

FY2012

ROCK ISLAND ARSENAL
Army Defense Environmental Restoration Program
Installation Action Plan

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Statement of Purpose

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

In an effort to coordinate planning information between the restoration manager, Installation Management Command (IMCOM), the US Army Environmental Command (USAEC), Rock Island Arsenal (RIA), the executing agencies, regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules, and budgets for all major Army installation cleanup programs.

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

Acronyms

| | |
|--------|--|
| ACL | Alternative Concentration Limit |
| AEDB-R | Army Environmental Database - Restoration |
| AOC | Area of Concern |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act |
| CMS | Corrective Measures Study |
| COC | Contaminants of Concern |
| CR | Compliance Restoration |
| CTC | Cost-to-Complete |
| CTT | Closed, Transferring and Transferred |
| DD | Decision Document |
| DES | Design |
| EE/CA | Engineering Evaluation/Cost Analysis |
| EOD | Explosive Ordnance Disposal |
| ER,A | Environmental Restoration, Army |
| FRA | Final Remedial Action |
| FS | Feasibility Study |
| FY | Fiscal Year |
| GWCI | Groundwater Classification Investigation |
| HDPE | High Density Polyethylene |
| HHRA | Human Health Risk Assessment |
| HQ | Headquarters |
| IAP | Installation Action Plan |
| IEPA | Illinois Environmental Protection Agency |
| IMCOM | Installation Management Command |
| IRA | Interim Remedial Action |
| IRP | Installation Restoration Program |
| ITR | Internal Technical Review |
| K | thousand |
| LTM | Long-Term Management |
| LUC | Land Use Control |
| LUCIP | Land Use Control Implementation Plan |
| MC | Munitions Constituents |
| MD | Munitions Debris |
| MEC | Munitions and Explosives of Concern |
| MMRP | Military Munitions Response Program |
| MNA | Monitored Natural Attenuation |
| MOA | Memorandum of Agreement |
| MPPEH | Munitions Potentially Presenting an Explosive Hazard |
| MRSPP | Munitions Response Site Prioritization Protocol |
| N/A | Not Applicable |
| NFA | No Further Action |
| NHL | National Historic Landmark |
| NPDES | National Pollutant Discharge Elimination System |
| NPL | National Priority List |
| NRHP | National Register of Historic Places |

Acronyms

| | |
|-------------|---|
| ODUSD (I&E) | Office of the Deputy Under Secretary of Defense for Installations and Environment |
| PA | Preliminary Assessment |
| PAH | Polynuclear Aromatic Hydrocarbons |
| PBA | Performance-Based Acquisition |
| PBC | Performance-Based Contract |
| PCB | Polychlorinated Biphenyl |
| PNA | Polynuclear Aromatic |
| POL | Petroleum, Oil and Lubricants |
| POTW | Publicly Owned Treatment Works |
| RA | Remedial Action |
| RA(C) | Remedial Action (Construction) |
| RA(O) | Remedial Action (Operation) |
| RAB | Restoration Advisory Board |
| RC | Response Complete |
| RCRA | Resource Conservation and Recovery Act |
| RD | Remedial Design |
| RFI | RCRA Facility Investigation |
| RI | Remedial Investigation |
| RIA | Rock Island Arsenal |
| RIP | Remedy-in-Place |
| ROD | Record of Decision |
| RRSE | Relative Risk Site Evaluation |
| SI | Site Inspection |
| SVE | Soil Vapor Extraction |
| SVOC | Semi-Volatile Organic Compound |
| TACO | Tiered Approach to Corrective Action Objectives |
| TACOM | Tank-Automotive and Armaments Command |
| TAPP | Technical Assistance for Public Participation |
| TBD | To Be Determined |
| TMP | Technical Management Plan |
| TRC | Technical Review Committee |
| USACE | US Army Corps of Engineers |
| USACHPPM | US Army Center for Health Promotion and Preventive Medicine |
| USAEC | US Army Environmental Command |
| USAEHA | US Army Environmental Hygiene Agency |
| USATHAMA | US Army Toxic and Hazardous Materials Agency |
| USEPA | US Environmental Protection Agency |
| UST | Underground Storage Tank |
| UXO | Unexploded Ordnance |
| VA | US Department of Veterans Affairs |
| VOC | Volatile Organic Compound |

Installation Information

Installation Locale

Installation Size (Acreage): 866.5

City: Rock Island

County: Rock Island

State: Illinois

Other Locale Information

The Rock Island Arsenal (RIA), located in Rock Island County, Illinois, is a 946.3-acre island in the Mississippi River. The US Army Corp of Engineers (USACE) occupies 9.5 acres, the Veteran's Administration (VA), which includes a cemetery, occupies 70.3 acres, and the RIA occupies 866.5 acres. The Iowa cities of Davenport (population 100,827) and Bettendorf (population 32,584) are located immediately north, across the Mississippi River. The Illinois cities of Rock Island (population 38,139) and Moline (population 43,088) are located immediately south of the RIA and are separated by a channel of the Mississippi River called the Sylvan Slough and the Moline Pool.

Installation Mission

The mission of the RIA is to manufacture artillery, gun mounts, recoil mechanisms, small arms and spare parts, perform tool set and basic issue items fabrication and assembly. RIA also provides administrative, logistical, and facility support services for various tenants. These tenants include the Joint Manufacturing and Technology Center (JMTC), US Army Joint Munitions Command (JMC), First Army, Army Sustainment Command, US Army Acquisition Support, Edgewood Chemical Biological Center (ECBC) and Navy Surface Warfare Center Div (LOGCON).

Lead Organization

Lead Executing Agencies for Installation

HQ USAEC

RIA

Regulator Participation

State Illinois Environmental Protection Agency (IEPA)

National Priorities List (NPL) Status

ROCK ISLAND ARSENAL is not on the NPL

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

The community has expressed no sufficient, sustained interest in a RAB.

Installation Program Summaries

IRP

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

Affected Media of Concern: Groundwater, Soil, Surface Water

CR

Primary Contaminants of Concern: Metals, Volatiles (VOC)

Affected Media of Concern: Groundwater

5-Year / Periodic Review Summary

5-Year / Periodic Review Summary

| Status | Start Date | End Date | End FY |
|---------|------------|----------|--------|
| Planned | 201409 | 201909 | 2019 |

5-Year / Periodic Review Details

| Associated ROD/DD Name | Sites |
|------------------------|---------|
| RIA-001 - Old Landfill | RIA-001 |

Cleanup Program Summary

Installation Historic Activity

RIA is an active IMCOM installation located on Arsenal Island which is about three miles long and three-quarters of a mile wide. It is bound on the north by the Mississippi River and the south by a channel of the Mississippi River called the Sylvan Slough and Moline Pool. Arsenal Island is divided into RIA, USACE, and the VA. The VA portion includes the National Cemetery of 70.3 acres and a Confederate Cemetery of three acres.

