

FY2015

FORT WINGATE DEPOT ACTIVITY

**Base Realignment & Closure
Installation Action Plan**

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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 Information

Installation Program Summaries

BRAC-IRP

Total Number of Sites:	43
Number of sites at RIP:	0
Number of sites at RC:	32
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 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

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

Installation Information

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

Installation Program Cleanup Progress

BRAC-IRP

Prior Year Progress: Parcels 4B, 5A, 5B, 8, 10A, 12, 14, and 25 will be transferred in FY15. These parcels include AOCs 71, 78, 82, 87, and 93. Parcel 10B was removed from the Permit in FY15. RFI work plans for Parcels 2, 9, 11 (phase 2), and 19 were submitted to NMED. Interim soil removals were completed at Parcels 6, 21, 22, and 24. RFI reports on Parcels 7 and 13 will be submitted to NMED. The Parcel 18 (Eastern Landfill) removal report was completed.

Future Plan of Action: Interim soil removals were completed at SWMU 1. Parcels 4A, 13 and 18 are expected to be removed from the permit and transferred along with parcel 10B to DOI. RFIs on Parcels 2, 9, 11, and 19 will be near completion. Interim removals at Parcels 7, 11, 13, and 23 should be completed. The NRD case should be settled. Semi-annual groundwater monitoring will be completed.

BRAC-MMRP

Prior Year Progress: Waste was removed from 6 acres of the HWMU. Work plans for the Kick-out Area removal and RFI on Parcel 20 were submitted to NMED. Interim soil removal was completed at Parcel 16. A work plan to remove MEC/soil from Parcel 3 SWMUs 14, 15, 33, and AOC 92, and to do a soil investigation was submitted to NMED. Kick-out Area removal began in FY15. The HWMU removal at Parcel 3 will continue into FY17. A contract to remove subsurface MEC inside the inner fence in Parcel 3 will be awarded.

Future Plan of Action: Removal of MEC/Debris from the 32 acre HWMU will continue. The RFI at Parcel 20 will be near completion. Interim removal at Parcel 20 if required will be underway. The Kick-out Area removal and removal at SWMUs 14, 15, 33 and AOC 92 will be underway. Removal inside the inner fence in Parcel 3 will be underway. Parcel 16 Interim Removal will be completed and the parcel will be removed from the Permit pending resolution of the igloo interior issue.

BRAC-NCR

Prior Year Progress:

Future Plan of Action:

Installation Exit Strategy

The FWDA Exit strategy for both the IR and MR programs consists of the following points:

- 1) Focus cleanup on parcel by parcel basis rather than site by site.
- 2) Reduce time and cost characterization by using multi-incremental sampling as much as possible.
- 3) Continue to develop strong working relationships with the tribes through consultation.
- 4) Continue to use the existing Programmatic Agreement with state and tribes to streamline compliance with cultural resources laws and regulations.
- 5.) Continue to help the tribes accelerate document review times by providing funding through cooperative agreements.
- 6) Maximize the use of FY14 plus-up funding to execute removal actions.
- 7) Consolidate similar projects into larger PBA awards to take advantage of economies of scale.

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:

43/32

Sites planned for RIP for FY2016

Site ID	Site Name	Month
N/A		

Sites planned for RC for FY2016

Site ID	Site Name	Month
N/A		

Installation Site Types with Future and/or Underway Phases*

- 1 Contaminated Buildings (FTWG-63)
- 3 Landfill (FTWG-10, FTWG-28, FTWG-30)
- 4 Storage Area (FTWG-07, FTWG-21, FTWG-27, FTWG-38)
- 1 Surface Disposal Area (FTWG-26)
- 1 Surface Impoundment/Lagoon (FTWG-01)
- 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
FTWG-42	Site-wide Tasks	FRA	OTHER	2011	TBD
FTWG-49	Igloo Block C	FRA	WASTE REMOVAL - SOILS	2013	\$54.0 K
FTWG-12	Eastern Landfill	FRA	WASTE REMOVAL - SOILS	2015	TBD

Duration of BRAC-IRP

Date of BRAC-IRP Inception: 198910

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

Date of BRAC-IRP completion including Long Term Management (LTM): 204809

*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. Prior to issuance of the 2005 RCRA permit, approximately 44 solid waste management units (SWMUs) and AOCs had been identified. 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 (within the OB/OD unit, Parcel 3, FTWG-002-R-01) and a total of 93 SWMUs and AOCs. It was modified in 2011 and 2014 to include a Corrective Action Management Unit (CAMU) for treating explosive waste and to remove eight parcels and five AOCs where all corrective action had been completed. The RCRA permit describes closure requirements for the HWMU and the corrective action process for the remaining SWMUs and AOCs.

