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
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.
<table>
<thead>
<tr>
<th>Name</th>
<th>Organization/Department</th>
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<tbody>
<tr>
<td>Ahmad (Eddie) Allameh</td>
<td>Kentucky Department of Environmental Protection - Risk Assessment Branch</td>
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<tr>
<td>Jim Beaujon</td>
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<td>Dr. David Brancato</td>
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<td>Bob Whelove</td>
<td>Industrial Operations Command</td>
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<tr>
<td>Todd Williams</td>
<td>Blue Grass Army Depot</td>
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APPROVAL

Jackey L. Edwards
COL
Blue Grass Army Depot

Mary Murray
Remedial Project Manager
Blue Grass Army Depot

Leslie Remkey
Environmental Coordinator
Blue Grass Army Depot

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Operations Support Command

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JEWEL SIMMONS  
ARMY MATERIEL COMMAND  
Environmental Restoration Program Manager,  
Office of the Deputy Chief of Staff for Engineering,  
Housing, Environmental, and Installation Logistics
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
ERA Environmental Restoration, Army (formerly DERA)
FFA Federal Facility Agreement
FORSOM 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
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<td>VOCs</td>
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SUMMARY

STATUS: Non-NPL with RCRA Interim Status, (Part B Pending)

TOTAL # OF DSERTS SITES: 54
ACTIVE ERA SITES: 11
RESPONSE COMPLETE (RC) SITES: 43

DIFFERENT SITE TYPES:
- 15 Storage\Packaging Areas
- 8 Ammo (Detonation\Destruction\Burn) Areas
- 7 Treatment\Washout Facility Areas
- 5 Derusting\Painting\DMIL Areas
- 7 Landfills\Disposal Areas
- 4 Lagoons\Pond Areas

- 2 Tank (UST’s\AST’s) Areas
- 2 Testing (Surveillance\Tracer) Areas
- 1 Training (Fire\Gun) Areas
- 1 Boiler Blowdown Areas
- 1 Maintenance Shop 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
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.
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.
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.
PREVIOUS STUDIES

1980

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

1983

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

1989

1990


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.
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.


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 Envn., Inc.
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.

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

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.
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.

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.

PROPOSED PLAN

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

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

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PROJECTED TOTAL: $ 616,000

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.

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 ft $^2$ 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.

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..

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.

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

- **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**

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**PROJECTED TOTAL:** $783,000

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.

PROGRAMMED COST TO COMPLETE

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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
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 disposed 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.

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.

PROGRAMMED COST TO COMPLETE

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PROJECTED TOTAL: $976,000

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.

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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 PROPELLENT 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.

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
SWMUNUMBER: AOC #0

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.

PROGRAMMED COST TO COMPLETE

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PROJECTED TOTAL: $30,000

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.

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, repainting 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.

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),

PROGRAMMED COST TO COMPLETE

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PROJECTED TOTAL: $72,000
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.

Long term monitoring will continue.

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).
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

**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.

**PROGRAMMED COST TO COMPLETE**

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**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.


**Site Status**

No further action is required. Memo to file.

---

Projectile Demil 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.


**Site Status**

No further action is required. Memo to file.
This site is located south of Lake Vega. During 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.


SITE STATUS

No further action is required. Summary letter to KDEP.
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.


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.
SITE DESCRIPTION

This site is located south of Lake Vega. Operations began in 1976 and are currently ongoing. Activities include 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.


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.


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.


SITE STATUS

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


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.


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.


**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.


**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.


**SITE STATUS**

No further action is required. Summary letter to KDEP.

---

**LABORATORY AREAS BLDS 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.


**SITE STATUS**

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


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

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.

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.


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.
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.


SITE STATUS

SWMU #18 requires closure. The site is not eligible for ERA 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, after-burner, 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.


SITE STATUS

No further action is required. This site is still active and is not eligible for ERA 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.


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.
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.


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.


SITE STATUS

No further action is required. Summary letter to KDEP.
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.


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.


SITE STATUS

This site is not eligible for ERA 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.


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.


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.


SITE STATUS

No further action is required.
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.
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 Oversite personnel on swmu’s assessment.

• Conducted site visits with COE and Federal Facilities Oversite 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.
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.
# PROJECTED MILESTONES

<table>
<thead>
<tr>
<th>Milestones</th>
<th>Tasks</th>
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<tbody>
<tr>
<td><strong>Fiscal Year 2000</strong></td>
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<tr>
<td>RI/FS</td>
<td>Final Remedial Investigation Report and Feasibility Study</td>
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<td>CMS</td>
<td>Draft CMS Report</td>
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<tr>
<td>Misc Site Reports</td>
<td>Draft Reports</td>
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<tr>
<td>Closure Plan</td>
<td>Draft/Final Plan</td>
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<td>Risk Assessment</td>
<td>Final Report</td>
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<td>Site Background Study and Report</td>
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<td>Remedy Design</td>
<td>Scope Design / Remedial Design</td>
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<tr>
<td>Eco Assessment</td>
<td>Scope/Work Plan/Draft Report</td>
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<td><strong>Fiscal Year 2002-2005</strong></td>
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<td>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.</td>
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<tr>
<td>Fire Training Area</td>
<td>New Landfill</td>
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<tr>
<td>Dry Acid Ponds</td>
<td>Pink Water Ponds</td>
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<td>Old Landfill</td>
<td>Open Burn Open Detonation Area</td>
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<td>Old TNT Lagoons Area</td>
<td>Propellant Burn Area</td>
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<td>Mustard Burn Area</td>
<td>Former Waste Ammunition Detonation Area</td>
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<td>Perimeter Wells on facility that feed into these areas</td>
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<tr>
<td>Eco Assessment</td>
<td>Final Report</td>
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<td>SOB/Closure Report</td>
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# BLUE GRASS ARMY DEPOT IRP Schedule

(Based on current funding constraints)

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<th>FACILITY</th>
<th>DSERTS #</th>
<th>PHASE</th>
<th>FY76-00</th>
<th>FY01</th>
<th>FY02</th>
<th>FY03</th>
<th>FY04</th>
<th>FY05</th>
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<td>MUSTARD BURN SITE</td>
<td>BLGR-006</td>
<td>RFA</td>
<td>LTM</td>
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**DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM**

**Site, 4. Installation Phase Summary Report**

**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

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**RIP Total:** 0

**RC Total:** 42

**Reporting Period End Date:** 03/31/2001
## 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

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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

**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
## PRIOR YEAR FUNDS (1980-1996)

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

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## COST ESTIMATES

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**TOTAL 1999 FUNDING: 1,329.5K**

**2000 FUNDING: 1,364.7K**

**TOTAL FUNDING 1981-2000: 16793.8K**
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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

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: 03/31/2001
TAPP Project Title: 
TAPP Project Description: 
Work Plan Priorities
Purchase Order
Award Number Award Date Completion Date