Arsenal Island is in the center of the Quad Cities region, surrounded on all sides by the four cities of Davenport, Bettendorf, Rock Island and Moline. Land use in the cities consists of retail, services, administrative, industrial, transportation, wholesaling, warehousing, communications, utility, recreation, exhibition, conservation, and a cemetery.

Arsenal Island has been owned and operated by the government since the US acquired the title to the land in 1804 through a treaty with the Sauk and Mesquakie (Fox) Indians. The US flag flew above the island long before any of the communities of the surrounding area were founded. Even before Illinois and Iowa achieved statehood, the US Army established a significant military presence on the island with the building of Fort Armstrong in 1816. The fort served as a sanctuary to early pioneers who sought refuge behind its walls during the threatening days of the early frontier.

In July 1862 the US Congress passed an act which established an arsenal on Rock Island; however, prior to the construction of permanent arsenal buildings, the US Army began building a prisoner-of-war camp on the island. A total of 12,192 Confederate Soldiers were confined at Rock Island during the Civil War years of 1863 to 1865. Construction of the first manufacturing shop buildings began in 1866 and continued until the last, the Stone Shop, was completed in 1893.

Arsenal Island and the swing span bridge leading to it were nominated to the National Register of Historic Places (NRHP) as an historic district in 1969. The State Historic Preservation Officer met with the officials from RIA in 1988 to establish contributing structures within the NRHP District.

The historic nineteenth century manufacturing core of RIA was further designated a National Historic Landmark (NHL) District in 1987. The NHL District is composed of two distinct zones: the nineteenth century manufacturing core (Zone 1), and the officers quarters (Zone 2).

The arsenal has evolved over the years into a center of technical excellence for weaponry and support equipment.

Completion of the renovation of the armament manufacturing (1982-1989) greatly enhanced the physical plant, machine tool inventory, and data processing capabilities. RIA's tenants include: the US Army Joint Manufacturing and Technology Center; the US Army Joint Munitions Command; Headquarters, First Army; Headquarters, US Army Sustainment Command; Rock Island Contracting Center; the and the US Army Edgewood Chemical and Biological Center; and the Navy Surface Warfare Center Div (LOGCON).

The USACE owns and operates Lock and Dam No. 15 and maintains a district office on Arsenal Island which is responsible for the administration of federal water resource development programs in Iowa, Illinois, Wisconsin, Missouri, and Minnesota.

The VA maintains two cemeteries on Arsenal Island. The National Cemetery, located on the eastern end of Arsenal Island, inter US military veterans, spouses and dependent children. The Confederate Cemetery, situated near the southern border of the island, contains the remains of 1,959 prisoners who died on Arsenal Island during the Civil War.

Installation Program Cleanup Progress

IRP

Prior Year Progress: Conduct interim measures at old landfill. Perform remedial investigation (RI)/feasibility study (FS) at RIA-007. Close out Underground Storage Tank (UST) 34. Long-term management (LTM) at CC-RIA-64, -65, -69.

Future Plan of Action: Monitoring interim measures at the old landfill. Conducting additional groundwater investigation at the old landfill. Implement remedy-in-place (RIP) at RIA-007. LTM for CC-RIA-64, -65, and -69.

CR

Prior Year Progress: As part of a new performance-based acquisition (PBA), continued LTM will occur with two additional monitoring wells installed and bioremediation.

Cleanup Program Summary

Future Plan of Action: Continue LTM.

ROCK ISLAND ARSENAL
Army Defense Environmental Restoration Program
Installation Restoration Program

IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 30/28

Installation Site Types with Future and/or Underway Phases

- 1 Landfill
(RIA-001)
- 1 Soil Contamination After Tank Removal
(RIA-014)

Most Widespread Contaminants of Concern

Metals, Pesticides, Petroleum, Oil and Lubricants (POL), Polychlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern

Groundwater, Soil, Surface Water

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

| Site ID | Site Name | Action | Remedy | FY |
|---------|------------------------------|--------|---|------|
| RIA-002 | USTs 8,9,10,11 at BLDG 222 | FRA | WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS | 1988 |
| RIA-014 | UST (34) | IRA | WASTE REMOVAL - DRUMS, TANKS, BULK CONTAINERS | 1992 |
| RIA-008 | OLD QUARRY FILLED WITH WATER | FRA | REMOVAL | 2003 |
| RIA-014 | UST (34) | FRA | WASTE REMOVAL - SOILS | 2011 |

Duration of IRP

Date of IRP Inception: 197902

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201910/202110

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

IRP Contamination Assessment

Contamination Assessment Overview

The RA has a total of 30 sites of environmental concern. These sites include industrial and construction debris landfills, storage tanks, a quarry, a training area, storage areas and burial sites. There are presently five open sites and 21 sites in operation that are not Environmental Restoration, Army (ER,A) eligible. Eighteen of these were accumulation areas in operation during the survey. Currently, there are 15 accumulation areas in operation. Two sites became ER,A eligible, one in fiscal year FY09 and one in FY10. The remaining six sites have achieved NFA, although one is awaiting final documentation from the IEPA. Currently, the IEPA is requesting that five of the previously closed sites be reopened due to a lack of closure documentation from the IEPA.

Since the early-1900s, over 40 USTs have been installed at RA. The USTs have been used to store a variety of fuels and solvents, including diesel fuels, gasoline, kerosene, dry cleaning solvent, used oil and used water-soluble cutting fluids. To date, 33 USTs have been removed and seven USTs are being used. Of the remaining seven US Environmental Protection Agency (USEPA)-compliant USTs, one is used for gasoline, two for diesel fuel, one for used water-soluble cutting fluid, one for used oil, and two as reserve for quench oil emergency fire suppressant. There are also various aboveground diesel fuel storage tanks used for heating and for emergency power.

During the removal of USTs 8, 9, 10, and 11, soils contaminated with chlorinated solvents were identified. The soil in the immediate area was removed and monitoring wells were installed downgradient. No further contamination of this site (RA-002) has been observed.