The RCRA permit describes closure requirements for the HWMU 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 RCRA permit. The RCRA permit was negotiated at the Department of Army level with the state of New Mexico. The U.S. EPA, Navajo Nation, the DOI, and the Pueblo of Zuni were also involved. These stakeholders attend bi-annual meetings, inspect ongoing projects, comment on documents and communicate often with the Army concerning the cleanup. The NMED enforces the permit and charges document review fees on all submittals. As the parcels are removed from the permit, the Army will return them to DOI which will then transfer them in trust to either the Zuni or Navajo.

The presence of significant cultural resources requires compliance with several regulations (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. Three FWDA sites (FTWG-11, FTWG-01, and FTWG-38) address parcels 11, 21, and 22 respectively, reflecting a total of 1,127 acres are the top priorities in the RCRA permit. These three sites all have groundwater contamination. Investigations are underway. In situ bioremediation or monitored natural attenuation is anticipated for a remedy. These IR sites represent roughly 40 percent of the total CTC. All other IR sites consist of relatively minor soil or building contamination with no groundwater issues.

FORT WINGATE DEPOT ACTIVITY
Installation Restoration Program
Site Descriptions

Site ID: FTWG-01

Site Name: TNT Beds, Deact Furn, Other Bldngs

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.....	201510
DES.....	201502.....	201710
CMI(C).....	201502.....	202010

RIP Date: N/A

RC Date: 202010

SITE DESCRIPTION

This site (Parcel 21) 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.

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 Final RCRA Facility Investigation (RFI) work plan and release assessment report were approved by NMED in December 2008. The RFI field work was performed in 2009. Additional geophysical characterization and well installation was performed in FY10. Brass casings were removed near the deactivation furnace. The RFI Report was submitted to the Tribes in October 2010. All buildings in Parcel 21 were demolished in 2010. The RFI report was submitted to NMED in January 2011. A second phase RFI was awarded in September 2011. The Phase 2 RFI work plan was submitted to the Tribes and NMED in August 2012 and was approved by NMED in June 2013. A contract modification was awarded in June 2014 to incorporate the difference in the contract quantities and approved work plan. IRAs for soil removal at SWMUs and AOCs exceeding cleanup levels is also on the contract. An RFI to address the groundwater contamination in parcels 11, 21, and 22 was awarded in September 2013. A contract to remove the TNT leaching beds (SWMU 1) and other soil in SWMU 1 exceeding the cleanup levels was awarded in July 2014. IRA work plans, removal action, and report will occur in 2015-2017.

The parcel covers 167 acres. The COCs are metals, perchlorate, and explosives.

Cleanup strategy for the CMI(C) will include in situ groundwater treatment. The majority of the cost and effort for Parcel 21 will occur at SWMU-1 (TNT Leaching Beds & Building 503). Soil excavation requirements were funded.

CLEANUP/EXIT STRATEGY

Cleanup strategy for the CMI(C) will include in situ groundwater treatment. The majority of the cost and effort for Parcel 21 will occur at SWMU-1 (TNT Leaching Beds & Building 503). Soil excavation requirements were funded.

Cleanup Details: Design (eight percent for groundwater), the CMI(C) will include in situ groundwater treatment (anaerobic, grid, medium concentration, 200 feet by 200 feet, 65 foot depth, 20 foot thickness 20 pounds/foot HRC, treatability study) with 100 injection wells, three applications, bench scale and treatability tests, and quarterly monitoring of 20 wells (10 new ones, 85 foot depth, guard posts, hollow stem, unconsolidated) for three years. Abandonment of the 100 injection wells (100 wells at 85 depth = 8,500 linear feet). Residual Waste Management of 468 drums of cuttings and 22,560 gallons. Professional Labor (30 percent), Site Closeout (high complexity, no long term storage).

