.0k 243.0 K 2,884.0 K

COST ESTIMATES

PRIOR YEAR FUNDS (1997-1999)

FY 97 PY WORK /LONG TERM MONITORING 456.0 K

FY 98 LONG TERM MONITORING /CMS 408.5 K

FY99

BLGR-005	PROJECT CHASE AREA	LTM	26.0K
BLGR-006	MUSTARD BURN SITE/MUSTARD TRENCHES	LTM	50.0K
BLGR-012	FORMER TNT LAGOONS/HOLDING PONDS (4)	RA	40.0K
		LTM	95.4K
BLGR-020	NEW LANDFILL	LTM	94.7K
BLGR-021	DEACTIVATION FURNACE BLDG T-273	LTM	40.0K
BLGR-024	BATTERY BURIAL #2/OLD LANDFILL/(WEST)	LTM	115.4K
BLGR-029	PINK WATER POND	LTM	33.0K
BLGR-030	OPEN DETONATION AREA	LTM	30.8K
BLGR-031	FORMER PROJECTILE PROPELLANT BURN AREA	RI/FS	350.0K
		LTM	50.0K
BLGR-032	NEW PROPELLANT BURN AREA	RI/FS	258.9K
		LTM	58.8K
BLGR-044	BLDG #1178-TRANSFORMER STORAGE	LTM	15.0K
BLGR-047	DRY ACID POND AREA (2)	LTM	32.0K
BLGR-050	WOOD DUMP/KINDLING YARD (FIRE TRNG AREA)	LTM	30.0K
BLGR-059	FORMER WASTE AMMO DETONATION AREA	LTM	30.0K
	RAB SUPPORT	RAB	5.0K

TOTAL 1999 FUNDING: 1,329.5K

2000 FUNDING: 1,364.7K

TOTAL FUNDING 1981-2000: 16793.8K

BLUE GRASS ARMY DEPOT - 2001 PROGRAMMED COST-TO-COMPLETE

DSERTS #	SITE DESCRIPTION	RRSE	PHASE	2001	2002	2003	2004	2005	2006	2007+	SITE TOTAL
BLGR-006	MUSTARD BURN SITE/MUSTARD TRENCHES	LOW	LTM	24							24
BLGR-012	FORMER TNT LAGOONS/HOLDING PONDS (4)	LOW	RI	275							
			LTM	11	11	16	11	11	11	270	616
BLGR-020	NEW LANDFILL	HIGH	LTM	30	25	25	25	25	25	628	783
BLGR-021	DEACTIVATION FURNANCE BLDG T-273	LOW	RI	5							5
BLGR-024	BATTERY BURIAL #2/OLD LANDFILL/(WEST)	HIGH	RAC	324							
			LTM	19	19	26	19	19	19	531	976
BLGR-031	FORMER PROJECTILE PROPELLANT BURN AREA	MED	RI	135							
			LTM	25	25	15	12	12	12	184	420
BLGR-043	BLDG #T-252, GENERAL REFUSE INC/STO AREA	LOW	RI	10							
			IRA	20							30
BLGR-047	DRY ACID POND AREA (2)	MED	LTM	36	36						72
BLGR-059	FORMER WASTE AMMO DETONATION AREA	HIGH	RI	570							
			IRA	648							
			LTM			35	30	30			1313
TOTALS				\$2,132	\$116	\$117	\$97	\$97	\$67	\$1,613	\$4,239

COMMUNITY INVOLVEMENT

RESTORATION ADVISORY BOARD (RAB) STATUS

A fifteen person RAB was established in December 1998 for the environmental restoration cleanup of BGAD. Bi-monthly meetings include activities such as installation tours, finalization of the RAB by-laws, presentations by IOC, BGAD, environmental contractors, and KDEP personnel. The installation also provides fact sheets and provides copies of site documents to RAB members. Community members are invited to all RAB meetings and several have attended.

BGAD will publish a RAB newsletter for the local and surrounding areas during the 3rd quarter of FY00.

There is a Citizen's Advisory Committee, appointed by the governor, for chemical demilitarization related issues.

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

Installation, 7. RAB REPORT

02/05/2001

Command: AMC SubCommand OSC

Installation: BLUE GRASS FACILITY-LBAD

RAB Established Date: 199812

Reason RAB Not Establish:

RAB Adjourned Date:

Reason RAB Adjourned:

TRC Date:

RAB Community Members:

Total RAB Community Members: 7

Business Community

RAB Government Members:

Total RAB Government Members: 12

Environmental Protection Agency

RAB Activities:

Advice On Scope/Sch Studies/Cleanup

RAB Advice

Remedy Selection

TAPP Application Approval Date:

TAPP Project Title:

03/31/2001

TAPP Project Description:

Work Plan Priorities

Purchase Order

Award Number

Award Date

Completion Date