In 1979, an installation assessment of the RA was conducted by the US Army Toxic and Hazardous Materials Agency (USATHAMA). This assessment was to evaluate the environmental quality of RA with regard to the use, storage, treatment, and disposal of toxic and hazardous materials and define any conditions that may adversely affect health and welfare or result in environmental degradation. Twenty-nine sites were listed as potentially contaminated. (This list has been narrowed down to the two open sites: the plume from an underground tank removal south of Building 250 and the Old Landfill site.)

In 1987 an update of the initial assessment of RA was conducted to determine if conditions had changed. This report indicated a clay cap had been placed over the landfill; however, the need to investigate all contaminates is required by the Army. At this point, the two remaining sites became part of the RA Restoration IAP for cleanup.

A groundwater monitoring well inventory conducted in the first quarter of 2009 determined that there are a total of 131 viable monitoring wells on RIA. The wells are associated with the landfills, the POL/UST areas, the quarry, Building 64 Resource Conservation and Recovery Act (RCRA) closure, and background areas. After the major Mississippi River flood in 1993, all of the monitoring wells were sampled, which indicates changes from previous sampling results. The area of major concern is the landfill, site RIA-001, because of SVOCs. The results identified an increased potential for off-site contamination and ER,A funding was available for the phase II RI, a draft FS, technical management plan (TMP) phase II RA with a risk assessment and a groundwater classification investigation (GWCI). The TMP is useful for future investigations requiring only modifications and updating. The TMP, which includes the Community Relations Plan, was completed in FY97. In April 2009 the Silurian Aquifer beneath the Old Landfill site was designated as site RIA-001A for investigative purposes. Groundwater monitoring wells were installed into the aquifer at the Old Landfill in February 2011 and a year of quarterly GW sampling has follow.

The GWCI was completed in November 1997 and is being used for determining the basic cleanup objectives, not only for the landfill site, RIA-001, but for all sites on the RIA.

RIA is currently a large-quantity, 90-day generator of hazardous waste. A Part B permit application was withdrawn and the hazardous waste container storage unit was properly closed. It is now used as an accumulation area. The RIA water treatment facility processes Mississippi River water. Modifications which allow the use of chlorine and ammonia as disinfectant were completed in 1995. The modified potable water treatment plant has been in compliance since its inception.

RIA sends its sanitary effluent to the city of Rock Island publicly owned treatment works (POTW); the permit with the city includes total effluent and two pretreatment industrial wastewater facilities. The RIA has a general National Pollutant Discharge Elimination System (NPDES) permit for storm water. The RIA has a Nuclear Regulations Commission materials license for storage and usage of radioactive material. The main sources are thorium and tritium.

RIA has one IEPA air permit for 19 processes with a total of 94 air emission sources. The permit was submitted under the Title V section of the Clean Air Act. The Title V application was approved by the IEPA for use as blanket coverage for all air emission sources on RIA as listed in the application until the permit was approved in 2001. RIA submitted a renewal for its Title V Permit in August 2006. This renewal is currently under review by the USEPA.

IRP Contamination Assessment

Contamination Assessment Overview

The small business performance-based contract (PBC) that was awarded in September 2004 has expired. A new PBA was contracted in 2011. The PBA includes groundwater treatment studies, bank revetment, cover, in situ treatment, compliance sampling and removal of three storm water lines that traverse the landfill. Upon its successful completion, RC will be achieved for soils and RIP for groundwater. LTM, which includes LUCs, is expected. The Army and the IEPA have entered into a Dispute Resolution Agreement which outlined the soil remediation for the landfill. The groundwater remediation path forward will be determined at a later date.

An RI for Site 014, UST-34 was approved by the USEPA in January 2008. The Final FS will be written and submitted to the state. The site is expected to be closed.

Cleanup Exit Strategy

A PBA is being awarded in 2011 to complete the RA phase of the restoration program at RIA. The contractor will complete a focused feasibility study (FFS) for Site RIA-001, the Old Landfill, and an FS for the Site RIA-014, the former UST 34.

The remedy for the Old Landfill (RIA-001) will be a cover, river bank revetment, storm water line removal, in situ treatment, and vegetation planting and LUC. The expected remedy for site UST-34 (RIA-014) is NFA with possible LUC.

The results of the preliminary assessment (PA) for RIA-001A have shown that the Silurian Aquifer showed landfill contamination. A site inspection (SI) is being completed in FY11 to determine any landfill contamination in the aquifer.

IRP Previous Studies

| Year | Title | Author | Date |
|------|---|---|----------|
| 1979 | Water Pollution Study for RIA | USACE, Contractor: Harland Bartholomew and Associates | MAR-1979 |
| | Installation Assessment of Rock Island Arsenal Report No. 164. | US Army Toxic and Hazardous Materials (USATHAMA) | DEC-1979 |
| 1988 | Interim Report, Groundwater Contamination Survey No. 38-26-0308-89, Evaluation of Solid Waste Management. | US Army Environmental Hygiene Agency (USAEHA) | MAY-1988 |
| 1989 | Geohydrologic Study No. 38-26-8814-90, RCRA Facility Assessment Sampling Investigation, RIA. | USAEHA | MAY-1989 |
| 1991 | POL Facility Investigation of Leaking Underground Storage Tanks, RIA. | Daily and Associates, D&A | MAY-1991 |
| 1992 | Guidance Document for Renovation/Demolition of Buildings 65 and 106, RIA | COE Contractor: TCT-St. Louis, St. Louis, Missouri | JAN-1992 |
| | Site Investigation in Support of the Closure of the Building 33 Hazardous Waste Management Unit, RIA. | Daily and Associates, D&A | FEB-1992 |
| | Building 251/254 Site Investigation (Former TNT Building), Rock Island Arsenal Final Report | Daily and Associates, D&A | MAY-1992 |
| 1993 | Specification Number 3230-2008. PR Number 8-91, Environmental Cleanup Buildings 64, RIA | COE Contractor: TCT-St. Louis, St. Louis, Missouri | MAY-1993 |
| | Addendum No. 1 Site Investigation in Support of Closure of the Building 33 Hazardous Waste Management Unit, RIA | Daily and Associates, D&A | DEC-1993 |
| 1994 | Groundwater Quality Consultation No. 38-66-kv27-94, Phase I & II, RIA 13-18 September 1993 and 1-5 | USAEHA | FEB-1994 |
| 1996 | Installation Assessment Relook Program, Working Document. | USATHAMA | AUG-1996 |
| 1997 | Technical Management Plan for the RIA | SAIC | MAY-1997 |
| | Phase I Remedial Investigation Report, Old Landfill, RIA. | USACE Contractor: Maxim Technologies Inc., St. Louis, MO | MAY-1997 |
| | Installation Restoration Program, Community Relations Plan | SAIC | AUG-1997 |
| 1998 | Update of the Initial Installation Assessment of RIA. | USATHAMA | JUL-1998 |
| 1999 | Extended Site Inspection Report, the Old Quarry Site | US Army Center for Health Promotion and Preventative Medicine | SEP-1999 |
| | Phase II Remedial Investigation Report, Old Landfill, RIA. | USACE Contractor: SAIC | DEC-1999 |

