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**FACT SHEET**  
**AUGUST 29, 2005**

**INTENT TO ISSUE A HAZARDOUS WASTE FACILITY PERMIT**  
**UNDER THE NEW MEXICO HAZARDOUS WASTE ACT**

**FORT WINGATE DEPOT ACTIVITY**  
**MCKINLEY COUNTY, NEW MEXICO**

- Facility Name:** Fort Wingate Depot Activity (FWDA)
- EPA ID Number:** NM6213820974
- Type of Facility:** FWDA is a former ammunition depot under the command of the United States Department of the Army (Army) and is classified as a hazardous waste treatment facility under the New Mexico Hazardous Waste Act (HWA), Sections 74-4-1 through 74-4-14, NMSA 1978, as amended, and the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. 6901 through 6992. The New Mexico Environment Department (NMED) proposes to issue a Hazardous Waste Permit to the Army that requires Army to: 1) close the Open Burn/Open Detonation Unit (OB/OD Unit), and, if necessary, conduct post-closure care; 2) conduct alternative requirements to address releases to the Kickout Area from the OB/OD Unit and solid waste management units (SWMUs); 3) conduct corrective action activities for SWMUs and Areas of Concern (AOCs); and 4) conduct tasks in accordance with schedules of compliance.
- Location:** FWDA is located in western New Mexico in McKinley County and is approximately eight miles east of the city of Gallup.
- Owner/Operator:** United States Department of the Army (Army)

**INTRODUCTION**

Army is the owner and operator of FWDA and is required to obtain a permit from NMED to manage hazardous waste pursuant to the HWA and RCRA. Prior to issuing a final permit,

NMED is required to release a draft permit for public comment pursuant to 20.4.1.901.A(3) NMAC. This fact sheet is intended to facilitate public review of the Draft Permit.

This is the second draft permit issued for FWDA. On September 14, 2004 NMED issued a draft permit for public comment. Comments and requests for hearing on the first draft permit were received from several parties. Pursuant to 20.4.1.901.A(4) NMAC, a series of meetings were held in the spring of 2005, with representatives of all commenters present, in an attempt to resolve the issues raised in the comments. As a result of these meetings, NMED hereby withdraws the September 14, 2004 draft Permit and issues this revised replacement draft permit for public comment. Prior comments and requests for hearing on the September 14, 2004 draft permit are moot and a response will not be provided in the review of this revised draft Permit. If a party wishes to comment on this revised draft Permit or request a hearing, they must do so according to the procedures described below under the heading of Public Participation.

## **REGULATORY BACKGROUND**

Subtitle C of RCRA provides for “cradle to grave” environmental regulation for the management of hazardous waste at hazardous waste treatment, storage, and disposal facilities. The United States Environmental Protection Agency has authorized the State of New Mexico to implement and enforce Subtitle C requirements, including corrective action requirements, under its own hazardous waste management program. The State’s enabling authority for the program is the HWA, which authorizes the State’s Environmental Improvement Board to adopt regulations and NMED to implement and enforce the provisions of the HWA and regulations.

As part of the State’s program, the EIB has adopted regulations relating to, among other things, the issuance of hazardous waste permits. These regulations incorporate by reference pertinent sections of the federal code of regulations – 40 CFR parts 260 through 270, and 273 – and are codified in the Hazardous Waste Management Regulations (HWMR), 20.4.1 NMAC.

The HWA and HWMR require each person owning or operating an existing facility or planning to construct a new facility for the treatment, storage, or disposal of hazardous waste to have a permit. *See* 42 U.S.C. 6925 and 20.4.1.900 NMAC (incorporating 40 CFR 270.1). A treatment, storage or disposal facility in existence on November 19, 1980 is eligible for “interim status.” Interim status authorizes an existing facility to operate, subject to the interim status standards set forth in 20.4.1.600 NMAC, incorporating 40 CFR part 265, until NMED issues or denies a RCRA permit or until interim status is otherwise terminated.

