

FY2010

FORT WINGATE DEPOT ACTIVITY

Base Realignment & Closure
Installation Action Plan

Printed 24 September 2010

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Statement of Purpose

The purpose of the Base Realignment and Closure (BRAC) Installation Action Plan (BIAP) 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 BRAC environmental coordinator (BEC), the US Army Environmental Command (USAEC), the US Army Corps of Engineers (USACE), Fort Wingate Depot Activity (FWDA), the regulatory agencies, executing agencies, the Navajo Nation, the Pueblo of Zuni, the BRAC division and the public, a BIAP was completed. The BIAP is used to track requirements, schedules and tentative budgets for all Army installation cleanup programs.

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

Installation Program Summaries

BRAC-IRP

| | |
|----------------------------------|--|
| Total Number of Sites: | 43 |
| Number of sites at RIP: | 0 |
| Number of sites at RC: | 26 |
| Number of sites at RC with LTM: | 0 |
| Primary Contaminants of Concern: | Asbestos, Explosives, Metals, Munitions and explosives of concern (MEC), Perchlorate, Pesticides, Polychlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC), White Phosphorous |
| Affected Media of Concern: | Groundwater, Sediment, Soil, Surface Water |

BRAC-MMRP

| | |
|----------------------------------|--|
| Total Number of Sites: | 5 |
| Number of sites at RIP: | 0 |
| Number of sites at RC: | 2 |
| Number of sites at RC with LTM: | 0 |
| Primary Contaminants of Concern: | Explosives, Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC), Perchlorate, Pesticides, Polychlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC) |
| Affected Media of Concern: | Groundwater, Sediment, Soil, Surface Water |

Installation Information

Installation Locale

BRAC Round: BRAC I
 Installation Size (Acreage): 21,131.00
 Retained by Component (Acreage): 6,465.00
 BRAC Acreage: 14,666.00
 Acres being transferred to another service: 0.00
 Acres being transferred to other federal agencies: 0.00
 Acres being transferred to non-federal agencies: 0.00

City: Gallup
 County: McKinley
 State: New Mexico
 Other Locale Information

FWDA currently occupies 15,280 acres of land in northwestern New Mexico, in McKinley County. The installation is located eight miles east of Gallup (population 20,209) on United States (US) Route 66 and approximately 130 miles west of Albuquerque on Interstate 40. McKinley County has a population of 74,798, comprised of 74 percent Native American, 15 percent White, and 11 percent Hispanic. McKinley County, located on the Colorado Plateau, is primarily rural, with small villages scattered among large tracts of state, tribal, and federal lands. Gallup has a varied base of service, government, mining and refinery industries, and Native American jewelry production. Tourism attracts thousands of visitors annually, and Native American culture yields a significant economic influence. Local industries include printing, sheet metal products, food products, pinon nut gathering, and cattle and sheep by-products. Heavier manufacturing includes gasoline refining, a natural gas compressor station, and coal mining. The natural resource base includes uranium reserves and coal.

The installation is almost entirely surrounded by federally owned or administered lands, including both national forest and tribal lands. North and west of FWDA are Navajo Tribal trust and allotted lands. The lands administered by the Bureau of Indian Affairs (BIA) lie east of FWDA. Development north of FWDA includes Red Rock State Park, a Zuni railroad siding, an El Paso Natural Gas fractioning plant and housing area, the Navajo community of Church Rock, and transportation corridors for Interstate 40, US Highway 66, and the Burlington, Northern, and Santa Fe Railroad. The town of Fort Wingate, located immediately east of FWDA on BIA-administered land, was the original Fort Wingate headquarters site. To the south and southeast is the largely undeveloped Cibola National Forest. The land to the west is mostly undeveloped and is tribal trust and allotment land administered by BIA, the Navajo Nation, and individual Native American allottees.

Parcels 1, 15, and 17, totaling 5,854 acres, have already been transferred to the Department of Interior (DOI).

List of Off-Post Properties

N/A

Environmental Condition of Property

| | | |
|----------------------|----------|----------|
| BRAC Round: | BRAC I | |
| | CERCLA | MMRP |
| Acres in Category 1: | 8,076.00 | 0.00 |
| Acres in Category 2: | 0.00 | 0.00 |
| Acres in Category 3: | 0.00 | 0.00 |
| Acres in Category 4: | 0.00 | 0.00 |
| Acres in Category 5: | 0.00 | 0.00 |
| Acres in Category 6: | 6,590.00 | 2,678.00 |
| Acres in Category 7: | 0.00 | 0.00 |

Lead Organization

Base Realignment and Closure Division

Lead Executing Agencies for Installation

US Army Corps of Engineers (USACE), Fort Worth District

Installation Information

Regulator Participation

Federal US Environmental Protection Agency (USEPA), Region VI
State New Mexico Environment Department (NMED)

BRAC Closure Round: BRAC I - Base Realignment And Closure 1988

Status of Redevelopment Initiative (Reuse Plan)

Redevelopment Plan Date: 200509
Organization Name: None

Existing Legal Agreements/Interim Leases

| Parcel Name | Actual Lease/License Date | Length of Lease/License | Licensee |
|-------------|---------------------------|-------------------------|----------|
| N/A | | | |

Significant Base Tenants

US Department of Agriculture
Missile Defense Agency (MDA)
Navajo Nation
Pueblo at Zuni

Projected Date of Final Transfer of Property: 202009

National Priorities List (NPL) Status

FORT WINGATE DEPOT ACTIVITY is not on the NPL

Date for NPL Deletion: TBD

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

RAB established 1994

Cleanup Program Summary

Previous Year Planned versus Actual Progress

All planned actions were achieved within the fiscal year, although some minor delays occurred with the building demolitions.

Installation Program Cleanup Progress

BRAC-IRP

Prior Year Progress: The US Geological Survey (USGS) performed well installation and soil sampling per the Parcel 11 and Parcel 22 RFI work plans. Building (Bldg) demolition will be performed in the workshop area to test and remediate environmental contamination. Parcel 25, 4b, 5b, 8 transfer documents were sent to DOI. Parcel 12, 14, 6, 23, 10 final work plans and background reports were sent to NMED. Semiannual groundwater monitoring continued.

Future Plan of Action: Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) work plans for parcels 16, 13, 18 will be submitted to the NMED. Work plans will be finalized and RFI fieldwork will be performed for Parcels 6, 23, 10, 16. Parcels 25, 4b, 5b, 8, 10A will be transferred. Parcels 5A, 12, and 14 will be prepared for transfer. Semiannual monitoring will continue.

BRAC-MMRP

Prior Year Progress: Semiannual groundwater monitoring continued. The Corrective Action Management Unit (CAMU) permit modification will be completed. The Kickout Area report was approved by NMED. A performance-based acquisition (PBA) will be awarded for hazardous waste management unit (HWMU) removal and south and east fence construction on Parcel 3, funds for which will be required in FY11-14.

Future Plan of Action: The CAMU will be constructed. The HWMU Closure Plan will be prepared and approved. The PBA for the HWMU removal will be initiated. Work plans for functional test ranges (FTRs) 2 and 3 will be prepared. Parcel 3 east and south fence construction will be completed.

Installation Exit Strategy

- Use PBAs to complete environmental remediation once parcels are adequately characterized. The Army anticipates award of a PBA in fiscal year (FY)10 to close the open burn (OB)/open detonation (OD) HWMU.
- Use Best Available Technology, including airborne munitions and explosives of concern (MEC) survey techniques, to characterize sites.
- Negotiate lower cost cleanup levels for OB/OD grounds (Parcel 3), Trinitrotoluene (TNT) Leaching Beds (Parcel 21), and other highly contaminated areas for passive re-use by native tribes rather than residential. Retain the most contaminated portions of OB/OD grounds to allow for less cleanup.
- Focus cleanup on parcel by parcel basis rather than site by site.
- Quickly reduce number of sites by conducting single release assessment for AOCs where corrective action is most likely not needed.
- Reduce time and cost characterization by using multi-incremental sampling as much as possible.
- Continue to develop strong working relationships with the tribes through consultation.
- Continue to use the existing Programmatic Agreement with state and tribes to streamline compliance with cultural resources laws and regulations.
- Continue to help the tribes accelerate document review times by providing funding through cooperative agreements.