IRP Previous Studies

| Year | Title | Author | Date |
|------|--|---|----------|
| 2000 | Remedial Investigation, Old Quarry Site | US Army Center for Health Promotion and Preventative Medicine | JUL-2000 |
| 2001 | Work Plan for Additional Investigations in Support of the FS at the RIA Old Landfill | SAIC | JUL-2001 |
| | Well Installation Plan for the RIA Time Critical Removal Action for LNAPL | USACE: Tetra Tech NUS | JUL-2001 |
| 2002 | Phase I Remedial Investigation Report and Proposed Phase II Sampling UST 34, Old Landfill, RIA | Daily and Associates, D&A | MAR-2002 |
| | Mussel Survey in Sylvan Slough RIA Old Landfill - Final | SAIC | AUG-2002 |
| | EE/CA for Quarry | Installation | AUG-2002 |
| | Phase I Remedial Investigation Report and Proposed Phase II Sampling UST 34, Old Landfill, RIA. | Daily and Associates, D&A | SEP-2002 |
| | Soil Vapor Extraction Pilot Test Summary Report, Landfill | Installation | SEP-2002 |
| | Addendum to the Ecological risk Assessment | Unknown | OCT-2002 |
| | Addendum to the Data Summary Report for Add. Investigation of the FS | Unknown | NOV-2002 |
| | Work Plan Amendment no. 3 for the POC Sampling, | Unknown | DEC-2002 |
| 2003 | Additional Investigation Report for the Old Landfill | SAIC | MAY-2003 |
| | RA Safety and Health Plan, Quarry | RIA | JUL-2003 |
| | Data Summary Report for Year 2002/2003 Point of Compliance Monitoring at the Rock Island Arsenal Old Landfill | SAIC | AUG-2003 |
| | Passive Soil Vapor Test Report to IEPA | RIA | AUG-2003 |
| | Final Addendum to the Ecological Risk Assessment for the Old Landfill | SAIC | DEC-2003 |
| 2004 | Removal Action Report for the Old Quarry | Tetra Tech NUS | FEB-2004 |
| | Removal Action Report for the Old Quarry | Tetra Tech NUS | APR-2004 |
| 2005 | Phase II RI for RIA-014 (UST 34) | Daily and Associates | FEB-2005 |
| | Data Summary Report for Year 2004 Point of Compliance Monitoring at the Rock Island Arsenal Old Landfill | SAIC | MAY-2005 |
| | Summary Interim Report, Environmental Evaluation and Site Closure Activities for the Remediation of RIA-0014 (UST-34) | TolTest | MAY-2005 |
| | Final Second Summary Interim Report, Environmental Evaluation and Site Closure Activities for the Remediation of RIA-0014 (UST-34) | TolTest | NOV-2005 |
| 2006 | 2005 Fourth Quarter (October) Deep Monitoring Well | | MAR-2006 |

IRP Previous Studies

| Year | Title | Author | Date |
|------|--|--|----------|
| 2006 | Sampling and Analysis Results for the Rock Island Arsenal Old Landfill | | |
| | Data Summary Report for Year 2005 Point of Compliance Monitoring at the Rock Island Arsenal Old Landfill | ToITest | MAR-2006 |
| 2007 | | | |
| | RI Report RIA-014 (UST 34) | FOTH | MAY-2007 |
| 2008 | | | |
| | Data Summary Report for Year 2007 Point of Compliance Monitoring at the Rock Island Arsenal Old Landfill | ToITest, Inc | FEB-2008 |
| 2010 | | | |
| | Old Landfill Silurian Aquifer Groundwater Sampling | Foth Infrastructure & Environmental, LLC | MAR-2010 |
| | Feasibility Study for Old Landfill RIA-001 (Army Approved) | ToITest | JUN-2010 |
| | Feasibility Study for RIA-014 | ToITest | JUN-2010 |
| | 1st Quarterly GW Sampling RIA-14 | ToITest | SEP-2010 |
| | 2nd Quarterly GW Sampling RIA-14 | Foth | DEC-2010 |

ROCK ISLAND ARSENAL
Installation Restoration Program
Site Descriptions

Site ID: RIA-001
Site Name: OLD LANDFILL

STATUS

Regulatory Driver: CERCLA

RRSE: HIGH

Contaminants of Concern: Metals, Pesticides, Petroleum, Oil and Lubricants (POL), Polychlorinated Biphenyls (PCB), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil, Surface Water

| Phases | Start | End |
|------------------|-------------|--------|
| PA..... | 197902..... | 197912 |
| SI..... | 198805..... | 198805 |
| RI/FS..... | 201510..... | 201610 |
| RD..... | 201610..... | 201709 |
| RA(C)..... | 201303..... | 201910 |
| RA(O)..... | 201407..... | 202110 |
| LTM..... | 202110..... | 204309 |
| RIP Date: | 201910 | |
| RC Date: | 202110 | |

SITE DESCRIPTION

The Old Landfill occupies approximately 20 acres in the south central part of RIA. Historical records indicate that a variety of wastes generated by the industrial processes at RIA were potentially disposed of in the Old Landfill during its active life. Historical records also indicate that the Old Landfill was active between 1920 and 1965. Waste oils, solvents, and other liquids were poured into pits and either burned or allowed to percolate into the ground. Additionally, industrial wastes, including degreaser sludges, heat-treating salts, electroplating solutions, sludges, and wastewaters from operation on RIA were disposed of in this area.

In 1987 an update of the Initial Assessment of RIA was conducted to determine if conditions had changed. This report indicated a clay cap has been placed over the landfill; however, the Army is required to investigate all contaminants. At this point, the three remaining sites became part of the RIA restoration IAP for cleanup. The USACE, Nashville District was hired to act as the project manager for the cleanup of the landfill.