The HWA and HWMR further require corrective action for all releases of hazardous waste or constituents from any SWMU at a facility seeking a permit, regardless of the time at which waste was placed in such unit. 42 U.S.C. 6924(u), Section 74-4-4.2(B), NMSA 1978, and 20.4.1.500 NMAC (incorporating 40 CFR 264.101(a)). Corrective action is also required beyond the facility boundary. 42 U.S.C. 6924(v) and 20.4.1.500 NMAC (incorporating 40 CFR 264.101(c)).

## **PROCEDURAL BACKGROUND FOR THE FWDA PERMIT APPLICATION**

**General Permit Application Requirements:** Owners or operators of hazardous waste management facilities, including interim status facilities, are required to submit a comprehensive permit application covering all aspects of design, operation, maintenance, and closure of their facilities. The permit application consists of Parts A and B. Part A of the Permit Application (Part A Application) is a short, standard form that summarizes general information about a facility including the name of the owner/operator, a list of the types of wastes managed, a facility layout diagram, and the activities requiring a permit. Part B of the Permit Application (Part B Application) is an extensive document submitted in a narrative, tabular, and schematic format that describes the facility operations in detail and includes information necessary to establish corrective action requirements for releases from SWMUs and AOCs. Because the OB/OD Unit is a closing unit, which will not be permitted to operate, the Part B Application for FWDA required only the information necessary to close the OB/OD Unit including: a general description of the facility; information on the design and operation of the unit; a closure plan; and information related to corrective action for SWMUs and AOCs.

**Part A Permit Application:** On November 12, 1980, Army timely submitted to NMED its Part A Permit Application for FWDA. The Part A Permit Application listed two hazardous waste treatment units: the Open Burning/Open Detonation Unit and the Deactivation Furnace. Army has submitted several, amended Part A Permit Applications since the initial submission to update and further describe the extent of treatment activities conducted at the OB/OD Unit under interim status. In one of its amended Part A Permit Application submitted on January 18, 1985, Army removed the Deactivation Furnace as a hazardous waste treatment unit because the Army never operated the unit under interim status. NMED approved the revision deleting the Deactivation Furnace on March 19, 1985. Accordingly, the OB/OD Unit is the only existing hazardous waste management unit at FWDA that received interim status authority to operate under the Part A Permit Application, 20.4.1.600 NMAC (incorporating 40 CFR part 265), 42 U.S.C. 6925, and Section 74-4-9, NMSA 1978,.

**Part B Permit Application:** In November 1988, Army timely submitted its Part B Permit Application for operation of the OB/OD Unit as a miscellaneous treatment unit under 40 CFR part 264, subpart X. On November 10, 1992, Army submitted an interim status closure plan for the OB/OD Unit and notified NMED of its intent to withdraw the Part B Permit Application for operation of the OB/OD Unit. Army, however, did not complete closure of the OB/OD Unit under interim status.

On January 25, 1999, NMED required Army to submit a post closure permit application for the OB/OD Unit to, among other things, complete closure. On June 30, 1999, Army submitted its Post-Closure Permit Application. Army revised its permit application several times in response to NMED-issued Notices of Deficiency. On June 12, 2003, Army submitted the latest revised permit application. NMED reviewed Army's revised permit application and determined that it was sufficiently complete to prepare this draft Permit.

## **TYPE AND QUANTITY OF WASTES**

**Type of Wastes:** Army will be permitted to conduct closure activities for the OB/OD Unit. No treatment, storage, or disposal of hazardous waste will be allowed under the permit. The following hazardous wastes are associated with prior interim status, treatment activities at the OB/OD Unit.

**D Waste Codes** (Hazardous wastes exhibiting the characteristics of ignitability, reactivity, corrosivity, or toxicity): D001 (ignitable), D003 (reactive), D005 (barium), D006 (cadmium), D007 (chromium), D008 (lead), D009 (mercury), and D030 (2,4-dinitrotoluene).

**F Waste Codes** (Hazardous wastes from non-specific sources): F003 and F005 (explosive contaminated solvents and rags).

**K Waste Codes** (Hazardous wastes from specific sources): K044 (wastewater treatment sludges from the manufacturing and processing of explosives).

The “D,” “F,” and “K” Codes are EPA Hazardous Waste Numbers that are assigned to specific hazardous wastes. These codes are specified at 20.4.1.200 NMAC (incorporating 40 CFR part 261 subparts C and D).