FORT WINGATE DEPOT ACTIVITY

Base Realignment and Closure
Installation Restoration Program

BRAC-IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) BRAC Sites/Closeout Sites Count: 43/26

Sites planned for RIP for FY2011

| Site ID | Site Name | Month |
|---------|-----------|-------|
| N/A | | |

Sites planned for RC for FY2011

| Site ID | Site Name | Month |
|---------|-----------|-------|
| N/A | | |

Installation Site Types with Future and/or Underway Phases*

- 1 Building Demolition/Debris Removal (FTWG-18)
- 1 Contaminated Buildings (FTWG-63)
- 4 Landfill (FTWG-10, FTWG-12, FTWG-28, FTWG-30)
- 1 Spill Site Area (FTWG-36)
- 5 Storage Area (FTWG-07, FTWG-21, FTWG-27, FTWG-38, FTWG-49)
- 1 Surface Disposal Area (FTWG-26)
- 1 Surface Impoundment/Lagoon (FTWG-01)
- 1 Surface Runoff (FTWG-42)
- 1 Training and Maneuver Area (FTWG-15)
- 1 Waste Treatment Plant (FTWG-11)

Most Widespread Contaminants of Concern*

Asbestos, Explosives, Metals, Munitions and explosives of concern (MEC), Perchlorate, Pesticides, Polychlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC), White Phosphorous

Media of Concern*

Groundwater, Sediment, Soil, Surface Water

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

| Site ID | Site Name | Action | Remedy | FY | Cost |
|---------|-----------------------------|--------|-----------------------|------|-----------|
| FTWG-32 | COMPLIANCE - UST | FRA | REMOVAL | 1996 | \$25.0 K |
| FTWG-33 | COMPLIANCE - FIRE HOUSE UST | FRA | OTHER | 1997 | TBD |
| FTWG-20 | MISSILE LAUNCH SITES | FRA | OTHER | 1998 | \$20.0 K |
| FTWG-41 | PCB SITES | FRA | REMOVAL | 1998 | \$793.0 K |
| FTWG-19 | BLDG. 5 | FRA | REMOVAL | 1999 | TBD |
| FTWG-19 | BLDG. 5 | IRA | WASTE REMOVAL - SOILS | 1999 | TBD |
| FTWG-29 | BLDG. 503 | FRA | OTHER | 1999 | TBD |
| FTWG-22 | BUILDING 11 | FRA | WASTE REMOVAL - SOILS | 2002 | \$852.0 K |
| FTWG-54 | WESTERN LANDFILL | FRA | REMOVAL | 2002 | \$206.7 K |

BRAC-IRP Summary

Duration of BRAC-IRP

| | | |
|---|--------|---------------|
| Date of BRAC-IRP Inception: | 198910 | |
| Date for Remedy-In-Place (RIP)/Response Complete (RC): | | 202109/202109 |
| Date of BRAC-IRP completion including Long Term Management (LTM): | | 203109 |

*Note: This does not include sites closed prior to installation being identified as BRAC.

BRAC-IRP Contamination Assessment

Contamination Assessment Overview

Environmental restoration activities at FWDA began in 1989 under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) guidelines, as part of the Installation Restoration Program (IRP). The one exception was the OB/OD unit, which proceeded under RCRA guidelines. During the period from 1980 through issuance of the permit in December 2005, a number of environmental investigations were conducted by the Army and other parties (e.g., USEPA and DOI) under both CERCLA and RCRA guidance. Examples of CERCLA investigations/actions conducted at FWDA include a facility-wide enhanced preliminary assessment (PA), a facility-wide remedial investigation (RI), and MEC removal actions. Examples of RCRA investigations/actions conducted at FWDA include a facility-wide RCRA facility assessment (RFA) and a closure field program (CFP) in the OB/OD Area.

Prior to issuance of the permit, approximately 44 solid waste management units (SWMUs) and AOCs had been identified, and these SWMUs and AOCs were at various states of environmental restoration when the permit process began in 2002. The RCRA permit as finalized lists one HWMU (the OB/OD unit) and a total of 93 SWMUs and AOCs.

The permit describes closure requirements for the OB/OD unit (e.g., removal of all hazardous wastes and hazardous waste residues, soil characterization, and confirmation sampling), groundwater investigation and corrective action requirements for the OB/OD unit, and the corrective action process for the remaining SWMUs and AOCs. The sites will be addressed on a parcel by parcel basis, as specified by the permit.

The two primary sites with the most significant contamination have been and remain the OB/OD unit (along with the associated SWMUs and AOCs in Parcel 3) and the TNT Leaching Beds and Bldg 503 (SWMU 1, which lies in Parcel 21).

The OB/OD unit contains 10 residue piles that contain various levels of explosives, metals, and MEC. Based on the results of the CFP sampling conducted in 1996, explosives were detected in waste samples including cyclotrimethylenetrinitramine (RDX) [maximum concentration 20,000 parts per million (ppm)] and TNT (maximum concentration 22,000 ppm). Several metals of concern were also detected in the wastes, including barium (maximum concentration 8,500 ppm), cadmium (maximum concentration 600 ppm), and lead (maximum concentration 6,000 ppm). Contaminants were also detected in soils underlying the waste, including amosite asbestos (maximum concentration 2.2 ppm), arsenic (maximum concentration 470 ppm), and thallium (maximum concentration 480 ppm). Waste in the other SWMUs and AOCs within Parcel 3 contained the same types of contaminants at similar concentrations. Groundwater has also been impacted by OB/OD operations; explosives, nitrate, perchlorate, and various metals have been detected in groundwater. MEC, both on-site and off-site, has been encountered and a number of surveys and removal actions have been performed. Additional efforts to identify the extent of kickout are currently being implemented.

SWMU 1 is made up of the former TNT Washout Building (Building 503) and the TNT Leaching Beds. Based on results from soil samples collected from the zero to five-foot depth interval during several field efforts, explosives including TNT (maximum concentration 11,500 ppm), cyclotetramethylenetetranitramine (HMX) (maximum concentration 180 ppm), and RDX (maximum concentration 2,390 ppm) have been detected in soils in and around the TNT Leaching Beds. Several inorganic constituents were also detected in the soil, including barium (maximum concentration 605 ppm), cadmium (maximum concentration 5.5 ppm), iron (maximum concentration 25,400 ppm), manganese (maximum concentration 1,020 ppm), nitrate (maximum concentration 800 ppm), and phosphorous (maximum concentration 32,000 ppm). Soils below five feet are also impacted with generally the same constituents, at decreasing concentrations.

Groundwater is present below the TNT Leaching Beds in a number of discrete water-bearing zones. Concentrations of total explosives compounds have been detected at values up to 464 parts per billion (ppb); concentrations of nitrate have been detected at values up to 166 ppm. Perchlorate concentrations were detected in an area upgradient of the TNT Leaching Beds at levels up to 2,500 ppb.

FWDA is under a RCRA closure permit that was negotiated at the Department of Army level with the state of New Mexico, the Navajo Nation, the DOI, and the Pueblo of Zuni prior to the current BEC being hired. The NMED enforces the permit and will be charging document review fees on all submittals. The USEPA, Region 6 is also involved in reviewing documents.

The Fort Wingate environmental restoration program and property transfer have several complicating factors and uncertainties. They start with the history of the Army establishing the post in the 1860s, during the conflicts with the Native Americans as part of the country's westward expansion. To a certain extent, both tribes have a distrust of the Army originating back to these conflicts. The Pueblo of Zuni and the Navajo Nation are both competing for the transferred property and have established Fort Wingate Teams, sanctioned by the tribal governments, to act on their behalf. Both tribes have been adversaries for centuries. The permit negotiations resulted in permit language specifying that the Army shall engage in consultation with both tribes on all

BRAC-IRP Contamination Assessment

documents submitted to the state for approval. The DOI/Bureau of Land Management (BLM)/BIA (both tribes have a representative) are also reviewing all documents because the property is being transferred to the DOI. Thus, an extra round of document review is needed on all submittals under the program.

Significant consultation with the tribes is required to address the MEC restoration in Parcel 3. Some or all of Parcel 3 may have to be retained by the Army due to the presence of MEC. The permit does not require MEC removal on terrain that is too steep to walk. The exact acreage has yet to be determined.

Due to the significant cultural resources [Traditional Cultural Properties (TCP), sacred sites, burial sites, archaeological sites etc.], several regulations have to be met in order to restore the property (Native American Graves Protection and Repatriation Act, National Historic Preservation Act, etc.). The Army has prepared and the stakeholders have approved a programmatic agreement and comprehensive agreement to address all of the cultural regulations. This has streamlined the restoration process.