In 1994 and 1995 a phase I RI was conducted. The overall objective was to assess the nature of the contamination present at the landfill. Activities performed included a search of historical records, a topographic survey, site maps, magnetometer sweep, geophysical survey, sampling and analysis of soil and water, permeability testing, groundwater elevation measurement, monitoring well installation and sampling, and other items.

In 1996, pursuant to guidance from the USAEC, the XYZ Fire Training Area (RIA-003) was combined with the Landfill (RIA-001). The XYZ area was three rows of ten buildings where fire training activities were carried out. The training, which consisted of training fire personnel using wood and other combustible materials during training exercises inside the buildings, was discontinued in 1982. There is no evidence of the use of solvents or fuels. The site was covered with grass after the buildings were removed. Portions of the area have been used for equipment storage and parking.

In 1997 and 1998 a phase II RI was conducted. The field activities associated with this investigation included obtaining additional characterization data to complement the phase I results, support the baseline human health risk assessment (HHRA) and ecological risk assessment, and define the extent of contamination.

In September 2004 a small business PBC was awarded. It covers work through RC for sites RIA-001 and RIA-014. The funds for this contract expired and a new PBA was awarded in FY11. The new contract will include an FFS, groundwater bioremediation, cover, in situ treatment, storm water line removal, river bank revetment, compliance sampling, and LTM. Costs for RIA-014 are also tracked under site RIA-001.

Interim actions workplans will be initiated/approved in FY12 and implemented in FY13. Point of contact (POC) monitoring will be initiated in FY12 and continued through out-years. A groundwater pilot study will be initiated to determine appropriate technology to address groundwater contamination in FY12.

Site ID: RIA-001

Site Name: OLD LANDFILL

In December 1999 a final RI report was prepared by the USACE, Nashville District. The recommendations in the report stated that the nature and extent data and risk assessment findings should be used in the FS to develop remedial alternatives for the Old Landfill. IEPA-developed alternate concentration limits (ACLs) should be used as remediation goals for groundwater and applied at the point of compliance as part of a long-term groundwater monitoring program. The ACLs should also be used to back-calculate soil cleanup levels for the Old Landfill contaminants of concern.

In March 2000 a draft FS was prepared by the USACE, Nashville District indicating 11 alternatives to close the site. After a screening evaluation of the alternatives, five site-wide alternatives were retained. Based on the detailed evaluation in the FS, Alternative 4, capping combined with hot spot removal and product recovery was selected.

In June 2000 an internal technical review (ITR) of the Old Landfill Project was conducted by USAEC. The purpose of the review is to ensure that installations are attaining the appropriate level of risk reduction while maximizing the effective and efficient use of environmental restoration funds. The ITR team serves only to advise and provide recommendations to the installation. A draft report was received and reviewed by RIA, the USACE, Nashville District, and the IEPA. A final report of recommendations was written and sent to the installation in FY01.

Additional activities conducted in FY01 included further sampling and analysis of the slough bank was conducted to determine groundwater discharge points, skimming of free-product from one of the wells that showed free-product, installation of compliance wells, and a mussel survey.

In FY02 a draft report from the mussel survey conducted in the slough adjacent to the landfill was completed. The final report from the mussel survey was sent out for comment to the Natural Resource trustees in February 2002.

In April 2002 a soil vapor extraction (SVE) pilot study was conducted and any bulk free-product found in the wells in question was pumped out. This pilot study was used to extract contamination from the soil in specific locations on the landfill. The results of test indicated SVE was not a viable option. The compliance wells were sampled on a quarterly basis to determine the level of contamination at those points.

The FS was drafted in FY02 and was submitted to the IEPA. A PBC was awarded in FY04. Comments from the FS were received and the new PBC contractor is responsible for addressing the comments.

In 2004, under the newly awarded PBC, the contractor began to revise the FS to include the data from the mussel survey, SVE pilot study and an Endangered Species Act effects analysis and ecological risk addendum.

The draft final FS was sent to the IEPA on July 25, 2006 and the IEPA responded with substantive comments on April 2, 2007. The previous PBC expired in 2010 and a new PBA was contracted in 2011 to run through 2015 to address the soil contamination. The Army and the IEPA have entered into a Dispute Resolution Agreement which outlined the soil remediation for the landfill. The groundwater remediation path forward will be determined at a later date. A new PBA will be contracted in 2016 to address the groundwater contamination.

CLEANUP/EXIT STRATEGY

The Army is currently addressing the IEPA Dispute Resolution. A new PBA was contracted in FY11 to run through FY15 and it includes completing the FFS, river bank revetment, groundwater bioremediation, compliance sampling, storm water line removal, and cap installation. A project to investigate the Silurian Aquifer beneath the landfill was initiated in FY10 and will be complete in FY12. The Old Landfill PBA includes bioremediation studies for removal of VOC, metals, and benzene in soil and groundwater, provides a soil cap for the landfill, provides removal of three storm water lines that transect the landfill, and provides erosion control/bank revetment. Bi-annual monitoring of point of compliance wells is also scheduled. Following this PBA, a new PBA will be issued in FY16 to address the groundwater contamination. This PBA will include bioremediation of the groundwater as indicated by the studies included in the previous PBA. Once the site has reached regulatory standards LTM will be started (projected in FY21). The LTM will include site maintenance and required groundwater monitoring. A site-specific land use control implementation plan (LUCIP) will be written and incorporated into the installation LUC MOA between the IEPA and the Army.

Site ID: RIA-001
Site Name: OLD LANDFILL

The LUCIP will also be incorporated in the installation master plan.

The FS will be completed on the RIA-14 site (UST-34) and site closure is expected in FY12. A LUC is expected for the site.

Site ID: RIA-014
Site Name: UST (34)

STATUS

Regulatory Driver: CERCLA

RRSE: LOW

Contaminants of Concern: Polycyclic Aromatic Hydrocarbons (PAH), Volatiles (VOC)

Media of Concern: Groundwater

| Phases | Start | End |
|---------------|--------------|------------|
| PA..... | 198606..... | 198612 |
| SI..... | 199901..... | 199909 |
| RI/FS..... | 200001..... | 200905 |
| IRA..... | 199205..... | 199207 |
| RA(C)..... | 200806..... | 201010 |
| LTM..... | 201201..... | 201212 |

RIP Date: N/A

RC Date: 201010

SITE DESCRIPTION

RIA-014 is a former site near Buildings 250, 251, and 254. Contamination was discovered during the removal of UST 34. In 1989 an IRA in conjunction with the removal of the abandoned UST removed about 200 cubic yards of contaminated soil. The soil was sent to a permitted landfill manifested as special waste. The FS is being finalized to incorporate new groundwater data. It will be submitted to the appropriate agency for review/concurrence. NFA is anticipated.