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.....	201510
DES.....	201502.....	201610
CMI(C).....	201502.....	201710

RIP Date: N/A

RC Date: 201710

SITE DESCRIPTION

This site (Parcel 13) 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 water tower, tank and associated utilities and transformers were demolished in June 2012 under an Interim Corrective Measure (ICM). This will eliminate the overflow from the water tower into Lake Knudson. The only remaining structure at the water tower site is BLDG 52, pump house, which contains asbestos in the CMU blocks. The EPA required additional soil sampling at the tower and tank sites under their TSCA authority. Sampling revealed significant lead and chromium VI contamination requiring a modification to remove and test the additional soil. The modification was awarded in June 2014. The Army awarded a contract for the RFI in September 2011. The NMED approved the RFI work plan in July 2012. Most of the field work was done in 2013 except for Lake Knudson sampling due to flooding. The lake was sampled in August 2014. Soil at the water tower site was profiled for waste disposal and found to exceed TCLP Lead, so another mod is needed to address the soil. Expect second quarter 2015 award. The RFI will be delayed to account for the soil removal.

The parcel covers 473 acres. COCs include metals, explosives, VOCs, and PCBs.

Cleanup strategy includes soil excavation and offsite disposal (funded). Site closeout will follow.

CLEANUP/EXIT STRATEGY

Cleanup strategy includes soil excavation and offsite disposal (funded). Site closeout will follow.

Site ID: FTWG-10

Site Name: POL Area, RR Classification Yard

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.....	201510
DES.....	201502.....	201610
CMI(C).....	201502.....	201810

RIP Date: N/A

RC Date: 201810

SITE DESCRIPTION

This site (Parcel 7) 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.

A contract for the RFI work plan was awarded in Sep 2011. The Final RFI work plan was submitted to the NMED for review in January 2013 and approved in January 2014. The RFI will be completed in 2015. The parcel covers 226 acres. The primary COCs are explosives, metals, and SVOCs. NMED required sampling of the rail yard (AOC 43).

The CMI(C) will consist of soil excavation and offsite disposal (funded). The majority of the effort for Parcel 7 will occur at SWMU 25.

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. The CMI(C) will consist of soil excavation and offsite disposal (funded). The majority of the effort for Parcel 7 will occur at SWMU 25.

Site ID: FTWG-11

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.....	201510
DES.....	201502.....	201610
IRA.....	201110.....	201710
CMI(C).....	201410.....	201809
LTM.....	201809.....	204809

RIP Date: N/A

RC Date: 201809

SITE DESCRIPTION

This site (Parcel 11 & 12) has been converted to a parcel as a result of the new RCRA permit and 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 (Underground Storage Tank);
- AOC-52, Building 79 and Building 80 (Storage Vaults).

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 Oct 2009. The Army submitted to the NMED a RAR covering the debris pile removal in January 2010 at AOC 93. The RAR included Parcel 14 and AOC-75. A revised RAR was submitted to NMED in November 2010. NMED approved the RAR and NFA for Parcels 12 and 14 in December 2010, allowing removal of parcels 12 and 14 from the permit via a Class 3 Permit modification. A public meeting was held in November 2011 on the removal of Parcel 12 and 14 from the permit. NMED removed Parcels 12 and 14 from the Permit in April 2014. The property transfer package was sent to BLM in Aug 2014.

Munitions debris was found in SWMU 10 (20 millimeters with potential for 37 and 40 mm). More munitions debris was found near buildings 12 and 13. The NMED approved the RFI work plan August 28, 2009. The Final RFI report was submitted to NMED in July 2011. NMED disapproved the report and a revised final report was submitted in March 2013. NMED required corrections and the USGS corrected the report in June 2014. A second phase RFI was awarded in September 2011. The phase 2 RFI work plan was prepared in 2014. A separate contract was awarded in Sep 2014 for munitions debris at SWMU 10, Buildings 12, 13, 14, and 29. An RFI to address the groundwater contamination in parcels 11, 21, and 22 was awarded in September 2013.

Parcel 11 covers 172 acres. Parcel 12 covers 160 acres. COCs include SVOCs, VOCs, metals, explosives, perchlorate, nitrate, PCBs, and petroleum products.

Cleanup strategy includes completion of the RFI (funded). The ICM phase will include quarterly groundwater monitoring of 38 wells for two years. The CMI(C) tasks are all funded and will consist of soil excavation and offsite disposal. A gas station will be demolished to facilitate the excavation. MEC clearance of 10 acres will also be performed. LTM will include annual monitoring of 68 wells for 30 years. The majority of the effort will occur

Site ID: FTWG-11

Site Name: Admin Area, Sewage Treatment Plant

at SWMUs 6, 10, 23, 24, 37, 40, 45, and 50.