FORT WINGATE DEPOT ACTIVITY

Installation Restoration Program

Site Descriptions

STATUS

Parcel: TPL Parcel 21 (167 acres)

Regulatory Driver: RCRA

RRSE: MEDIUM

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern (MEC), Perchlorate, Pesticides, Polychlorinated Biphenyls (PCB), Semi-volatiles (SVOC), Volatiles (VOC), White Phosphorous

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 201209 |
| DES..... | 201210..... | 201309 |
| CMI(C)..... | 201310..... | 202109 |
| LTM..... | 202110..... | 203109 |

RIP Date: N/A

RC Date: 202109

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. This site previously addressed only SWMU 1, but now addresses a number of sites located in Parcel 21 as follows: AOC-75, Electrical Transformers; SWMU-1, TNT Leaching Beds and Building 503; SWMU-2, Building 515 (Painting and Acid Washout Building and Acid Holding Pond); SWMU-7, Fire Training Ground; SWMU- 19, Building 501 (Former Boiler House and Heating Plant No. 7); AOC-60, Building 522 formerly designated as Building 500 (Ammunition Receiving Bldg.); AOC-61, Building 507 (Smokeless Powder Magazine); AOC-62, Building 508 (Smokeless Powder Magazine); AOC-63, Building 509 (Primary Collector Barricade or Propellant Baghouse); AOC-64, Building 510 (Vacuum Producer Building); AOC-65, Building 511 (Service Magazine); AOC-66, Building 512 (Service Magazine); AOC-67, Building 513 (Service Magazine); AOC-68, Structure 514 (Deboosting Barricade) and Structure 545 (Earthen Barricade); SWMU-72, Deactivation Furnace, Deactivation Furnace Acid Pits, and surrounding area (includes pre-1958 buildings and areas in the vicinity of Bldg. 530); AOC-87, Feature 18 on 1962 aerial photo (API-3) and Feature 23 on 1973 aerial photo (API-5) in 1995 archive search report.

The final RCRA facility investigation (RFI) work plan and release assessment report were approved by NMED in December 2008. The RFI fieldwork was performed in 2009. Additional geophysical characterization and well installation was performed in FY10. Brass casings were removed near the deactivation furnace.

TPL Inc.'s facility use contract with the Army expired on March 31, 2007. Since 1994 they had performed demilitarization of a variety of conventional munitions at FWDA. The company is responsible under the contract with the Army for cleaning up any environmental contamination its operations may have caused.

The parcel covers 167 acres.

CLEANUP/EXIT STRATEGY

The majority of the cost and effort for Parcel 21 will occur at SWMU-1 (TNT Leaching Beds & Building 503). The primary contaminants of concern (COCs) are explosives. Soil removal and in situ groundwater remediation are assumed for this site. Other sites where soil removal is assumed include SWMUs 7, 19, and 72, and AOC 75 (Electrical Transformers). Three acres will be investigated for MEC at SWMU 72.

Cost to complete (CTC) assumptions include:

- A Corrective Measures Study (CMS).
- The Corrective Measures (CM) will include in situ groundwater treatment with 100 wells, three applications, and quarterly monitoring for three years. A total of 67,940 cubic yards will be excavated and disposed off-site with 353 confirmation samples and 136 disposal samples. Demolition of a bldg (16,323 square feet) will also be performed. MEC sifting of two acres and MEC characterization of three acres are also planned.
- Long-term management (LTM) will include annual monitoring of 12 wells for 10 years.

Site ID: FTWG-01
Site Name: TNT Beds, Deact Furn, Other Bldngs

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-07

Site Name: Lake Knudson Area

STATUS

Parcel: Parcel 13 (473 acres)

Regulatory Driver: RCRA

RRSE: MEDIUM

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Semi-volatiles (SVOC)

Media of Concern: Groundwater, Sediment, Soil, Surface Water

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 201512 |

RIP Date: N/A

RC Date: 201512

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. The parcel includes the following sites:

- AOC-53, Lake Knudson,
- AOC-54, Building 311 (Standard Magazine),
- AOC-55, Structure 506 (TNT Storage Barricade),
- AOC-56, Structure 533 (Explosive Barricade),
- AOC-86, Feature 15 on 1973 aerial photo (API-5) in 1995 archive search report, and
- AOC-57, Buildings 306, 307, 308, 309, 310 (Standard Magazines near Knudson Lake).

All the structures including the water tower inside the parcel are scheduled for demolition in 2010 pending funding. This will eliminate the overflow from the water tower into Lake Knudson, which means the lake will likely remain dry.

The parcel covers 473 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions include preparation of an RFI report followed by a permit closeout. Following permit closeout, no further action (NFA) is anticipated.

STATUS

Parcel: Parcel 7 (226 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Polychlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 201409 |
| DES..... | 201410..... | 201509 |
| CMI(C)..... | 201510..... | 201609 |
| LTM..... | 201610..... | 202109 |

RIP Date: N/A

RC Date: 201609

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. This parcel includes the following sites: SWMU-9, POL Waste Discharge Area; SWMU-25, Trash Burning Ground Property Disposal Office includes Features 1, 2, and 5 on the 1962 aerial photo API-3 (from the 1995 Archive Search Report); AOC-43, Railroad Classification Yard. Aerial magnetometry was performed at the site in January 2009.

The parcel covers 226 acres.

Please note that SWMU 20 was moved to Parcel 6.

CLEANUP/EXIT STRATEGY

The majority of the cost and effort for Parcel 7 will occur at SWMU 25. The primary COCs are explosives, metals, and semi-volatile organic compounds (SVOCs).

CTC assumptions include:

- The performance of a supplemental RFI will be performed with nine new wells and groundwater/soil sampling. A CMS will also be performed.
- The CM will consist of the excavation and off-site disposal of 6,250 cubic yards of soil with 33 confirmation samples and 13 disposal samples.
- LTM will include annual monitoring of six wells for five years.

A CMS will serve as the cost basis when completed and approved by the state.

Site Name: Admin Area, Sewage Treatment Plant

STATUS

Parcel: Parcel 11 (172 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern (MEC), Pesticides, Polychlorinated Biphenyls (PCB), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 201309 |
| DES..... | 201310..... | 201409 |
| CMI(C)..... | 201410..... | 201509 |
| LTM..... | 201510..... | 202509 |

RIP Date: N/A

RC Date: 201509

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 11 includes the following sites:

- SWMU-3, Fenced Storage Yard (Former Storage Yard or Defense Reutilization and Marketing Office (DRMO) Area, Extended Storage Yard, Former Coal Storage Area);
- SWMU-5, Building 5;
- SWMU-6, Building 11 (Former Locomotive Shop);
- SWMU-10, Sewage Treatment Plant [includes Buildings/Structures 22, T-37, 63, 69, 70, 71, 72, 73, 74a, 74b, 74c, 74d, 82, 83, document incinerator, Structure 745, drainage ditch, septic system at sewage treatment plant];
- SWMU-23, Building 8 (Paint Shop or Carpenter Shop) and Building 7 (Paint Shop and Paint Storage Warehouse);
- SWMU-24, Building 15 (Garage and Storage Bldg.);
- SWMU-37, Building 9 (Machine Shop and Signal Shop);
- SWMU-40, South Administration Area, formerly named the Coal Tar Storage Tanks (Structures 58, 59, and 60);
- SWMU-48 (Building 10), SWMU-49 (Building 12),
- SWMU-50 (Building 13), SWMU-51 (Building 29),
- SWMU-52 (Building T-33), SWMU-53 (Building 36), SWMU-54 (UST No. 5), AOC-55 (Structure T-49), AOC-56 (Building T-50), AOC-72 (Building 14), SWMU-77 (Building T-34), AOC-83 (Structure 63), and AOC-87 (Structure 57);
- SWMU-45, Building 6 (Gas Station);
- AOC-46, Above Ground Tank located near Bldg. 11;
- AOC-47, TPL Inc. spill of photoflash powder west of Bldg. 11;
- AOC-48, Building 34 (Fire Station);
- AOC-49, Structure 38 (End Loading Dock) and Structure 39 (Side Loading Dock);
- SWMU-50, Structure 35 [Underground Storage Tank (UST No. 7) located by Building 45];
- AOC-51, Structure 64 (UST);
- AOC-52, Building 79 and Building 80 (Storage Vaults).

Munitions debris was found in SWMU 10 (20 millimeters [mm] with potential for 37 and 40 mm). Additional munitions debris was found near buildings 12 and 13. The NMED approved the RFI work plan Aug 28, 2009. RFI fieldwork began in November 2009 and will continue through mid-2010.

Parcel 12 is no longer tied to the parcel 11 activities. The construction debris piles in parcel 12 were inside AOC-93 and were removed in October 2009. The Army will be submitting to the tribes a release assessment report (RAR) covering the debris pile removal in January 2010. The RAR will include Parcel 14 and AOC-75. The Army anticipates NFA for either parcel.

Parcel 11 covers 172 acres. Parcel 12 covers 160 acres.

CLEANUP/EXIT STRATEGY

Site ID: FTWG-11

Site Name: Admin Area, Sewage Treatment Plant

The majority of the cost and effort will occur at SWMUs 6, 10, 23, 24, 37, 40, 45, and 50 with anticipated soil removal.