An RI was completed and the plume migration pathways have been identified. PAHs were the initial contaminants of concern. Trichloroethylene has been subsequently discovered at relatively low levels. An additional investigation was completed to delineate the soil contamination and groundwater plume.

A low level detection of explosives has been found in soils. A World War I melt and pour facility is the probable source of the explosive contaminants that were identified.

The final RI report was submitted to the IEPA and approved in January 2008.

A PBC awarded in FY04 covers all activities through RC. Costs for site RIA-014 are being tracked under site RIA-001.

One sampling event was conducted in FY10 and one in FY11. The results of these events have shown that the site has reached remedial limits. In FY12 the FS and ROD will be completed using the sampling data.

CLEANUP/EXIT STRATEGY

The site is close to the regulatory requirements. The site should go to monitored natural attenuation (MNA) and a LUCIP put in place and the site become part of the LUCMOA program.

Site Closeout (No Further Action) Summary

| Site ID | Site Name | NFA Date | Documentation |
|----------|--|----------|---|
| RIA-001A | Old Landfill - Silurian Aquifer | 201206 | |
| RIA-002 | USTs 8,9,10,11 at BLDG 222 | 198809 | Final report will be sent to IEPA in Sept 07. Anticipation of NFA letter for FY08. |
| RIA-004 | ASH PILE | 198805 | Letter sent to IEPA in 4QTR FY07 with documents for closure of site. Anticipation of NFA letter from IEPA in FY08. |
| RIA-005 | AST AT BLD 222 TEMPORARY | 198805 | Site was entered into database erroneously therefore no closure documentation is available. However, state closure was granted in 1995. |
| RIA-006 | LANDFILL CONSTRUCTION DEBRIS | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-008 | OLD QUARRY FILLED WITH WATER | 200309 | Closure letter from IEPA - Apr 2004 |
| RIA-009 | BURIAL SITE NE BLD 342 | 198805 | Letter sent to IEPA in 4QTR FY07 with documents for closure of site. Anticipation of NFA letter from IEPA in FY08. |
| RIA-010 | FORMER SHELLBREAKER AND DRMO STG | 198805 | Letter sent to IEPA in 4QTR FY07 with documents for closure of site. Anticipation of NFA letter from IEPA in FY08. |
| RIA-011 | CASING BURIAL AREA MUN BURIAL | 198805 | Letter sent to IEPA in 4QTR FY07 with documents for closure of site. Anticipation of NFA letter from IEPA in FY08. |
| RIA-012 | HAZARDOUS WASTE STG AREA BLD 242 | 198805 | Active site - not eligible for E,RA funding. Closure was approved by IEPA - 1995 |
| RIA-013A | HAZ SATELLITE STG AREAS BLD 33 | 199407 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013B | HAZ SATELLITE STG AREAS BLD 64 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013C | HAZ SATELLITE STG AREAS BLD 65 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013D | HAZ SATELLITE STG AREAS BLD 69 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013E | HAZ SATELLITE STG AREAS BLG 106 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013F | HAZ SATELLITE STG AREAS BLG 108 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013G | HAZ SATELLITE STG AREAS BLD 112 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013H | FORMER HAZ SATELLITE STG AREAS BLD 131 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013I | FORMER SATELLITE STG AREA BLD 133 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013K | HAZ SATELLITE STG AREA BLD 139 | 198805 | Site was entered into database |

Site Closeout (No Further Action) Summary

| Site ID | Site Name | NFA Date | Documentation |
|----------|---------------------------------------|----------|---|
| | | | erroneously therefore no closure documentation is available. |
| RIA-013L | HAZ SATELLITE STG AREA BLD 208 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013M | HAZ SATELLITE STG AREA BLD 220 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013N | HAZ SATELLITE STG AREAS BLD 220 (OIL) | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013O | HAZ SATELLITE STG AREAS BLD 222 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013P | HAZ SATELLITE STG AREAS BLD 230 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013R | HAZ SATELLITE STG AREAS BLD 250 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013S | HAZ SATELLITE STG AREAS BLD 299 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |
| RIA-013T | HAZ SATELLITE STG AREAS BLD 337 | 198805 | Site was entered into database erroneously therefore no closure documentation is available. |

IRP Schedule

Date of IRP Inception: 197902

Past Phase Completion Milestones

1980

PA (RIA-001 - OLD LANDFILL, RIA-006 - LANDFILL CONSTRUCTION DEBRIS, RIA-008 - OLD QUARRY FILLED WITH WATER, RIA-009 - BURIAL SITE NE BLD 342, RIA-010 - FORMER SHELLBREAKER AND DRMO STG, RIA-011 - CASING BURIAL AREA MUN BURIAL)
RFA (RIA-004 - ASH PILE)

1987

PA (RIA-014 - UST (34))

1988

ISC (RIA-002 - USTs 8,9,10,11 at BLDG 222)

SI (RIA-001 - OLD LANDFILL, RIA-005 - AST AT BLD 222 TEMPORARY, RIA-006 - LANDFILL CONSTRUCTION DEBRIS, RIA-008 - OLD QUARRY FILLED WITH WATER, RIA-009 - BURIAL SITE NE BLD 342, RIA-010 - FORMER SHELLBREAKER AND DRMO STG, RIA-011 - CASING BURIAL AREA MUN BURIAL)

PA (RIA-005 - AST AT BLD 222 TEMPORARY)