CLEANUP/EXIT STRATEGY

Cleanup strategy includes completion of the RFI (funded). The ICM phase will include quarterly groundwater monitoring of 38 wells for two years. The CMI(C) tasks are all funded and will consist of soil excavation and offsite disposal. A gas station will be demolished to facilitate the excavation. MEC clearance of 10 acres will also be performed. LTM will include annual monitoring of 68 wells for 30 years. The majority of the effort will occur at SWMUs 6, 10, 23, 24, 37, 40, 45, and 50. A site closeout will follow. LTM includes annual monitoring of 68 wells for 30 years. Abandonment of 80 wells (8,000 LF, 4-inch, over drill) is also included.

Site ID: FTWG-21
Site Name: Igloo Block A

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.....	201509
DES.....	201310.....	201510
CMI(C).....	201502.....	201710

RIP Date: N/A

RC Date: 201710

SITE DESCRIPTION

This site (Parcel 24) 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 was prepared for Parcel 24 in early 2010. Soils outside of Block A igloos and within revetments have been sampled. Additional sampling was performed in October 2010 in areas where constituents (mainly lead) exceeded cleanup levels. A Release Assessment Report was submitted to NMED in January 2014. The report is under review. There are several lead exceedances at igloo drain outfalls. An interim removal contract was awarded in June 2014 to remove soils exceeding cleanup levels at igloo drain sites and cut and plug drain pipes. Removal is expected in 2015/16.

The parcel covers 427 acres. COCs include metals and explosives.

Cleanup strategy consists of completing the Release Assessment report (funded). The CMI(C) is also funded and will include soil excavation and offsite disposal. A site closeout will follow.

CLEANUP/EXIT STRATEGY

Cleanup strategy consists of completing the Release Assessment report (funded). The CMI(C) is also funded and will include soil excavation and offsite disposal. A site closeout will follow.

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.....	201510
DES.....	201502.....	201610
CMI(C).....	201502.....	201710

RIP Date: N/A

RC Date: 201710

SITE DESCRIPTION

This site (Parcel 9) 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.

The disturbed areas in AOC 85 represent former building sites from the 1940s. This parcel is being leased to the Missile Defense Agency. The RFI contract was awarded in the July 2014. Removal is expected in 2015/16.

The parcel covers 196 acres. COCs include metals and explosives.

Cleanup strategy for the CMI(C) will consist of the soil excavation and offsite disposal (funded) followed by site closeout.

CLEANUP/EXIT STRATEGY

Cleanup strategy for the CMI(C) will consist of the soil excavation and offsite disposal (funded) followed by site closeout.

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.....	201510
DES.....	201502.....	201610
CMI(C).....	201502.....	201810

RIP Date: N/A

RC Date: 201810

SITE DESCRIPTION

This site (Parcel 19) 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. COCs include metals, SVOCs, and explosives. The RFI contract was awarded in July 2014. An interim removal was awarded as part of the RFI contract to remove soils exceeding cleanup levels at igloo drain sites and cut and plug drain pipes. Removal is expected in 2015/16.

Cleanup strategy includes the performance of a supplemental RFI (funded). The CMI(C) will consist of soil excavation and offsite disposal (funded) followed by site closeout. 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.

CLEANUP/EXIT STRATEGY

Cleanup strategy includes the performance of a supplemental RFI (funded). The CMI(C) will consist of soil excavation and offsite disposal (funded) followed by site closeout. 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.

Site ID: FTWG-28

Site Name: Group C Landfill, West Rifle Range

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.....	201610
DES.....	201502.....	201710
CMI(C).....	201502.....	201810

RIP Date: N/A

RC Date: 201810

SITE DESCRIPTION

This site (Parcel 2) has been converted to a parcel as a result of the RCRA permit, issued in December 2005. 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 but C Block was addressed under Parcel 4A in its entirety. The OB/OD (FTWG-002-R-01, Parcel 3) kick-out area extends into Parcel 2. This parcel is being leased to the MDA. The parcel covers 2,379 acres. COCs include metals and explosives. The RFI contract was awarded in July 2014.

Cleanup strategy includes a supplemental RFI (funded). The CMI(C) will consist of soil excavation and offsite disposal (funded). Site closeout will follow. The majority of costs and effort for Parcel 2 is anticipated to occur at SWMUs 17 and 22.