CTC assumptions include:

- A CMS will be performed.
- The corrective measures implementation [Construction] (CMI[C]) phase will consist of the excavation and off-site disposal of 6,250 cubic yards of soil with 33 confirmation samples and 13 disposal samples. MEC sifting (two acres at the sewer plant) will also be performed.
- LTM will include annual monitoring of 38 wells for 10 years.

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-12
Site Name: Eastern Landfill

STATUS

Parcel: Parcel 18 (12 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides, Polychlorinated Biphenyls (PCB), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 201409 |
| DES..... | 201410..... | 201509 |
| CMI(C)..... | 201510..... | 201709 |
| LTM..... | 201709..... | 202709 |

RIP Date: N/A

RC Date: 201709

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. It includes SWMU-13 (Eastern Landfill) and represents a solid waste disposal area. It covers an area of approximately five acres. Use of the landfill was stopped in 1968. Detections of elevated metals and trace levels of explosives were found in groundwater samples.

Two geophysical surveys have been performed to define the landfill boundaries. Aerial magnetometry was performed at Parcel 18 in January 2009, confirming the locations of the trenches in the landfill site.

The parcel covers 12 acres, five of which consist of the landfill.

CLEANUP/EXIT STRATEGY

CTC assumptions include:

- Performance of a supplemental RFI with six new wells and groundwater sampling. A CMS will also be performed.
- The CM will consist of the excavation and off-site disposal of 18,750 cubic yards of soil and debris with 49 confirmation samples and 38 disposal samples.
- LTM will include annual monitoring of 10 wells for 10 years.

A CMS will serve as the cost basis when completed and approved by the state.

STATUS

Parcel: Parcel 14 (479 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives

Media of Concern: Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 201209 |

RIP Date: N/A

RC Date: 201209

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 14 includes AOC-93, Bivouac and Tank Training Area.

This site was identified as a result of an erroneous report that live fire occurred at this site. Interviews with the National Guard indicate no live fire occurred at Parcel 14. The Army received a letter from the former commander of the New Mexico National Guard stating no live fire occurred.

The RFA for Parcel 14 was conducted as part of the release assessment for Parcels 11 and 12. The Army proposed NFA to the tribes and regulators. The site will remain open until the NFA is approved by the state.

The parcel covers 479 acres.

CLEANUP/EXIT STRATEGY

No additional funding is required.

An NFA recommendation has been submitted.

STATUS

Parcel: Parcel 5 (230 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Polychlorinated Biphenyls (PCB)

Media of Concern: Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199005 |
| RFI/CMS..... | 199203..... | 200910 |
| DES..... | 201010..... | 201109 |
| CMI(C)..... | 201110..... | 201209 |

RIP Date: N/A

RC Date: 201209

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 5 includes AOC-78 [Feature 18 on 1973 aerial photo (API-5) in a 1995 archive search report]. The features in the aerial photograph are in the same location as former temporary storage buildings.

This parcel is divided by the west patrol road; 5B on the west and 5A on the east. Parcel 5B has been removed from the permit. Transfer documents were sent to the BLM on Nov 3, 2009 to transfer Parcel 5B containing 70 acres. Parcel 5 is included with the RAR for Parcel 6 that is under review by NMED.

The parcels cover 230 acres with 160 acres in 5A and 70 acres in 5B.

CLEANUP/EXIT STRATEGY

Parcel 5A will be investigated for contaminants resulting from demolition debris. Parcel 5A (AOC-78/82) will be included with the RAR for Parcel 6.

CTC assumptions are that the CM will consist of the excavation of 500 cubic yards, off-site disposal of 625 cubic yards of soil, and stabilization of 563 cubic yards. Four confirmation samples and two disposal samples will be taken.

A CMS will serve as the cost basis when completed and approved by the state.

STATUS

Parcel: Parcel 24 (427 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides

Media of Concern: Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 200910 |
| DES..... | 201010..... | 201109 |
| CMI(C)..... | 201010..... | 201309 |

RIP Date: N/A

RC Date: 201309

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 24 includes most of AOC-18 (Igloo Block A). The remaining portion of AOC-18 is part of Parcel 9. A RAR will be prepared for Parcel 24 in early 2010. Soils outside of Block A igloos and within revetments have been sampled.

The parcel covers 427 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions are that the CM will consist of the excavation and off-site disposal of 625 cubic yards of soil with 64 confirmation samples and two disposal samples.

A CMS is not anticipated for this site.

Site ID: FTWG-26

Site Name: Aerial Photo Feature

STATUS

Parcel: Parcel 9 (Army Retained) (196 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides, Polychlorinated Biphenyls (PCB)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 201409 |
| DES..... | 201410..... | 201509 |
| CMI(C)..... | 201410..... | 201709 |

RIP Date: N/A

RC Date: 201709

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 9 includes Area of Concern (AOC)-85 (Feature 11-1 on 1962 aerial photo [API-3] in 1995 Archive Search Report and Feature 1 [disturbed soils] on 1973 aerial photo [API-5] in 1995 Archive Search Report). This parcel also includes part of Igloo Block A. Soils outside of Block A igloos and within revetments have been sampled.

It is unknown at this point in time what the soil disturbance represents. It may represent former building sites. This parcel is being leased to the Missile Defense Agency (MDA).

The parcel covers 196 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions include

- A RAR will be prepared.
- The CM will consist of the excavation and off-site disposal of 625 cubic yards of soil with 34 confirmation samples and two disposal samples.

A CMS is not anticipated for this site.

Site Name: Igloo Blocks E,F,G, T-422, P-Range

STATUS

Parcel: Parcel 19 (Army Retained) (2187 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides, Polychlorinated Biphenyls (PCB), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 201509 |
| DES..... | 201510..... | 201609 |
| CMI(C)..... | 201610..... | 202109 |

RIP Date: N/A

RC Date: 202109

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 19 includes the following sites:

- AOC-31, Igloo Block E,
- AOC-32, Igloo Block F,
- AOC-34, Igloo Block G,
- SWMU-39, Pistol Range,
- AOC-58, Buildings 303 and 304 (Standard Magazines) and 320 (Field Dunnage Building along Arterial Road No. 3), and
- AOC-59, Building T-422 (former Bldg. X-11, Normal Maintenance Bldg., Bomb and Shell Paint Bldg.).

This site also includes part of AOC-30 (Igloo Block D).

This parcel covers 2,187 acres and is being leased to the MDA.

CLEANUP/EXIT STRATEGY

The majority of cost and effort for Parcel 19 is anticipated to occur at AOCs 31, 32, 34, and 59 with a soil removal. SWMU 39 will also be addressed in a soil removal. An RFA will also be completed at these sites. The RFA will be conducted as a supplement during the RFI phase.

CTC assumptions include:

- A supplemental RFI and a CMS will be performed.
- The CM will consist of the excavation and off-site disposal of 3,125 cubic yards of soil with 117 confirmation samples and seven disposal samples.

A CMS will serve as the cost basis when completed and approved by the state.

STATUS

Parcel: Parcel 2 (Army Retained) (2379 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides, Polychlorinated Biphenyls (PCB), White Phosphorous

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 199409..... | 199512 |
| RFI/CMS..... | 199605..... | 201509 |
| DES..... | 201510..... | 201609 |
| CMI(C)..... | 201610..... | 202109 |

RIP Date: N/A

RC Date: 202109

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 2 includes the following sites:

- SWMU-17, Western Rifle Range;
- SWMU-22, Group C Landfill;
- AOC-35, Igloo Block H;
- AOC-36, Igloo Block J [includes Missile Launch Pad used by the MDA];
- AOC-76, Feature 19 on the 1973 aerial photo (API-5) in the 1995 archive search report;
- AOC-77, Feature 20 on the 1973 aerial photo (API-5) in the 1995 archive search report.

Part of Igloo Block C is also included in this parcel. The OB/OD kickout area extends into Parcel 2. This parcel is being leased to the MDA.

The parcel covers 2,379 acres.

CLEANUP/EXIT STRATEGY

The majority of costs and effort for Parcel 2 is anticipated to occur at SWMUs 17 and 22, and at AOCs -35, -36, and -77 with soil removals.

CTC assumptions include:

- A supplemental RFI with five new wells and groundwater sampling (wells are then abandoned). A CMS will also be performed.
- The CMI(C) will consist of the excavation of 3,500 cubic yards, off-site disposal of 4,625 cubic yards of soil, and stabilization of 2,500 cubic yards. Eighty-three confirmation samples and 10 disposal samples will be taken.

A CMS will serve as the cost basis when completed and approved by the state.