CS (RIA-004 - ASH PILE, RIA-012 - HAZARDOUS WASTE STG AREA BLD 242, RIA-013A - HAZ SATELLITE STG AREAS BLD 33, RIA-013B - HAZ SATELLITE STG AREAS BLD 64, RIA-013C - HAZ SATELLITE STG AREAS BLD 65, RIA-013D - HAZ SATELLITE STG AREAS BLD 69, RIA-013E - HAZ SATELLITE STG AREAS BLG 106, RIA-013F - HAZ SATELLITE STG AREAS BLG 108, RIA-013G - HAZ SATELLITE STG AREAS BLD 112, RIA-013H - FORMER HAZ SATELLITE STG AREAS BLD 131, RIA-013I - FORMER SATELLITE STG AREA BLD 133, RIA-013K - HAZ SATELLITE STG AREA BLD 139, RIA-013L - HAZ SATELLITE STG AREA BLD 208, RIA-013M - HAZ SATELLITE STG AREA BLD 220, RIA-013N - HAZ SATELLITE STG AREAS BLD 220 (OIL), RIA-013O - HAZ SATELLITE STG AREAS BLD 222, RIA-013P - HAZ SATELLITE STG AREAS BLD 230, RIA-013R - HAZ SATELLITE STG AREAS BLD 250, RIA-013S - HAZ SATELLITE STG AREAS BLD 299, RIA-013T - HAZ SATELLITE STG AREAS BLD 337)

IMP(C) (RIA-002 - USTs 8,9,10,11 at BLDG 222)

RFA (RIA-012 - HAZARDOUS WASTE STG AREA BLD 242, RIA-013A - HAZ SATELLITE STG AREAS BLD 33, RIA-013B - HAZ SATELLITE STG AREAS BLD 64, RIA-013C - HAZ SATELLITE STG AREAS BLD 65, RIA-013D - HAZ SATELLITE STG AREAS BLD 69, RIA-013E - HAZ SATELLITE STG AREAS BLG 106, RIA-013F - HAZ SATELLITE STG AREAS BLG 108, RIA-013G - HAZ SATELLITE STG AREAS BLD 112, RIA-013H - FORMER HAZ SATELLITE STG AREAS BLD 131, RIA-013I - FORMER SATELLITE STG AREA BLD 133, RIA-013K - HAZ SATELLITE STG AREA BLD 139, RIA-013L - HAZ SATELLITE STG AREA BLD 208, RIA-013M - HAZ SATELLITE STG AREA BLD 220, RIA-013N - HAZ SATELLITE STG AREAS BLD 220 (OIL), RIA-013O - HAZ SATELLITE STG AREAS BLD 222, RIA-013P - HAZ SATELLITE STG AREAS BLD 230, RIA-013R - HAZ SATELLITE STG AREAS BLD 250, RIA-013S - HAZ SATELLITE STG AREAS BLD 299, RIA-013T - HAZ SATELLITE STG AREAS BLD 337)
INV (RIA-002 - USTs 8,9,10,11 at BLDG 222)

1992

IRA (RIA-014 - UST (34))

1994

RFI/CMS (RIA-013A - HAZ SATELLITE STG AREAS BLD 33)

1999

SI (RIA-014 - UST (34))

2002

RD (RIA-008 - OLD QUARRY FILLED WITH WATER)

RI/FS (RIA-008 - OLD QUARRY FILLED WITH WATER)

2003

RA(C) (RIA-008 - OLD QUARRY FILLED WITH WATER)

2005

PA (RIA-001A - Old Landfill - Silurian Aquifer)

IRP Schedule

2009

RI/FS (RIA-014 - UST (34))

2011

RA(C) (RIA-014 - UST (34))

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

| Site ID | Site Name | ROD/DD Title | ROD/DD Date |
|---------|-----------|--------------|-------------|
|---------|-----------|--------------|-------------|

Final RA(C) Completion Date: 201910

Schedule for Next Five-Year Review: 2019

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

ROCK ISLAND ARSENAL IRP Schedule

= phase underway

| SITE ID | SITE NAME | PHASE | FY13 | FY14 | FY15 | FY16 | FY17 | FY18+ |
|---------|--------------|-------|------|------|------|------|------|-------|
| RIA-001 | OLD LANDFILL | RI/FS | | | | | | |
| | | RD | | | | | | |
| | | RA(C) | | | | | | |
| | | RA(O) | | | | | | |
| | | LTM | | | | | | |
| SITE ID | SITE NAME | PHASE | FY13 | FY14 | FY15 | FY16 | FY17 | FY18+ |
| RIA-014 | UST (34) | LTM | | | | | | |

ROCK ISLAND ARSENAL
Army Defense Environmental Restoration Program
Compliance Restoration

CR Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 3/1

Installation Site Types with Future and/or Underway Phases

- 1 Contaminated Ground Water
(CC-RIA-007)
- 1 Plating Shop
(CC-RIA-69)

Most Widespread Contaminants of Concern

Metals, Volatiles (VOC)

Media of Concern

Groundwater

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

| Site ID | Site Name | Action | Remedy | FY |
|-----------|------------------------------|--------|---------|------|
| CC-RIA-54 | BLDG 54 Oil Storage Building | FRA | REMOVAL | 2010 |

Duration of CR

Date of CR Inception: 200610

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201409/201409

Date of CR completion including Long Term Management (LTM): 204409

CR Contamination Assessment

Contamination Assessment Overview

The Building 69 site (CC-RIA-69) is the former Small Arms Plating Shop. The groundwater contaminants of concern are chromium and VOCs. It is anticipated that the site will require bioremediation for the groundwater. A RCRA facility investigation (RFI)/corrective measures study (CMS) is planned, a PBA has been issued for this and two other sites.

CC-RIA-007 contaminant of concern is trichloroethylene (TCE) in the groundwater. An RFI/CMS is planned for the site and it will be part of the above PBA. It is expected that bioremediation will be used to remediate the site groundwater.

Cleanup Exit Strategy

The CC-RIA-69 and CC-RIA-007 sites will both be included in a PBA for three RIA sites. Both sites will have remedial studies conducted and it is expected that both sites will be remediated via groundwater remediation. It is expected that both sites will have LUCIPs instituted and go into LTM.