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.

Cleanup strategy includes a supplemental RFI (funded). The CMI(C) will consist of soil excavation and offsite disposal (funded). Site closeout will follow.

Site ID: FTWG-30
Site Name: Central Landfill

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.....	201610
DES.....	201502.....	201710
CMI(C).....	201502.....	201810

RIP Date: N/A

RC Date: 202110

SITE DESCRIPTION

This site (Parcel 23) 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 offsite landfill. The Remedial Investigation (RI) found SVOCs and metals exceeding background. Post-excavation found residual levels of SVOCs, pesticides, and metals. An RFI work plan was submitted to the NMED on April 29, 2009 and was approved in May 2010. Field work was completed in July 2011. The Final RFI report was submitted to NMED in April 2012. Soil contamination was found south of SWMU 21. NMED disapproved the RFI in August 2014. A second phase RFI will be implemented to address soil and potential groundwater contamination. The RD and CMI are now scheduled for FY16.

The parcel covers 239 acres. COCs include metals, SVOCs, and explosives.

Cleanup strategy consists of completing the RFI (funded). The CMI(C) will include soil excavation and offsite disposal. A site closeout will follow.

CLEANUP/EXIT STRATEGY

A soil removal is anticipated to be conducted at SWMU-21 and a soil removal is also anticipated at AOC-73.

Cleanup strategy consists of completing the RFI (funded). The CMI(C) will consist of the excavation and offsite disposal of 2,500 cubic yards of soil with 13 confirmation samples and five disposal samples.

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.....	201610
DES.....	201610.....	201709
CMI(C).....	201709.....	202010

RIP Date: N/A

RC Date: 202010

SITE DESCRIPTION

This site (Parcel 22) 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. 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), A; AOC-69, Buildings 301, 302, and 312 (Standard Magazines), Building 316 (Field Lunch Room); SWMU-70, Disassembly Plant and TPL QA Test Area (Disassembly Plant includes Building 517, Structure 518, Building 519, Structure 520, Structure 521, Structure 547) Disassembly Plant and TPL QA Test and OB/OD Area; AOC-71, Former rectangular structure near TMW-5 and north of Bldg. 528; AOC-88, Former buildings or structures and disposal areas southwest, south, and southeast of Bldg. 528.

This parcel was leased to TPL, Inc. with an expiration date of 31 March 2007. They have since vacated the area. The Revised Final RCRA Facility Investigation (RFI) work plan was approved, with modifications, on January 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. RFI field work was completed in November 2010. All buildings and structures were demolished in Parcel 22 in 2010 except for those in AOC69. The RFI report was submitted to the tribes in July 2011 and went to NMED in November 2011. Additional wells to monitor the alluvium and bedrock were installed in September 2011. NMED disapproved the RFI in April 2014. The report was revised and resubmitted in October 2014. A second phase RFI was awarded in September 2011 but was modified to an interim removal action at all sites exceeding cleanup levels and includes igloo drain pipe removal and plugging. This mod was awarded in June 2014. Additional wells were installed in February 2012. An RFI to address the groundwater contamination in parcels 11, 21, and 22 was awarded in September 2013. A separate contract was awarded in Sep 2014 to address the potential MEC at SWMU 12, 27, and 70, and AOC 88.

The parcel covers 628 acres. The COCs are metals, perchlorate, and explosives. Perchlorate was detected in groundwater and soil.

Cleanup strategy includes the performance of a CMS. The CMI(C) will include in situ groundwater treatment and a total of 10,125 cubic yards of soil will be excavated and disposed offsite. An in-place closure of a septic tank and cess pool will also be performed. The CMI(C) will also include work to address the TPL impacts. This includes soil excavation and offsite disposal. MEC clearance of 27 acres will also be performed.

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.

Cleanup will include the performance of a CMS. The CMI(C) will include in situ groundwater treatment with 100 wells, three applications, and quarterly monitoring of 20 wells (10 new ones, 60 foot depth, guard posts, hollow stem, unconsolidated) for three years and abandonment of 100 injection wells (100 x 60 feet = 6,000 LF, 4-inch, in place). Residual Waste Management of 330 drums of cuttings and 15,042 gallons is included. A total of 10,125 cubic yards will be excavated and disposed offsite with 53 confirmation samples and 21 disposal samples. An in-place closure of a septic tank (1,000 gallon, concrete, safety level E) and cess pool (2,872 gallons, concrete, safety level E) will also be performed. The CMI(C) will also include work to address the TPL impacts. This includes excavation and offsite disposal of 625 cubic yards of soil with four confirmation samples and two disposal samples. MEC clearance of 27 acres (two foot depth) will also be performed.