STATUS

Parcel: Parcel 23 (239 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides, Polychlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 199409..... | 199512 |
| RFI/CMS..... | 199605..... | 201309 |
| DES..... | 201310..... | 201409 |
| CMI(C)..... | 201410..... | 201809 |

RIP Date: N/A

RC Date: 201809

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 23 includes the following sites: SWMU-21, Central Landfill, and AOC-73, Former buildings or structures along Road C-3.

All solid waste was removed from SWMU-21 in 1999 and disposed in a permitted off-site landfill. The remedial investigation (RI) found SVOCs and metals exceeding background. Post-excavation found residual levels of SVOCs, pesticides, and metals. A RFI work plan was submitted to the NMED on April 29, 2009 and is under review.

The parcel covers 239 acres.

CLEANUP/EXIT STRATEGY

Soil removals are anticipated to be conducted at SWMU-21 and at AOC-73.

CTC assumptions include:

- A CMS will be performed.
- The CMI(C) will consist of the excavation and off-site disposal of 2,500 cubic yards of soil with 13 confirmation samples and five disposal samples.

A CMS will serve as the cost basis when completed and approved by the state.

STATUS

Parcel: Parcel 10 (595 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Polychlorinated Biphenyls (PCB), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 201209 |

RIP Date: N/A

RC Date: 201209

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 10 includes SWMU-26 (Suspected Petroleum, Oil and Lubricant) (POL) Area) consisting of a large berm north of the Railroad Classification Yard, and AOC-44 (the former administration and utilities area).

The berm was previously sampled and acetone (suspected laboratory contaminant) was detected. Lead was also detected. This parcel is divided; 10B on the east and 10A on the west. A Class 1 permit modification was submitted to NMED in December 2009 for the removal of Parcel 10A from the permit. NMED has given verbal approval for this action. SWMU-26 and AOC-44 were sampled in 2009 under verbal approval by NMED. A RAR documenting the results was submitted to NMED on Nov 1, 2009. The Army recommended NFA.

Parcel 10A covers 483 acres and 10B covers 112 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions include a permit closeout in the RFI phase.

STATUS

Parcel: Parcel 22 (628 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Perchlorate, Pesticides, Polychlorinated Biphenyls (PCB), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 199203..... | 201209 |
| DES..... | 201210..... | 201309 |
| CMI(C)..... | 201310..... | 201609 |
| LTM..... | 201610..... | 202609 |

RIP Date: N/A

RC Date: 201609

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 22 includes the following sites:

- All of AOC-30 (Igloo Block D),
- SWMU-12, Building 536 (Inspectors Workshop and Ammunition Renovation Depot) (includes one former PCB transformer),
- SWMU-27, Building 528 Complex. This includes Building 528 (Ammunition Normal Maintenance Building), Building 528A (temporary storage igloo), AOC-121 [Building 528B (temporary storage igloo), AOC-122 (Building 529), AOC-125 (Building 550, vacuum collector barricade)],
- AOC-69, Buildings 301, 302, and 312 (Standard Magazines), Building 316 (Field Lunch Room),
- SWMU-70, Disassembly Plant and TPL Inc. Quality Assurance (QA) Test Area (Disassembly Plant includes Building 517, Structure 518, Building 519, Structure 520, Structure 521, Structure 547),
- AOC-71, Former rectangular structure near TMW-5 and north of Bldg. 528, and
- AOC-88, Former buildings or structures and disposal areas southwest, south, and southeast of Bldg. 528.

Perchlorate was detected in groundwater and soil.

This parcel was leased to TPL, Inc. with an expiration date of March 31, 2007. They have since vacated the area. The revised final RFI work plan was approved, with modifications, on Jan 28, 2010. NMED approved the location of monitor wells in the parcel in advance of the work plan approval. The wells were installed in January 2010.

The parcel covers 628 acres.

CLEANUP/EXIT STRATEGY

A soil removal is anticipated for SWMUs 12, 27, and 70. A soil removal is also anticipated for AOC 30. In situ groundwater treatment is expected for the northern portion of the parcel.

CTC assumptions include:

- Performance of a CMS.
- The CM will include in situ groundwater treatment with 100 wells, three applications, and quarterly monitoring for three years. A total of 10,125 cubic yards will be excavated and disposed off-site with 53 confirmation samples and 21 disposal samples. An in-place closure of a septic tank and cess pool and a building demolition (8,000 square feet (sf)) will also be performed. The CM will also include work to address the TPL impacts. This includes excavation and off-site disposal of 625 cubic yards of soil with four confirmation samples and two disposal samples.
- LTM will include annual sampling of eight wells for 10 years.

A CMS will serve as the cost basis when completed and approved by the state.

STATUS

Parcel: NONE

Regulatory Driver: RCRA

RRSE: NOT EVALUATED

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern (MEC), Perchlorate, Pesticides, Polychlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC), White Phosphorous

Media of Concern: Groundwater, Soil, Surface Water

BRAC Round: BRAC I

| Phases | Start | End |
|-------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| CMI(C)..... | 200610..... | 201909 |

RIP Date: N/A

RC Date: 201909

SITE DESCRIPTION

This site addresses permit-related site-wide tasks. These tasks include groundwater sampling, cultural resources support, program management, operational record, conditional exemption storage, and annual revision of interim plan. It also includes MEC clearance in the arroyos, MEC avoidance, Ecological Risk Assessment, Geographic Information Systems (GIS)/Environmental Information Management Systems, building demolition, and igloo/revetment sampling.

Semiannual groundwater sampling continues with reports being submitted to the NMED. Additional wells were added for investigations at parcels 11 and 22. The Army requested to the State that off-site sampling be discontinued and is awaiting a response. A natural resource damage action has been initiated and the Army and other trustees are evaluating potential restoration alternatives due to natural resource damages. The eight conditional exemption igloos are being maintained and inspected. An ecological risk assessment work plan is near completion. Ecological zones have been established. The soil background report was submitted to the NMED. A building demolition contract will be awarded to remove structures necessary to support environmental investigations and cleanup. Additional sampling will be performed at igloo blocks A, C, and D due to lead detections.

CLEANUP/EXIT STRATEGY

CTC assumptions include:

- The CM will include groundwater sampling at Parcel 3 (OB/OD) for nine years and at Parcels 11, 21, and 22 (North Area) for five years.
- The CM will also include the following actions over a period of five years for site-wide support at the installation: MEC clearance in the arroyos, MEC avoidance, ecological risk assessment, GIS/Environmental Information Management Systems support, operational record support, conditional exemption storage, annual revision of the interim plan, and USACE support.
- The CM will also include 3,428 soil samples from igloos and revetments. A total of 88,522 sf of buildings will be demolished and 44 confirmation samples will be taken.

STATUS

Parcel: Parcel 4 (429 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 200610..... | 200910 |
| DES..... | 200810..... | 201109 |
| CMI(C)..... | 201010..... | 201409 |

RIP Date: N/A

RC Date: 201409

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 4 includes a portion of AOC-29 (Igloo Block C). Although part of AOC-78 is found under Parcel 4, it will be addressed entirely under Parcel 6.

One of nine surface soil samples tested positive for HMX (2.29ppm - below residential screening levels).

This parcel is divided by the west patrol road; 4B on the west and 4A on the east. Transfer documents were sent to the BLM on Nov 3, 2009 to transfer Parcel 4B containing 168 acres. The drain outfalls and aprons of all igloos (entire C-Block) were sampled for lead and explosives. In addition all revetments were sampled for lead and explosives in June 2008. A RAR documenting the sampling was sent to NMED in March 2009. NMED reviewed the report and wants additional sampling at drain outfalls and one revetment due to lead concentrations. NMED also wants all igloo interiors sampled for Target Analyte List (TAL) metals and explosives at seven locations per igloo. NMED is requiring sampling of all 732 igloo interiors on post. Army is currently determining a course of action.

The parcels cover 428 acres with 260 acres in 4A and 168 in 4B.

CLEANUP/EXIT STRATEGY

CTC assumptions are that the CM will consist of the excavation and off-site disposal of 625 cubic yards of soil with 34 confirmation samples and two disposal samples.

A CMS will serve as the cost basis when completed and approved by the state.