CR Previous Studies

| | Title | Author | Date |
|-------------|--|----------------------------------|-------------|
| 2010 | CC-RIA-69, PI | Foth | FEB-2010 |
| 2011 | CC-RIA-007 Preliminary Site Assessment | Environmental Quality Management | FEB-2011 |
| | Building 69, RI | Foth | JUL-2011 |

ROCK ISLAND ARSENAL
Compliance Restoration
Site Descriptions

Site ID: CC-RIA-007
Site Name: Former Construction Landfill

STATUS

Regulatory Driver: CERCLA
Contaminants of Concern: Volatiles (VOC)
Media of Concern: Groundwater

| Phases | Start | End |
|------------------|--------------|------------|
| PA..... | 200805..... | 200812 |
| SI..... | 201006..... | 201009 |
| RI/FS..... | 201207..... | 201307 |
| RD..... | 201307..... | 201309 |
| RA(C)..... | 201309..... | 201409 |
| LTM..... | 201409..... | 204409 |
| RIP Date: | N/A | |
| RC Date: | 201409 | |

SITE DESCRIPTION

The RIA-007 site is a grassed area between the POL Facility and Sylvan Slough. The area was named SWMU RIA-7 in the US Army Environmental Hygiene Agency (USAEHA) Groundwater Contamination Survey No. 38-26-0308-88, Interim Final Report dated May 16-21, 1988. It may also be known as Site 23, as identified in the Installation Assessment of Rock Island Arsenal, Report No.164, December 1979, USATHAMA. The 1988 AEHA report states that the site was used to landfill construction debris in the 1960s through the mid 1970s. Daily & Associates investigated some of the area in 1990 and 1991, as part of a POL spill incident. The final report is "POL Facility Investigation of Leaking Underground Storage Tanks Rock Island Arsenal, D/A File No. 5680.06, May 1991", Contract No. DAAA 08-91-M-0330. Daily was not informed of the past use of the site and only the potential for petroleum contamination and transport was investigated. Review of the document indicates that some apparent landfill contamination was detected by the active soil gas survey. During the winter of 1996-1997, Sverdrup conducted work to classify groundwater according to IEPA rules ("Draft Groundwater Classification Investigation Report for the Old Landfill Site At Rock Island Arsenal, DACA62-95-D-0018, D.O. No. 0026, March 1997"). Although the intent of the wells installed by Sverdrup was to only conduct a pump test of the aquifer, they also discovered some contamination. Sampling results of a 2009 monitoring well survey indicated that the RIA-007 site should be investigated. A preliminary investigation has been completed and sampling results indicated contamination above state soil remediation standards and groundwater remediation standards. The site transferred from the Compliance Program. This site is part of the FY12 PBA effort at RIA.

CLEANUP/EXIT STRATEGY

An RI/FS will be conducted at the site and it is expected that no source will be found, thus the remediation will be bioremediation of the groundwater with monitoring. The site is included on a FY12 PBA for three sites at RIA (CC-RIA-007, CC-RIA-69, and CC-RIA-64).

Site ID: CC-RIA-69

Site Name: BLDG 69 Production, Plating and Tinning

STATUS

Regulatory Driver: RCRA
Contaminants of Concern: Metals, Volatiles (VOC)
Media of Concern: Groundwater

| Phases | Start | End |
|---------------|--------------|------------|
| RFA..... | 200610..... | 200702 |
| CS..... | 200903..... | 200909 |
| RFI/CMS..... | 201003..... | 201307 |
| DES..... | 201101..... | 201307 |
| CMI(C)..... | 201103..... | 201307 |
| LTM..... | 201407..... | 204407 |

RIP Date: N/A
RC Date: 201407

SITE DESCRIPTION

A mix of production, plating and tinning operations were performed within Building 69 until about 1980. Until the building structure was demolished in 2007, the major use was for storage.

The building was demolished during FY07, but the foundation and floor remain in place. A plating pit was filled and covered with a 100 mil high density polyethylene (HDPE) membrane to minimize infiltration. A PA was performed and included groundwater and soil sampling. The PA results indicated contamination (chromium) and an RI is underway. This site will now be part of the FY12 PBA.

CLEANUP/EXIT STRATEGY

The building 69 site is included in a PBA for three sites at RIA (CC-RIA-69, CC-RIA-007, and CC-RIA-64). There will be an RFI/CMS performed and the expected remediation will be bioremediation of the groundwater. The site should then go to LTM and a LUCIP should be placed on the site.

Site Closeout (No Further Action) Summary

| Site ID | Site Name | NFA Date | Documentation |
|-----------|------------------------------|----------|--------------------------|
| CC-RIA-54 | BLDG 54 Oil Storage Building | 201008 | NFA Letter from the IEPA |

CR Schedule

Date of CR Inception: 200610

Past Phase Completion Milestones

2007

RFA (CC-RIA-54 - BLDG 54 Oil Storage Building, CC-RIA-69 - BLDG 69 Production, Plating and Tinning)

2009

PA (CC-RIA-007 - Former Construction Landfill)

CS (CC-RIA-69 - BLDG 69 Production, Plating and Tinning)

2010

SI (CC-RIA-007 - Former Construction Landfill)

CMI(C) (CC-RIA-54 - BLDG 54 Oil Storage Building)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

To Be Determined

Final RA(C) Completion Date: 201409

Schedule for Next Five-Year Review: 2019

Estimated Completion Date of CR at Installation (including LTM phase): 204409

ROCK ISLAND ARSENAL CR Schedule

= phase underway

| SITE ID | SITE NAME | PHASE | FY13 | FY14 | FY15 | FY16 | FY17 | FY18+ |
|------------|---|---------|------|------|------|------|------|-------|
| CC-RIA-007 | Former Construction Landfill | RI/FS | | | | | | |
| | | RD | | | | | | |
| | | RA(C) | | | | | | |
| | | LTM | | | | | | |
| SITE ID | SITE NAME | PHASE | FY13 | FY14 | FY15 | FY16 | FY17 | FY18+ |
| CC-RIA-69 | BLDG 69 Production, Plating and Tinning | RFI/CMS | | | | | | |
| | | DES | | | | | | |
| | | CMI(C) | | | | | | |
| | | LTM | | | | | | |

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): 200804

Restoration Advisory Board (RAB): No

Reason Not Established: The community has expressed no sufficient, sustained interest in a RAB.

Community Interest Solicited on: 201105

Efforts Taken to Determine Interest

A RAB letter and survey was sent to community leaders and a notice was placed in local newspapers in April 2007. The same was done in May 2009 and the same is planned for 2011.

Results

Due to a poor response and a lack of interest to the 2007, 2009, and 2011 solicitations a RAB was not established.

Follow-up Procedures

N/A

Additional Community Involvement Information

None

Administrative Record is located at

Rock Island Arsenal Vault, 1st floor
Building 102, Rodman Avenue
Rock Island Arsenal,
Rock Island, IL 61299

Information Repository is located at

Rock Island Arsenal Vault, 1st floor
Building 102, Rodman Avenue
Rock Island Arsenal,
Rock Island, IL 61299

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

TAPP Title: N/A

Potential TAPP: N/A

