

FY2009

FORT WINGATE DEPOT ACTIVITY

Base Realignment & Closure
Installation Action Plan

Printed 30 September 2009

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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 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

BRAC-NCR

Primary Concerns:

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 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. Small manufacturing includes 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:	7,197.00	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:	7,469.00	2,678.00
Acres in Category 7:	0.00	0.00

Lead Organization

Base Realignment and Closure Division

Lead Executing Agencies for Installation

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

Projected Date of Final Transfer of Property: 202009

National Priorities List (NPL) Status

No NPL Sites have been identified

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

Installation Program Cleanup Progress

BRAC-IRP

Prior Year Progress: The US Geological Survey (USGS) performed geophysical groundwater investigation in the northern area. Aerial magnetometry was performed over the eastern and western landfills.

Future Plan of Action: The soil background report & work plans for parcels 4a, 5a, 6, & 23 will be submitted to the NMED. Work plans will be finalized & RFI fieldwork performed for Parcels 11, 12, 14, 21, 22, 24. Fieldwork also will begin on parcels 6, 10a, 10b, & 23. Building demolition will occur in the workshop area. Parcels 25, 4b, 5b, & 8 will be prepared for transfer. Facility-wide ecological field sampling will be conducted. 1354 forms for Parcels 10a, 12, 14 will be prepared for BIA signature for transfer.

BRAC-MMRP

Prior Year Progress: Semiannual groundwater monitoring continued. The corrective action management unit (CAMU) application was filed with the NMED. The kickout area delineation and report were completed. The kickout area surface clearance work plan and depot-wide explosives safety submittal were prepared. The conditional exemption was storage established. Aerial magnetometry was performed over the test ranges and open burning/open detonation (OB/OD) grounds.

Future Plan of Action: The CAMU will be constructed. A field investigation will be conducted in Parcel 3. Work plans for FTR 2 and 3 will be prepared. Parcel 3 east and south fence construction will be completed.

BRAC-NCR

Prior Year Progress:

Future Plan of Action:

Installation Exit Strategy

FORT WINGATE DEPOT ACTIVITY

Base Realignment and Closure
Installation Restoration Program

BRAC-IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) BRAC Sites/Response Complete (RC)

BRAC Sites*: 43/26

Sites planned for RIP for FY2010

Site ID	Site Name	Month
N/A		

Sites planned for RC for FY2010

Site ID	Site Name	Month
FTWG-15	Bivouac and Tank Training Area	June

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	1996	\$25.0 K
FTWG-19	BLDG. 5	IRA	WASTE REMOVAL - SOILS	1998	\$250.0 K
FTWG-19	BLDG. 5	FRA	REMOVAL	1998	\$50.0 K
FTWG-20	MISSILE LAUNCH SITES	FRA	OTHER	1998	\$20.0 K
FTWG-29	BLDG. 503	FRA	OTHER	1998	\$2,000.0 K
FTWG-41	PCB SITES	FRA	REMOVAL	1998	\$793.0 K
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):		202009/202009
Date of BRAC-IRP completion including Long Term Management (LTM):		205009

*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 1980 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 Resource Conservation and Recovery Act (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 hazardous waste management unit (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 Trinitrotoluene (TNT) Leaching Beds and Building 503 (SWMU 1).

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 ranging up to 464 parts per billion (ppb); concentrations of nitrate have been detected at values ranging up to 166 ppm. Perchlorate concentrations were detected in an area upgradient of the TNT Leaching Beds at levels ranging up to 76 ppb.

Fort Wingate 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 has several complicating factors and uncertainties. They start with the history of the Army establishing the post in the 1870s, 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/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.

Parcel 3 is a designated improved conventional munitions area, meaning anti-personnel sub-munitions exist in the area (BLU-3, BLU-4). As of June 2006, the kickout limit of past activities at the two OB/OD grounds had not been defined. The BEC requested FY06 funding to accomplish the task; however, funds have yet to arrive.

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 elected to prepare a programmatic agreement and comprehensive agreement to address all of the cultural regulations, and will seek signatures from the Army, the Safety Health Plan Office, the Advisory Council for Historic Preservation, and both tribes. This will streamline the restoration process, after some initial delays in setting up the programmatic agreement during 2006. The Army has notified the NMED of the delays in some projects.