**Quantity of Wastes:** The Army treated various quantities of waste military munitions at the OB/OD Unit from November 19, 1980 until 1993 when active use of the OB/OD Unit ceased. Army conducted detonations of explosives of up to 5,000 pounds above ground and detonation of explosives between 5,000 and 10,000 pounds with ten feet of earthen cover. Army has estimated the volume of waste and waste residues remaining at the OB/OD Unit at 72,740 cubic yards.

## **TYPE OF UNIT TO BE PERMITTED**

**Miscellaneous Treatment Unit.** The OB/OD Unit is a treatment unit. There are no unit-specific performance standards under 20.4.1.500 NMAC (incorporating 40 CFR part 264) for open burning and open detonation units. A treatment unit for which there are no unit-specific performance standards is defined as a “miscellaneous unit” and must comply with the general performance standards under 20.4.1.500 NMAC (incorporating 40 CFR part 264, subpart X). Accordingly, the OB/OD Unit is a miscellaneous treatment unit. The OB/OD Unit includes: the Burning Ground Area; at least twelve open detonation craters known as the current detonation craters 1 through 12 (CDC-1 through CDC-12); and at least ten residue piles designated as current residue piles 1 through 10 (CRP-1 through CRP-10).

## DESCRIPTION OF THE PERMIT

The draft permit is organized into eight permit sections and thirteen attachments. The draft permit generally follows the format, style, and general conditions in EPA permitting guidance including, but not limited to: *Model RCRA Permit For Hazardous Waste Management Facilities* (Draft), U.S. EPA (September, 1988); *Model Permit For Hazardous and Solid Waste Amendments* (Draft), U.S. EPA (July, 1995); and *RCRA Guidance Manual for Subpart G Closure and Post Closure Care Standards and Subpart H Cost Estimating Requirements*, OSWER 9476.00-5 (January, 1987). Because of the unique conditions at FWDA, NMED proposes to impose, in addition to general permit conditions, several permit conditions that are necessary to protect human health and the environment pursuant to NMED's "omnibus authority" (see 20.4.1.900 NMAC (incorporating 40 CFR 270.32(b)(2))). In addition, the draft permit imposes alternative requirements to address releases to the Kickout Area from the OB/OD Unit and SWMUs.

Each Permit Section is briefly described below and permit conditions of interest to the public are noted. The general regulatory authority for conditions in each Section is noted, but more specific citations are provided throughout the draft permit at the end of each condition.

**Permit Section I (General Permit Conditions)** contains permit conditions that apply to all hazardous waste management permits, most of which are based upon mandatory permit conditions set forth at 20.4.1.900 NMAC (incorporating 40 CFR part 270). Section I also references several permit attachments that provide more information regarding FWDA, namely Permit Attachment 1 (General Facility Description), Permit Attachment 2 (Facility Map), and Permit Attachment 12 (Map of OB/OD Unit). Notable permit conditions in Section I include:

**Permit Section I.F.4 (Transfer of Land Ownership)** requires Army to notify NMED before transfer of land that is part of the Facility and provide information related to corrective action requirements on that land. This condition will ensure that Army's corrective action obligations on any land proposed for transfer will be met either before transfer or through adequate mechanisms in place to allow corrective action beyond the facility boundary after transfer, pursuant to 42 U.S.C. 6924(v) and 20.4.1.500 NMAC (incorporating 40 CFR 264.101(c)).

**Permit Section I.L (Community Relations Plan)** requires the Army to provide information to the public on hazards related to waste military munitions at the Facility. The two main elements of the Community Relations Plan are the Public Safety Program and the Military Munitions Map and Table. Army is required to create and implement a Public Safety Program to educate the public regarding waste military munitions at FWDA and releases beyond the facility boundary. Army is required to create and maintain a Military Munitions Map and Table to depict and identify waste military munitions released at FWDA and beyond the facility boundary. The Army is also required to consult with the Pueblo of Zuni and the Navajo Nation when developing the Community Relations Plan. The Community Relations Plan is necessary to protect human health and the environment by limiting or preventing human exposure to waste

military munitions that could cause serious injury or death. In addition, the Community Relations Plan will address participation by the Pueblo of Zuni, the Navajo Nation and any other interested parties regarding the corrective action process.