STATUS

Parcel: Parcel 6 (1035 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Asbestos, Explosives, Metals, Pesticides, Polychlorinated Biphenyls (PCB), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 198910..... | 199004 |
| CS..... | 198910..... | 199004 |
| RFI/CMS..... | 200102..... | 201309 |
| DES..... | 201310..... | 201409 |
| CMI(C)..... | 201410..... | 201509 |
| LTM..... | 201510..... | 202009 |

RIP Date: N/A

RC Date: 201509

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 6 includes the following sites:

- AOC-82, Feature 18 on 1973 aerial photo (API-5) in 1995 archive search report. It includes SWMU-4, Building 600 (Building 539, Ammunition Work Shop Area Change House and Laundry),
- SWMU- 8, Building 537 (Pesticide and Field Battery Shop),
- SWMU-11, Building 542 (Ammunition Workshop) and Building 541 (Army Environmental Database - Restoration (AEDB-R) lists as Building 542/600),
- SWMU-20, Western Landfill, includes Features 3 and 4 on 1962 air photo API-3 (1995 archive search report),
- AOC-28, Igloo Block B,
- AOC-42, Building 516 (Ammunition Receiving Building),
- AOC-79, Feature 2 on 1973 aerial photo (API-5) in 1995 archive search report,
- AOC-80, Feature 9 on 1962 aerial photo (API-3) in 1995 archive search report,
- AOC-81, Feature 11 on 1962 aerial photo (API-3) in 1995 archive search report,
- AOC-83, Feature 22 on 1973 aerial photo (API-5) in 1995 archive search report, and
- AOC-84, Feature 12 on 1962 aerial photo (API-3) in 1995 archive search report.

This parcel was leased to TPL, Inc. with an expiration date of March 31, 2007. They have since vacated the area. The RFI work plan was disapproved by NMED in a letter dated Feb 4, 2010. A revised work plan is due April 30, 2010. Aerial magnetometry was performed at the site in January 2009. Several anomalies were found; however, most are expected to be non-MEC related debris. No MEC is expected. Anomalies will be investigated as part of the RI/FS process. Soils outside of Block B igloos and within revetments have been sampled.

The parcel covers 1,035 acres.

CLEANUP/EXIT STRATEGY

A soil removal is anticipated for SWMUs 8, 11, and 20. A soil removal is also anticipated for AOCs 28 and 42. AOC-78/82, which lies in parcels 6, 5A, and 4A, will be included in the RAR for parcel 6.

CTC assumptions include:

- The performance of a CMS.
- The CM will consist of the excavation and off-site disposal of 10,625 cubic yards of soil with 56 confirmation samples and 22 disposal samples. The CM will also include work to address the TPL impacts. This includes excavation and off-site disposal of 3,750 cubic yards of soil with 39 confirmation samples and eight disposal samples.
- LTM will include annual sampling of four wells for five years.

A CMS will serve as the cost basis when completed and approved by the state.

BRAC-IRP Schedule

Date of BRAC-IRP Inception: 198910

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 |
|---------|-------------------------------------|--------------|-------------|
| FTWG-21 | Igloo Block A | Parcel 24 | 20150930 |
| FTWG-26 | Aerial Photo Feature | Parcel 9 | 20160930 |
| FTWG-27 | Igloo Blocks E,F,G, T-422, P-Range | Parcel 19 | 20200930 |
| FTWG-28 | Group C Landfill, West Rifle Range | Parcel 2 | 20200930 |
| FTWG-63 | W Landfill, TNT Wrkshp, Igloo Blk B | Parcel 6 | 20150930 |
| FTWG-12 | Eastern Landfill | Parcel 18 | 20180930 |
| FTWG-30 | Central Landfill | Parcel 23 | 20160930 |
| FTWG-10 | POL Area, RR Classification Yard | Parcel 7 | 20190930 |
| FTWG-11 | Admin Area, Sewage Treatment Plant | Parcel 11 | 20140930 |
| FTWG-38 | Igloo Bock D, Ammo Workshop | Parcel 22 | 20140930 |
| FTWG-01 | TNT Beds, Deact Furn, Other Bldngs | Parcel 21 | 20130930 |
| FTWG-36 | POL Area, Fmr Admin and Utilities | Parcel 10 | 20170930 |
| FTWG-49 | Igloo Block C | Parcel 4 | 20120930 |
| FTWG-07 | Lake Knudson Area | Parcel 13 | 20140930 |
| FTWG-18 | Former Structures or Buildings | Parcel 5 | 20130930 |

Final RA(C) Completion Date: 202109

NPL Deletion Date: TBD

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of BRAC-IRP at Installation (including LTM phase): 203109

FORT WINGATE DEPOT ACTIVITY BRAC-IRP Schedule

█ = phase underway

| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
|---------|------------------------------------|---------|------|------|------|------|------|-------|
| FTWG-01 | TNT Beds, Deact Furn, Other Bldngs | RFI/CMS | █ | █ | | | | |
| | | DES | | | █ | | | |
| | | CMI(C) | | | | █ | █ | █ |
| | | LTM | | | | | | █ |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-07 | Lake Knudson Area | RFI/CMS | █ | █ | █ | █ | █ | █ |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-10 | POL Area, RR Classification Yard | RFI/CMS | █ | █ | █ | █ | | |
| | | DES | | | | | █ | |
| | | CMI(C) | | | | | | █ |
| | | LTM | | | | | | █ |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-11 | Admin Area, Sewage Treatment Plant | RFI/CMS | █ | █ | █ | | | |
| | | DES | | | | █ | | |
| | | CMI(C) | | | | | █ | |
| | | LTM | | | | | | █ |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-12 | Eastern Landfill | RFI/CMS | █ | █ | █ | █ | | |
| | | DES | | | | | █ | |
| | | CMI(C) | | | | | | █ |
| | | LTM | | | | | | █ |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-15 | Bivouac and Tank Training Area | RFI/CMS | █ | █ | | | | |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-18 | Former Structures or Buildings | DES | █ | | | | | |
| | | CMI(C) | | █ | | | | |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-21 | Igloo Block A | DES | █ | | | | | |
| | | CMI(C) | █ | █ | █ | | | |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-26 | Aerial Photo Feature | RFI/CMS | █ | █ | █ | █ | | |
| | | DES | | | | | █ | |
| | | CMI(C) | | | | | | █ |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-27 | Igloo Blocks E,F,G, T-422, P-Range | RFI/CMS | █ | █ | █ | █ | █ | |
| | | DES | | | | | | █ |
| | | CMI(C) | | | | | | █ |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-28 | Group C Landfill, West Rifle Range | RFI/CMS | █ | █ | █ | █ | █ | |
| | | DES | | | | | | █ |
| | | CMI(C) | | | | | | █ |

FORT WINGATE DEPOT ACTIVITY BRAC-IRP Schedule

| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
|---------|-------------------------------------|---------|------|------|------|------|------|-------|
| FTWG-30 | Central Landfill | RFI/CMS | | | | | | |
| | | DES | | | | | | |
| | | CMI(C) | | | | | | |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-36 | POL Area, Fmr Admin and Utilities | RFI/CMS | | | | | | |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-38 | Igloo Bock D, Ammo Workshop | RFI/CMS | | | | | | |
| | | DES | | | | | | |
| | | CMI(C) | | | | | | |
| | | LTM | | | | | | |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-42 | Site-wide Tasks | CMI(C) | | | | | | |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-49 | Igloo Block C | DES | | | | | | |
| | | CMI(C) | | | | | | |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-63 | W Landfill, TNT Wrkshp, Igloo Blk B | RFI/CMS | | | | | | |
| | | DES | | | | | | |
| | | CMI(C) | | | | | | |
| | | LTM | | | | | | |

FORT WINGATE DEPOT ACTIVITY

Base Realignment and Closure
Military Munitions Response Program

BRAC-MMRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) BRAC Sites/Closeout Sites Count: 5/2

Sites planned for RIP for FY2011

| Site ID | Site Name | Month |
|---------|-----------|-------|
| N/A | | |

Sites planned for RC for FY2011

| Site ID | Site Name | Month |
|---------|-----------|-------|
| N/A | | |

Installation Site Types with Future and/or Underway Phases*

- 2 Firing Range
(FTWG-001-R-01, FTWG-003-R-01)
- 1 Open Burn
(FTWG-002-R-01)

Most Widespread Contaminants of Concern*

Explosives, Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC), Perchlorate, Pesticides, Polychlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern*

Groundwater, Sediment, Soil, Surface Water

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

| Site ID | Site Name | Action | Remedy | FY | Cost |
|---------|-----------|--------|--------|----|------|
| N/A | | | | | |

Duration of BRAC-MMRP

Date of BRAC-MMRP Inception: 198910
 Date for Remedy-In-Place (RIP)/Response Complete (RC): 202109/202109
 Date of BRAC-MMRP completion including Long Term Management (LTM): 202809

*Note: This does not include sites closed prior to installation being identified as BRAC.