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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.....	201309
DES.....	201410.....	201509
CMI(C).....	201510.....	201909
LTM.....	201910.....	202909

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. 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.

A draft Parcel 21 release assessment report was completed in October 2006. A draft parcel 21 RFI work plan was completed in November 2006. The final RFI work plan and release assessment report are under review by the NMED. Comments are expected by January 2009.

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 and 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. A building demolition (16,323 square feet) will also be performed. MEC sifting of two acres and geophysical mapping of three acres are also planned. LTM will include annual monitoring of 12 wells for 10 years.

The 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.....	201412

RIP Date: N/A

RC Date: 201412

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).

The parcel covers 473 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions include preparation of a release assessment report followed by a permit closeout. No further action is anticipated following permit closeout.

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.....	201709
DES.....	201710.....	201809
CMI(C).....	201710.....	201909
LTM.....	201910.....	202409

RIP Date: N/A

RC Date: 201909

SITE DESCRIPTION

The parcel covers 226 acres. The 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.

NOTE: 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 SVOCs.

CTC assumptions include the performance of a supplemental RFI 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.....	201709
DES.....	201710.....	201809
CMI(C).....	201810.....	202009
LTM.....	202010.....	205009

RIP Date: N/A

RC Date: 202009

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 (document incinerator is FTWG-60 in AEDBR), 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 (Underground Storage Tank);
- AOC-52, Building 79 and Building 80 (Storage Vaults).

Munitions debris was found in SWMU-10 (20mm with potential for 37mm and 40mm). Additional munitions debris was found near Buildings 12 and 13. An RFI work plan and release assessment report are under review by the NMED. Comments are expected by January 2009.

Parcel 11 (172 acres) cleanup and transfer activities will include the AOC-75 of Parcel 12 (160 acres).

CLEANUP/EXIT STRATEGY

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 extensive RFI sampling and installation of four new monitoring wells. A CMS will also be performed.

Site ID: FTWG-11

Site Name: Admin Area, Sewage Treatment Plant

The corrective measures implementation (construction) [CMI(C)] 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 30 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.....	201709
DES.....	201710.....	201809
CMI(C).....	201810.....	202009
LTM.....	202010.....	205009

RIP Date: N/A

RC Date: 202009

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.

The parcel covers 12 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions include the 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 30 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.....	201006

RIP Date: N/A

RC Date: 201006

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 is awaiting a letter from the former commander of the New Mexico National Guard stating no live fire occurred.

The release assessment (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. Funding assumptions will remain 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).....	201010.....	201206

RIP Date: N/A

RC Date: 201206

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.

The parcel is divided by the west patrol road: 5B on the west and 5A on the east. Parcel 5B may transfer prior to Parcel 5A because there are currently no AOCs or SWMUs. Parcel 5 is being included with the release assessment report for Parcel 6.

The parcel covers 230 acres.

CLEANUP/EXIT STRATEGY

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

CTC assumptions include a CM consisting 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.....	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 24 includes most of AOC-18 (Igloo Block A). The remaining portion of AOC-18 is part of Parcel 9. Parcel 4 is being included with the release assessment report for Parcel 24.

The parcel covers 427 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions include a CM consisting of the excavation and off-site disposal of 625 cubic yards of soil with four 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.....	201609

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 9 includes 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.

The cause of the disturbed soils is unknown at this point in time. It may represent former building sites.

This parcel is being leased to the Missile Defense Agency.

The parcel covers 196 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions include preparation of a release assessment report. 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.

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.....	201609
DES.....	201610.....	201709
CMI(C).....	201710.....	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 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 Missile Defense Agency.

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 59 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 in the RFI phase.

CTC assumptions include the performance of a supplemental RFI and a CMS. The ICM will consist of the excavation and off-site disposal of 3,125 cubic yards of soil with 17 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.....	201709
DES.....	201710.....	201809
CMI(C).....	201810.....	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. 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 Missile Defense Agency (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 covers 2,379 acres and is being leased to the MDA.

CLEANUP/EXIT STRATEGY

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

CTC assumptions include a supplemental RFI with five new wells and groundwater sampling and performance of a CMS. 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. Twenty-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.....	201709
DES.....	201710.....	201809
CMI(C).....	201810.....	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. 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. RI results showed SVOCs and metals exceeding background. Post-excavation sampling found residual levels of SVOCs, pesticides, and metals. A draft RFI work plan is being prepared and is expected to be submitted to the NMED by May 2009.