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.....	201610
DES.....	201502.....	201710
CMI(C).....	201502.....	201910

RIP Date: N/A

RC Date: 201910

SITE DESCRIPTION

This site (Parcel 6) 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, Igloos B-1028, 1029, 1038-1043 are Conditional Exemption Storage igloos to temporarily store MEC until it is destroyed at the CAMU. Igloo B-1007 has been converted to a less than 90-day hazardous waste storage unit.
- 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 31 March 2007. They have since vacated the area. Aerial magnetometry was performed at the site in January 2009. Several anomalies were found; however they were found to be non-MEC related debris.

Buildings 537, 541, 542, 516, 600 were demolished in September 2010. The RFI work plan was approved and the fieldwork was completed in mid 2011. The RFI Report was submitted to NMED in September 2012. The report is still under review in 2014. A second phase RFI was awarded in September 2011 but was modified to an interim removal action at sites exceeding cleanup levels, including drain pipe removal and plugging. This mod was awarded in June 2014.

The parcel covers 1,035 acres. COCs include metals, explosives, SVOCs, perchlorate, pesticides, herbicides, VOCs, and PCBs.

Cleanup strategy for the CMI(C) will consist of soil excavation and offsite disposal (funded). The CMI(C) will also include work to address the TPL impacts (funded). This includes additional soil excavation and offsite disposal. A site closeout will follow.

CLEANUP/EXIT STRATEGY

A soil removal is funded for SWMUs 8, 11, and 20. A soil removal is also funded 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. Cleanup strategy for the CMI(C) will consist of soil excavation and offsite disposal (funded). The CMI(C) will also include work to address the TPL impacts (funded). This includes additional soil excavation and offsite disposal. A site closeout will follow.

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-36	POL Area, Fmr Admin and Utilities	Parcel 10	20170930
FTWG-26	Aerial Photo Feature	Parcel 9	20160930
FTWG-10	POL Area, RR Classification Yard	Parcel 7	20190930
FTWG-11	Admin Area, Sewage Treatment Plant	Parcel 11	20160930
FTWG-30	Central Landfill	Parcel 23	20160930
FTWG-38	Igloo Bock D, Ammo Workshop	Parcel 22	20170930
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

Final RA(C) Completion Date: 202010

NPL Deletion Date: TBD

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of BRAC-IRP at Installation (including LTM phase): 204809

FORT WINGATE DEPOT ACTIVITY BRAC-IRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTWG-01	TNT Beds, Deact Furn, Other Bldngs	RFI/CMS						
		DES						
		CMI(C)						
FTWG-07	Lake Knudson Area	RFI/CMS						
		DES						
		CMI(C)						
FTWG-10	POL Area, RR Classification Yard	RFI/CMS						
		DES						
		CMI(C)						
FTWG-11	Admin Area, Sewage Treatment Plant	RFI/CMS						
		DES						
		IRA						
		CMI(C)						
		LTM						
FTWG-21	Igloo Block A	DES						
		CMI(C)						
FTWG-26	Aerial Photo Feature	RFI/CMS						
		DES						
		CMI(C)						
FTWG-27	Igloo Blocks E,F,G, T-422, P-Range	RFI/CMS						
		DES						
		CMI(C)						
FTWG-28	Group C Landfill, West Rifle Range	RFI/CMS						
		DES						
		CMI(C)						
FTWG-30	Central Landfill	RFI/CMS						
		DES						
		CMI(C)						
FTWG-38	Igloo Bock D, Ammo Workshop	RFI/CMS						
		DES						
		CMI(C)						

FORT WINGATE DEPOT ACTIVITY BRAC-IRP Schedule

SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTWG-63	W Landfill, TNT Wrkshp, Igloo Blk B	RFI/CMS						
		DES						
		CMI(C)						

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 FY2016

Site ID	Site Name	Month
N/A		

Sites planned for RC for FY2016

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
FTWG-002-R-01	OB/OD Area	IRA	FENCE OR OTHER SITE ACCESS CONTROL MEASURES	2011	TBD