**Permit Section II (General Facility Conditions)** contains mandatory permit conditions for operation of hazardous waste management facilities set forth at 20.4.1.500 (incorporating 40 CFR part 264, subpart B through E). A notable permit condition in Section II is:

**Permit Section II.C (Security)** requires the Army to install a security fence around the OB/OD Unit and Kickout Area and post warning signs on the security fence in each language common in the region around the Facility and in pictograms. The security fence will prevent the unknowing entry, and minimize the possibility of unauthorized entry, of persons or livestock into areas known to contain released waste military munitions. The warning signs will ensure that persons approaching the fence are aware of the dangers at the Facility. This condition is necessary to protect human health and the environment.

**Permit Section III (Closure Requirements)** contains permit conditions for closure of the OB/OD Unit and associated releases to the Kickout Area. These conditions are based upon the requirements in 20.4.1.500 NMAC, incorporating 40 CFR part 264, subpart G and subpart X.

Army did not provide a closure plan for the OB/OD Unit that met all requirements of 20.4.1.500 NMAC (incorporating 40 CFR part 264, subparts G and X). Specifically, Army's closure plan did not propose that all hazardous waste and hazardous waste residues be removed from the OB/OD Unit during closure. Instead, Army proposed to remove only a portion of the known hazardous wastes and contain the remaining hazardous wastes by the installation of an engineered cover. Additionally, Army's closure plan did not specify in appropriate detail the proposed methods and procedures to close the OB/OD Unit.

Because Army's closure plan is deficient, NMED has specified the necessary steps required to close the OB/OD Unit in the draft permit. Notable permit conditions include the following:

**Permit Section III.A.2 (Removal of Wastes and Waste Residues From the OB/OD Unit)** requires Army to remove hazardous wastes and hazardous waste residues from the OB/OD Unit. Closure of the OB/OD Unit must include removal of all hazardous waste and hazardous waste residues. *See* 20.4.1.500 NMAC (incorporating 40 CFR part 264, subpart G). Failure to remove all hazardous waste (*e.g.*, waste military munitions) and residues from the OB/OD Unit during closure would constitute abandonment and illegal disposal of hazardous waste without a permit under 42 U.S.C. 6925(a) and 20.4.1.900 NMAC (incorporating 40 CFR 270.1(b)) and would violate the closure requirements for treatment units in 20.4.1.500 NMAC (incorporating 40 CFR 264.113(a)) and prohibitions against land disposal of hazardous waste in 20.4.1.500 NMAC (incorporating 40 CFR 268.9(c) and 268.40).

**Permit Sections III.A.3 – III.A.6 and III.B** require Army to remove or decontaminate contaminated soils from the OB/OD Unit. Following initial removal or decontamination activities, the Army must collect soil characterization and confirmation samples from the limits of remedial excavations and conduct a geophysical investigation of the entire OB/OD Unit to ensure the removal or decontamination of contaminated soils where practicable. If contaminated soils remain, Army is required to submit an investigation work plan to determine the nature and extent of remaining contamination. A final remedy for remaining contaminated soils will be selected through a permit modification.

Under the Schedule of Compliance in Permit Section VIII, Army is required to submit a closure plan for the OB/OD Unit that complies with the conditions in the permit. After submission and approval, the new closure plan will be incorporated into the permit as Permit Attachment 9. Army is also required to submit a summary of historical information pertaining to the OB/OD Unit and a proposed permit modification to include a Corrective Action Management Unit for management of waste generated during closure activities.

**Permit Section IV (Alternative Requirements For The Kickout Area)** contains permit conditions authorized under 20.4.1.500 NMAC (incorporating 40 CFR 264.101 and 264.110(c)). The Kickout Area is the combined area of land to which the OB/OD Unit and several SWMUs released waste military munitions or solid waste as a result of detonations of military munitions. The Department believes it is not necessary to apply the closure requirements to this release because the alternative requirements in the permit will protect human health and the environment and will satisfy the closure performance standards. Notable conditions in this permit part include the following:

**Permit Section IV.A (Confirmation of Kickout Area)** requires Army to confirm the extent of the Kickout Area by conducting a geophysical investigation. This condition will ensure that the security fence encompasses the entire Kickout Area and that the locations of waste military munitions in the Kickout Area are known for the purposes of off-site corrective action, the Community Relations Plan, and the Military Munitions Map and Table.