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 performance of a supplemental RFI and a CMS. 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.

Site ID: FTWG-36

Site Name: POL Area, Fmr Admin and Utilities

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.....	201109

RIP Date: N/A

RC Date: 201109

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. Parcel 10 includes SWMU-26 (Suspected 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 into 10B on the east and 10A on the west. Parcel 10A may transfer prior to Parcel 10B. An RFI was funded for SWMU 26. Parcel 10A will be added to the release assessment report for Parcel 4 and 24.

The parcel covers 595 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.....	201409
DES.....	201410.....	201509
CMI(C).....	201510.....	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. 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) Disassembly Plant and TPL Inc. QA Test and OB/OD Area,
- 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 final RFI work plan and release assessment report are under review by the NMED. Comments are expected by March 2009 or April 2009.

The parcel covers 628 acres.

CLEANUP/EXIT STRATEGY

A soil removal is anticipated for SWMUs 12, 27, and 70. A soil removal is 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 cesspool and a building demolition (8,000 sf) will also be performed. The CM will also include work to address the TPL Inc. 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, operational record, conditional exemption storage, and annual revision of interim plan. It also includes MEC clearance in the arroyos, MEC avoidance, ecological risk assessment, GIS/environmental information management systems, and igloo/revetment sampling.

CLEANUP/EXIT STRATEGY

CTC assumptions are that the CM will include groundwater sampling at Parcel 3 (OB/OD) for six years and at Parcel 11/12 (North Area) for four years. Operational record support is required over 10 years, conditional exemption storage over 10 years, and annual revision of the interim plan over 10 years. The CM will also include:

- MEC clearance in the arroyos over 10 years,
- MEC avoidance for 10 years,
- an ecological risk assessment,
- geographic information system (GIS)/environmental information management systems support over 10 years, and
- sampling of 3,428 soil samples from igloos and revetments.

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.....	201009
CMI(C).....	201010.....	201206

RIP Date: N/A
 RC Date: 201206

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 west patrol road 4B on the west and 4A on the east. Parcel 4B may transfer prior to Parcel 4A because there are currently no AOCs or SWMUs. The drain outfalls and aprons of all igloos were sampled for lead and explosives. All revetments were sampled for lead and explosives. Sampling occurred in June 2008. A release assessment report documenting the sampling will be sent to the NMED in March 2009.

The parcels covers 429 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions include a CM consisting of the excavation and off-site disposal of 625 cubic yards of soil with four 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.....	201709
DES.....	201710.....	201809
CMI(C).....	201810.....	202009
LTM.....	202010.....	202509

RIP Date: N/A

RC Date: 202009

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 (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. An RFI work plan and release assessment report will be submitted to the NMED in February 2009.

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 release assessment report for parcel 6.

CTC assumptions include the performance of a supplemental RFI with seven new wells, groundwater/soil sampling, and 54 days of geophysical mapping. A CMS will also be performed. The CM will consist of excavation and off-site disposal of 10,625 cubic yards of soil with 56 confirmation samples and 22 disposal samples and work to address the TPL Inc. impacts, including excavation and off-site disposal of 3,750 cubic yards of soil with 39 confirmation samples and eight disposal samples.

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

Final RA(C) Completion Date: 202009

NPL Deletion Date: N/A

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of BRAC-IRP at Installation (including LTM phase): 205009

FORT WINGATE DEPOT ACTIVITY BRAC-IRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-01	TNT Beds, Deact Furn, Other Bldngs	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						
FTWG-07	Lake Knudson Area	RFA						
		CS						
		RFI/CMS						
FTWG-10	POL Area, RR Classification Yard	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						
FTWG-11	Admin Area, Sewage Treatment Plant	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						
FTWG-12	Eastern Landfill	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						
FTWG-15	Bivouac and Tank Training Area	RFA						
		CS						
		RFI/CMS						
FTWG-18	Former Structures or Buildings	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						