Duration of BRAC-MMRP

Date of BRAC-MMRP Inception: 198910
 Date for Remedy-In-Place (RIP)/Response Complete (RC): 202510/202510
 Date of BRAC-MMRP completion including Long Term Management (LTM): 205509

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

BRAC-MMRP Contamination Assessment

Contamination Assessment Overview

FWDA has three MR sites: FTWG-001-R-01, 002-R-01, and 003-R-01. FTWG-002-R-01 consists of Parcel 3, the Open Burn/Open Detonation (OB/OD) area. It covers a total of 1,807 acres. This site includes a Hazardous Waste Management Unit (HWMU) which is currently undergoing MEC Clearance requiring the use of remotely operated equipment to mitigate risks associated with the Improved Conventional Munitions (ICM) in the area. A PBA was awarded in FY11 for this work and is funded. This site alone represents over half the total CTC for FWDA.

The entire OB/OD kick-out area has been determined to be 2,403 acres. Approximately 560 acres of this area lie off-post. Some 250 acres of this off-post area located on the west side of Parcel 3 was cleared to a depth of one foot in 1995 (UXB, 1995). The NMED approved the Kick-out Area Delineation Report in 2010. 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.

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

MRSPP Score: 04

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.....	201510
DES.....	201502.....	201610
CMI(C).....	201502.....	201710

RIP Date: N/A

RC Date: 201710

SITE DESCRIPTION

This site (Parcel 16) 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 5 lbs) was found on the ground surface in the area of one pre-1940's magazine. One each of 20mm practice, 20mm practice-tracer, and 37mm armor-piercing rounds were found and removed.

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.

Soil removal is anticipated to occur at AOC-41 and a former building site. No further MEC clearance is anticipated at SWMU-16. Aerial magnetometry was performed at the site in January 2009. Anomalies were detected and were investigated during the RI/FS phase. A contract for the RFI work plan and fieldwork was awarded in September 2010. The RFI work plan was submitted to NMED in April 2011 and approved in August 2012. Fieldwork was done in October/November 2012. The RFI report was submitted to NMED in August 2013 and approved in May 2014. No significant amounts of MEC items were found. A small area near the launch point was found to have a few spent rocket motors and warheads. The Corps will remove these items and munitions debris and give it to URS to process as part of their contract. The URS HWMU removal contract provides for them to process items from other parcels. An interim removal contract was awarded in June 2014 to remove soils exceeding cleanup levels at igloo drain sites and cut and plug drain pipes, and former Building Z135. Removal is expected in 2015/16.

The parcel covers 871 acres. COCs include explosives, metals, SVOCs, and perchlorate.

Cleanup strategy includes a CMS (funded), soil excavation, and MEC surface clearance of 611 acres and subsurface clearance of 61 acres (funded) followed by site closeout. The MEC clearance is addressing SWMU 16.

CLEANUP/EXIT STRATEGY

Cleanup strategy includes a CMS (funded), soil excavation, and MEC surface clearance of 611 acres and subsurface clearance of 61 acres (funded) followed by site closeout. The MEC clearance is addressing SWMU 16.

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

STATUS

Parcel: Parcel 3 (1807 acres)

Regulatory Driver: RCRA

Program: BRAC-MMRP

MRSP Score: 03

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.....	201810
DES.....	201410.....	201910
IRA.....	200609.....	202410
CMI(C).....	201410.....	202510
LTM.....	202510.....	205509

RIP Date: N/A

RC Date: 202510

SITE DESCRIPTION

This site (Parcel 3) has been converted to a parcel as a result of the RCRA permit, issued in December 2005. It was SWMU-15 (as an interim designation) in the draft permit.

Parcel 3 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/open detonation (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. Certificate of Risk Acceptances (CORAs) are signed annually by BRAC allowing work to be done in Parcel 3.

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 2,355 acres. This acreage excludes areas that are too steep to remove MEC. The Kickout area removal contract was awarded in Sep 2014. It included debris/MEC removal at the arroyo, SWMUs 14, 15, 33, and AOC 92. In addition, soil investigation was awarded in the remaining SWMUs and AOCs in the parcel.

The OB/OD operation at the site occurred under RCRA interim status; hence, this portion of the OB/OD area will be closed as an HWMU per RCRA Subtitle C. A PBA was awarded on October 25, 2010 for the HWMU removal, south and east fence construction, and CAMU construction on Parcel 3. However, the contractor encountered more volume than anticipated and only seven of the 32 acres were addressed before the contract was completed. A total of 120,000 cy were processed. Another 420,000 cy are estimated for removal from the remaining 25 acres. Significant additional funding is required in complete this effort. The south & east fence was completed in November 2011. The CAMU Permit modification was approved by NMED in July 2011 and the CAMU was completed in September 2011.