BRAC-MMRP Contamination Assessment

Contamination Assessment Overview

Off-post MEC and munitions debris (MD) have been found on the west side of Parcel 3 stemming from detonations at the two OB/OD grounds. A 250-acre area located to the west of the OB/OD areas, outside the FWDA western property boundary, was cleared to a depth of one foot below ground surface (bgs) in 1995 (UXB, 1995). This area consisted of off-site property identified as being contaminated with surficial MEC and MD from historical OB/OD area operations ("kickout"), during a site survey conducted by the USACE, Huntsville Division. Additional MEC and munitions waste lie to the south, and possibly east of Parcel 3 in Parcel 1, which has already been transferred to the DOI. Additional survey and removal are required under the permit to address this issue.

Parcel 3 is a designated improved conventional munitions area, meaning anti-personnel sub-munitions exist in the area (BLU-3, BLU-4). The area of the Kickout Area has been determined to be 2,403 acres. Approximately 560 acres of this area lies off depot. The NMED approved the Kickout Area Delineation Report in 2010.

A PBA will be awarded for the development of the OB/OD HWMU Closure Plan, CAMU (detonation crater and burn structures) construction, HWMU removal and site restoration, and the replacement of the Parcel 3 east and south fence. The RCRA Class 3 permit mod to construct the CAMU is under NMED review.

Munitions known to have been stored or demilitarized at FWDA are:

Projectiles:

| | |
|----------------------|---------------------------|
| 20mm HEI | 90mm Gun, HE, M71 |
| 37mm APC-T, M51 | 90mm Gun, HE-T, T91 |
| 37mm HE, M63 | 90mm Gun, APC-T, M82 w/BD |
| 40mm HE-T, MK27 | Fuze M52 |
| 57mm Gun, APC-T, M86 | 105mm Howitzer, WP, M60 |
| 57mm RR, HE, M306A1 | 105mm Smoke, HC, M84 |
| 60mm HE, M49A2 w/PD | 105mm WP, T19E2 (mortar) |
| Fuze M52 | 4.2" HE, M329 w/PD M51A4 |
| 3" APHE | 4.5" Prop Charge(rocket?) |
| 75mm Gun, APC-T, M61 | 120mm Prop Charge |
| 75mm Gun, HE, T50E2 | 155mm Howitzer, HE, M101 |
| 75mm HE, M41A1 w/PD | 155mm WP, M110 |
| Fuze M48 | 155mm Prop Charge |
| 75mm Howitzer, HE | 6" Gun Prop Charge |
| M48A1 | 8" Howitzer, HE, M103 |
| 76mm APC-T, M62A1 | 240mm |
| 81mm WP, M57 w/PD | Fuze 81mm HE, M43A1 |
| M52A2 | |

Bombs:

| | |
|------------------------|-------------------------|
| 3-lb. Demolition | 750-lb. Demolition |
| 8-lb. Drift Signal | 1,000-lb. GP, M44 |
| 20-lb. Frag | 1,000-lb. SAP, AN-M59A1 |
| 23-lb. Frag, TNT, M72 | 2,000-lb. GP, AN-M66 |
| 90-lb. Frag, M82 | 2,000-lb. GP, AN-M34 |
| 100-lb. GP | 2,000-lb. LC, T9 |
| 100-lb. GP, AN-M64 | 10,000-lb. Demolition, |
| 100-lb. Frag, M1A1 | T56E2 |
| 250-lb. GP | M83 "Butterfly" |
| 500-lb. GP, AN-M64 | BLU-3 |
| 500-lb. Demolition M43 | BLU-4 |
| 500-lb. Frag, M26 | Firebomb (napalm) |

Other Munitions:

| | |
|------------------------|------------------------------|
| 2.75" Rocket | Mine, AP, M2, M2A1, M2A4, M3 |
| 3.25" Target Rocker | Mine, AT, M15 |
| 3.5" Rocket, WP, M30 | Mine, M6 |
| 3.5" Rocket, Practice, | Hand Grenade, Frag, M26 |
| M29A2 | TNT, bulk |

BRAC-MMRP Contamination Assessment

4.5" Rocket, HE, T22 Rocket-propelled grenade,
5" Rocket PG-9
Nike Missile Trip Flare, M49
Fuze, Flare, Mech Commercial (Police) gas
Time, M11 bomb (DM)

FORT WINGATE DEPOT ACTIVITY

Military Munitions Response Program

Site Descriptions

Site ID: FTWG-001-R-01
 Site Name: F. Test Range 2/3, Other Bldgs

STATUS

Parcel: Parcel 16 (871 acres)

Regulatory Driver: RCRA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC), Perchlorate, Pesticides, Polychlorinated Biphenyls (PCB), Semi-volatiles (SVOC)

Media of Concern: Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 200205..... | 200305 |
| RFI/CMS..... | 200910..... | 201309 |
| DES..... | 201310..... | 201409 |
| CMI(C)..... | 201410..... | 201909 |

RIP Date: N/A

RC Date: 201909

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. The site was SWMU 14 (as an interim designation in the Draft Permit). It includes the following sites: SWMU-16, FTR 2/3; AOC-41, Igloo Block K.

The RI at SWMU-16 found elevated barium and lead in one sediment sample. MEC was surface cleared in 1998. Bulk high explosive (less than five lbs) was found on the ground surface in the area of one pre-1940s magazine. One each of 20mm practice, 20mm practice-tracer, and 37mm armor-piercing rounds were found and removed.

An interim remedial action (IRA) soil removal is anticipated to occur at AOC-41. Minimal MEC clearance is anticipated at SWMU-16. An RFI is anticipated for SWMU-16 and an RFA is anticipated for AOC-41. The RFA will be conducted as a supplement in the RFI phase. Aerial magnetometry was performed at the site in January 2009. Anomalies were detected and will be investigated during the RI/FS phase. No significant amounts of MEC items are expected.

FTR No. 2 was used in the 1960s to test a variety of munitions, rockets, and mortars. FTR No. 3 was used in the same period to test high explosives.

The parcel covers 871 acres.

CLEANUP/EXIT STRATEGY

A soil removal is anticipated to occur at AOC 41. MEC clearance and an RFI (already funded) are anticipated at SWMU 16.

CTC assumptions include:

- Performance of a CMS. Geophysical mapping of approximately 700 acres will also be performed.
- The CM will consist of the excavation and off-site disposal of 625 cubic yards of soil with four confirmation samples and two disposal samples. The CM will also include MEC surface clearance of 611 acres and subsurface clearance of 61 acres.

A CMS will serve as the cost basis when completed and approved by the state.

STATUS

Parcel: Parcel 3 (1807 acres)
 Regulatory Driver: RCRA
 Program: BRAC-MMRP
 MRSPP Score: Evaluation pending
 Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC), Perchlorate, Polychlorinated Biphenyls (PCB), Semi-volatiles (SVOC), Volatiles (VOC)
 Media of Concern: Groundwater, Sediment, Soil, Surface Water
 BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 200205..... | 200305 |
| RFI/CMS..... | 200610..... | 201209 |
| DES..... | 201010..... | 201609 |
| IRA..... | 200609..... | 201809 |
| CMI(C)..... | 201010..... | 201809 |
| LTM..... | 201810..... | 202809 |

RIP Date: N/A
 RC Date: 201809

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. It was SWMU-15 (as an interim designation) in the draft permit.

- The OB/OD area includes the following sites,
- SWMU-14, Old Burning Ground and Demolition Landfill Area,
 - SWMU-15, Old Demolition Area,
 - SWMU-33, Waste Pile KP1,
 - SWMU-74, Area or Site 16 (Proposed Burning Ground),
 - AOC-89, Feature 30 and Feature 34 on 1973 aerial photo (API-5) in 1995 archive search report,
 - AOC-90, Feature 36 on 1973 aerial photo (API-5) in 1995 archive search report,
 - AOC-91, Feature 41 in the 1973 aerial photo (API-5) and Feature 27 on the 1978 historic aerial photo (API-7) in the 1995 archive search report, and
 - AOC-92, Feature 31 on the 1973 historic aerial photo (API-5) and Feature 21 on the 1978 aerial photo (API-7) in the 1995 archive search report.

Parts of Parcel 3 were used for OB/OD for off-spec, obsolete and waste munitions, and explosives from 1940 to 1993. Types of munitions disposed of at Parcel 3 included large caliber artillery projectiles, general purpose bombs, improved conventional munitions (BLU-3 and BLU-4), M-83 Butterfly Bombs, and munition components. An improved conventional munitions waiver was approved by the Army Safety Office on Aug. 20, 2008 allowing work to be done in Parcel 3.

The current OB/OD operation at the site occurred under RCRA interim status; therefore, this portion of the OB/OD area will be closed as an HWMU in accordance with RCRA Subtitle C. A PBA will be awarded for HWMU removal and south and east fence construction on Parcel 3, funds for which will be required in FY11-14. Aerial magnetometry was performed at Parcel 3 in January 2009, confirming the location of the impacted areas in the HWMU, SWMU 14, 15, and AOC 92.