FORT WINGATE DEPOT ACTIVITY BRAC-IRP Schedule

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-21	Igloo Block A	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-26	Aerial Photo Feature	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-27	Igloo Blocks E,F,G, T-422, P-Range	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-28	Group C Landfill, West Rifle Range	RFA						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-30	Central Landfill	RFA						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-36	POL Area, Fmr Admin and Utilities	RFA						
		CS						
		RFI/CMS						
SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-38	Igloo Bock D, Ammo Workshop	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-42	Site-wide Tasks	RFA						
		CS						
		CMI(C)						

FORT WINGATE DEPOT ACTIVITY BRAC-IRP Schedule

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-49	Igloo Block C	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-63	W Landfill,TNT Wrkshp,Igloo Blk B	RFA						
		CS						
		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/Response Complete (RC)

BRAC Sites*: 5/2

Sites planned for RIP for FY2010

Site ID	Site Name	Month
N/A		

Sites planned for RC for FY2010

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): 202009/202009
 Date of BRAC-MMRP completion including Long Term Management (LTM): 205109

*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 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 lies 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.

Munitions known to have been stored or demilitarized at Fort Wingate 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
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.....	201409
DES.....	201510.....	201609
CMI(C).....	201610.....	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. The site was SWMU-14 (as an interim designation in the draft permit). It includes the following sites: SWMU-16, Functional Test Range (FTR) 2/3 and 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 IRA soil removal is anticipated to occur at AOC-41. 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.

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 are anticipated at SWMU-16.

CTC assumptions include the performance of a supplemental RFI and a CMS. Geophysical mapping of 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

MRSP 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.....	201309
DES.....	201410.....	201609
IRA.....	200609.....	201809
CMI(C).....	201110.....	202009
LTM.....	202010.....	205109

RIP Date: N/A

RC Date: 202009

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 open burning and open detonation 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 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.

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 will be determined using the area calculated in the kickout delineation report and deducting areas that are too steep to remove MEC. This should be determined in spring 2009.

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.

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. Portions of

Site ID: FTWG-002-R-01
Site Name: OB/OD Area

this parcel may be retained by the Army.

CTC assumptions include the performance of a CMS. The ICM will include the kickout area MEC surface clearance (2,600 acres) and 14,000 feet of boundary fencing. The CM will consist of:

- CM: Arroyo diversion excavation of 27,778 cubic yards and off-site MEC characterization of 200 acres.
- CM-DA: 10 acres of MEC clearance to depth, 24 confirmation samples, and off-site disposal of 250 cubic yards.
- CM-Sift: MEC excavation and sifting of the OB/OD area (34 acres, 219,413 cubic yards), off-site disposal of 13,713 cubic yards, MEC surface clearance/mapping (34 acres of excavated surface).
- CM-CAMU: Excavation of 11,000 cubic yards and a thermal convection system (2,500 SCFM per event, three events).
- 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 30 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.....	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. 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 Missile Defense Agency.

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.

The parcel covers 1,694 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions include the performance of a supplemental RFI with three new wells and groundwater sampling, and a CMS. geophysical mapping of 400 acres 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. 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-003-R-01	Functional Test Range 1	Parcel 20	20190930
FTWG-001-R-01	F. Test Range 2/3, Other Bldgs	Parcel 16	20170930
FTWG-002-R-01	OB/OD Area	Parcel 3	20200930

Final RA(C) Completion Date: 202009

NPL Deletion Date: N/A

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of BRAC-MMRP at Installation (including LTM phase): 205109

FORT WINGATE DEPOT ACTIVITY BRAC-MMRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-001-R-01	F. Test Range 2/3, Other Bldgs	RFA						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-002-R-01	OB/OD Area	RFA						
		RFI/CMS						
		DES						
		IRA						
		CMI(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY10	FY11	FY12	FY13	FY14	FY15+
FTWG-003-R-01	Functional Test Range 1	RFA						
		RFI/CMS						
		DES						
		CMI(C)						

FORT WINGATE DEPOT ACTIVITY

Base Realignment and Closure
Natural and Cultural Resources Program

BRAC-NCR Summary

General Project Descriptions

BRAC-NCR Schedule

Schedule

Community Involvement

Technical Review Committee (TRC): None

Restoration Advisory Board (RAB): RAB established 1994

RAB Adjournment Date: 200703

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

Community Involvement Plan (Date Published): 200609

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 technical assistance for public participation 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