In 2006, three miles of chain-link fence were installed along the western boundary of Parcel 3 and in 2012 the south and east barb wire fence were replaced with chain-link. A geophysical prove-out area was established just north of Parcel 3. 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.

The parcel covers 1,807 acres. COCs include SVOCs, VOCs, metals, explosives, perchlorate, nitrate, cyanide, PCBs, dioxins, furans, and petroleum products.

Cleanup strategy includes RFI for MEC characterization and the ICM phase including MEC excavation and sifting (funded), groundwater monitoring, USACE oversight and technical support, annual revision of the Interim Plan, Ordnance and Explosives support, cultural support, conditional exemption storage, and a permit modification. The CM phase will include additional MEC excavation and sifting (funded), a final Remediation Report, cleanup and landscaping, and site closeout. LTM will include groundwater monitoring for 30 years. A significant portion of the CTC requirements (MEC sifting, MEC clearance, and soil excavation) was funded in FY14 and FY15.

Site ID: FTWG-002-R-01

Site Name: OB/OD Area

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. A significant portion of the CTC requirements (MEC sifting, MEC clearance, and soil excavation) was funded in FY14 and FY15.

The RFI/CMS phase will include MEC Characterization of 200 acres. The ICM phase will include MEC excavation and sifting of 25 acres (funded), annual revision of the Interim Plan, Ordnance and Explosives support, cultural support, conditional exemption storage, and a permit modification. Quarterly groundwater monitoring (cost is based on a contract) of 42 wells will occur for four years, followed by semi-annual monitoring of the same 42 wells for five years. USACE oversight for the Kick-out area MEC clearance (four years), the Inner Fence MEC clearance (five years), and general technical support (nine years) is also required.

Additional MEC excavation and sifting of 12.7 acres (funded) and a final Remediation Report will be required in the CM phase. Cleanup and landscaping of 10 acres will also be required, followed by Site closeout (high complexity in RACER, assumes no long term storage).

LTM will include annual monitoring of 42 wells for 30 years. Abandonment of 50 wells (100 feet deep, four inches diameter, over drill method in RACER) will follow. Residual Waste Management for the well abandonment is estimated with RACER and assumes non-hazardous, bulk, truck, 93 miles.

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

MRSPP Score: 03

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.....	201510
DES.....	201502.....	201610
CMI(C).....	201502.....	201910

RIP Date: N/A

RC Date: 201910

SITE DESCRIPTION

This site (Parcel 20) has been converted to a parcel as a result of the new RCRA permit. It includes the following site: SWMU-38, FTR 1. 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. This parcel is being leased by the MDA.

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. Aerial magnetometry was performed at the site in January 2009. Anomalies were detected and will be investigated during the RI/FS phase. The RFI contract was awarded in September 2014.

The parcel covers 1,694 acres. COCs include metals, SVOCs, perchlorate, and explosives.

Cleanup strategy includes an RFI (funded) and soil excavation and offsite disposal (funded). The CMI(C) will also include MEC surface clearance of 378 acres and subsurface clearance of 38 acres (also funded). A site closeout will follow.

CLEANUP/EXIT STRATEGY

Cleanup strategy includes an RFI (funded) and soil excavation and offsite disposal (funded). The CMI(C) will also include MEC surface clearance of 378 acres and subsurface clearance of 38 acres (also funded). A site closeout will follow.

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

Final RA(C) Completion Date: 202510

NPL Deletion Date: TBD

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of BRAC-MMRP at Installation (including LTM phase): 205509

FORT WINGATE DEPOT ACTIVITY BRAC-MMRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTWG-001-R-01	F. Test Range 2/3, Other Bldgs	RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTWG-002-R-01	OB/OD Area	RFI/CMS						
		DES						
		IRA						
		CMI(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY16	FY17	FY18	FY19	FY20	FY21+
FTWG-003-R-01	Functional Test Range 1	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

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. Interest surveys are done about every 18 months. To date, there has been little or no interest shown in reactivating the RAB. 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
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

Community Involvement

TAPP Title: N/A

Potential TAPP: N/A