Assumptions for this parcel were developed according to the RCRA permit which addresses the parcel in its entirety. It is possible that portions or all of this parcel will be retained by the Army. The kickout area extends beyond depot property, requiring coordination with off-post property owners. The final acreage of the kickout area is 2,403 acres. This acreage excludes areas that are too steep to remove MEC.

In 2006, approximately three miles of chain-link fence was installed along the western boundary of Parcel 3 as required in the permit. A geophysical prove-out area was established just north of Parcel 3. Aerial magnetometry was performed in January 2009 at the HWMU and SWMU 14 areas.

The parcel covers 1,807 acres.

CLEANUP/EXIT STRATEGY

Assumptions for this parcel were developed according to the RCRA permit which addresses the parcel in its entirety. It is possible that portions of this parcel will be retained by the Army.

CTC assumptions include:

- The IRA will include the Kickout Area MEC surface clearance (2,403 acres).

- The CM will consist of:

 - CM: Arroyo diversion excavation of 27,778 cubic yards and off-site MEC characterization of 200 acres.

 - CM-DA: 20 acres of MEC clearance to depth, 48 confirmation samples, and offsite disposal of 250 cubic yards.

 - CM-HWMU: Closure of the HWMU in Parcel 3 is based on Remedial Action Cost Engineering and Requirements (RACER), assuming excavation (five-foot depth) and MEC Sifting of 30 acres and off-site disposal of 151,250 cubic yards of non hazardous waste. USACE oversight of the planned PBA contract is also included.

 - CM-Final - MEC clearance to depth (65 acres), 156 confirmation samples, and off-site disposal of 200 cubic yards (from MEC clearance),

 - LTM will include annual sampling of 42 wells for 10 years.

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-003-R-01
Site Name: Functional Test Range 1

STATUS

Parcel: Parcel 20 (Army Retained) (1693.82 acres)

Regulatory Driver: RCRA

Program: BRAC-MMRP

MRSP Score: Evaluation pending

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern (MEC), Munitions constituents (MC), Perchlorate, Polycyclic Aromatic Hydrocarbons (PAH)

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

| Phases | Start | End |
|--------------|-------------|--------|
| RFA..... | 200205..... | 200305 |
| RFI/CMS..... | 200306..... | 201509 |
| DES..... | 201510..... | 201609 |
| CMI(C)..... | 201610..... | 202109 |

RIP Date: N/A

RC Date: 202109

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. It includes the following site: SWMU-38, FTR 1.

A limited RFI found explosives, elevated metals, and POLs in selected areas. MEC found at Parcel 20 included propellant grains, 75mm smoke rounds, 60mm mortars, fuzes, and boosters. More than 124 total items were found.

This parcel is being leased by the MDA.

FTR No. 1 is located in the east central part of the fort and was used for powder burning in the 1940s and for testing flares and grenades in the 1950s. Aerial magnetometry was performed at the site in January 2009. Anomalies were detected and will be investigated during the RI/FS phase.

The parcel covers 1,694 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions include:

- Performance of a supplemental RFI with three new wells and groundwater sampling (wells are then abandoned) and a CMS. Geophysical mapping will also be performed under the MEC site characterization and removal assessment.
- The CM will consist of the excavation and off-site disposal of 6,250 cubic yards of soil with 33 confirmation samples and 13 disposal samples. The CM will also include MEC surface clearance of 378 acres and subsurface clearance of 38 acres.

A CMS will serve as the cost basis when completed and approved by the state.

BRAC-MMRP Schedule

Date of BRAC-MMRP Inception: 198910

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 |
|---------------|--------------------------------|--------------|-------------|
| FTWG-002-R-01 | OB/OD Area | Parcel 3 | 20200930 |
| FTWG-003-R-01 | Functional Test Range 1 | Parcel 20 | 20190930 |
| FTWG-001-R-01 | F. Test Range 2/3, Other Bldgs | Parcel 16 | 20170930 |

Final RA(C) Completion Date: 202109

NPL Deletion Date: TBD

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of BRAC-MMRP at Installation (including LTM phase): 202809

FORT WINGATE DEPOT ACTIVITY BRAC-MMRP Schedule

= phase underway

| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
|---------------|--------------------------------|---------|------|------|------|------|------|-------|
| FTWG-001-R-01 | F. Test Range 2/3, Other Bldgs | RFI/CMS | | | | | | |
| | | DES | | | | | | |
| | | CMI(C) | | | | | | |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-002-R-01 | OB/OD Area | RFI/CMS | | | | | | |
| | | DES | | | | | | |
| | | IRA | | | | | | |
| | | CMI(C) | | | | | | |
| | | LTM | | | | | | |
| SITE ID | SITE NAME | PHASE | FY11 | FY12 | FY13 | FY14 | FY15 | FY16+ |
| FTWG-003-R-01 | Functional Test Range 1 | RFI/CMS | | | | | | |
| | | DES | | | | | | |
| | | CMI(C) | | | | | | |

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): 200609

Restoration Advisory Board (RAB): RAB established 1994

RAB Adjournment Date: 200703

RAB Adjournment Reason: There is no longer sufficient, sustained community interest.

Additional Community Involvement Information

A RAB was formed for FWDA in 1994. RAB meetings were generally held on a quarterly basis from 1993 until mid-2004, when the meetings between March 2004 and March 2006 were suspended, pending issuance of the RCRA permit. From February 1997 until March 2004, the BRAC cleanup team (BCT) met on a quarterly basis, with the RAB meeting two to four times per year during this period.

During mid-1993 environmental restoration activities at FWDA in support of the BRAC closure of the installation were initiated in earnest. Regularly scheduled contact with the Navajo and Zuni through the RAB process was initiated in the fall of 1994. In February 1994 the BCT was established with formal members of the BCT consisting of the FWDA BEC and the designated points of contact from the NMED, the USEPA Region 6, and the DOI. To date, tribal interests at the BCT have been represented by the DOI, as a formal member of the BCT. The Zuni and Navajo have been included as ancillary members of the BCT since December 1997; each tribe has been represented at most, if not all, of the meetings.

As part of the BCT and RAB process, all undertakings associated with the environmental restoration program at FWDA are routinely proposed well in advance of implementation (usually at the draft work plan stage) and discussed with the BCT and attendees. If possible, consensus decisions regarding specific activities are reached and plans are modified. As undertakings are implemented, interim progress reports are presented during the conduct of each specific activity.

In addition to the regularly scheduled BCT and RAB meetings concerning the environmental restoration activities at FWDA, in August 2002 FWDA initiated formal government-to-government consultation with the Navajo Nation and the Pueblo of Zuni, specifically regarding cultural resources within the OB/OD area subject to closure (i.e., environmental cleanup) under RCRA. In September 2003 the Army initiated a cooperative project with the Pueblo of Zuni, the Navajo Nation, and the National Association of Tribal Historic Preservation Officers for the identification and study of sacred sites and TCPs within the OB/OD Area. A number of interviews with tribal informants, facilitated by coordination with the tribes, are documented in an interim report. These activities provided significantly expanded information regarding the presence of, and cultural significance associated with, numerous sacred resources and TCPs that were previously identified by installation-wide cultural resource surveys conducted by FWDA from 1991 through 1996.

In addition, FWDA was included in a study, sought to identify and evaluate key issues of concern to communities, regarding activities and operations at and around federal facilities conducted by National Environmental Justice Advisory Council (NEJAC) (see Section 3.0), as authorized by the USEPA Office of Environmental Justice. Native Americans representing a wide range of age groups within their communities were interviewed, as were members of the environmental restoration teams, from both the regulator and regulated perspectives. Input and recommendations from this study have been incorporated into the FWDA community relations plan (CRP) and consultation plan.

The RAB was reactivated in September 2006, as work to implement the permit began. Public attendance was poor, so the Army conducted an interest survey to determine if the RAB should remain active. In March 2007, after there was no response to the interest survey requests placed in the local media, the FWDA BEC chose to inactivate the RAB. Another survey was performed on Oct. 27, 2008 to determine whether there was enough interest to reactivate the RAB. The minimal response did not support reactivation; however BCT meetings will continue to be held about twice a year. The FWDA RAB has not taken part in the TAPP program to date.

Administrative Record is located at

Fort Wingate Depot Activity
Building 1

Community Involvement

Installation Headquarters
Fort Wingate, NM 87316

Information Repository is located at

Gallup Federal Building
Conference Room 162
301 West Hill
Gallup, NM 87316

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

TAPP Title: N/A

Potential TAPP: N/A