**Permit Section IV.B (Surface Clearance In The Kickout Area)** requires Army to conduct a surface clearance of the Kickout Area to remove waste military munitions from the Kickout Area. When developing the work plan to conduct the surface clearance, the Army is required to consult with the Pueblo of Zuni and the Navajo Nation.

**Permit Section IV.C (Clearance of Designated Areas)** requires the Army to conduct geophysical investigations of designated areas, requires excavation of all of the detected anomalies and removal of all waste military munitions in these designated areas. The purpose of this condition is to allow for access to archaeological and other cultural resources in the Kickout Area. The list of designated areas will be developed by consultation between the Navajo Nation and the Pueblo of Zuni.

**Permit Section IV.E (Annual Inspections and Removal)** requires Army to conduct annual inspections of the Kickout Area and to remove all observed waste military munitions. Permit Section IV.B requires excavation of all of the detected anomalies and removal of all waste military munitions. However, as a practical matter, current technology cannot guarantee 100% detection of all waste military munitions released in the Kickout Area. In addition, there may be areas in the Kickout Area that will be inaccessible during the surface clearance activities; therefore, some waste military munitions will likely remain in the Kickout Area after completion of the surface clearance. These waste military munitions may pose a continuing threat to human health and the environment. Accordingly, the Army is required to conduct annual inspections to discover and remove waste military munitions that may be exposed due to erosion or lifted to the surface through freeze and thaw cycles.

**Permit Section IV.F (Transfer Of Lands Within The Kickout Area)** requires the Army to conduct additional clearance of any lands within the Kickout Area that will be transferred to another owner. This condition requires the Army to conduct geophysical investigations of lands, requires excavation of all of the detected anomalies and removal of all waste military munitions in these lands.

**Permit Section V (Facility-Wide Ground Water Monitoring)** contains permit conditions designed to integrate ground water monitoring on a facility-wide basis. These permit conditions are authorized by 20.4.1.500 NMAC (incorporating 40 CFR 264.101). After submission and approval, the facility-wide ground water monitoring program will be incorporated into the permit as Permit Attachment 10.

**Permit Section VI (Ground Water Investigation and Ground Water Corrective Action For the OB/OD Unit)** contains permit conditions authorized under 20.4.1.500 NMAC (incorporating 40 CFR part 264, subpart F). Exceedences of health-based standards for ground water have been detected at the OB/OD Unit for RDX, perchlorate, 2,4-dinitrotoluene, 4-amino-2,6-dinitrotoluene, 2-amino-4,6-dinitrotoluene, cadmium, chromium, selenium, and lead. *See Final Open Burning/Open Detonation Area, RCRA Interim Status Closure Plan, Phase 1B* (December 29, 1999). Therefore, the Army is required to implement a Ground Water Corrective Action Program pursuant to 20.4.1.500 NMAC (incorporating 40 CFR 264.100). However, before the Army can design and implement a corrective action program, Army must gather additional information required under Permit Section VI.A (Ground Water Investigation). After completion of the investigation, Army must initiate a permit modification to establish the corrective action program. Upon approval of the permit modification, the corrective action program for the OB/OD Unit will be incorporated into the permit as Permit Attachment 11.

**Permit Section VII (Corrective Action For SWMUs and AOCs)** contains permit conditions necessary to meet the corrective action requirements of 42 U.S.C. 6924(u) and 20.4.1.500 NMAC (incorporating 40 CFR 264.101). These conditions follow standard EPA guidance for conducting corrective action at RCRA facilities.

Under Section VII, Army must first determine the full nature and extent of contamination at each SWMU and AOC identified in the draft permit and then, if necessary, conduct a remedy analysis for each SWMU and AOC. A final corrective measure for each SWMU or AOC will be incorporated into the permit through a permit modification. Investigations, remedy analyses, and remedy implementation must comport with the Scope of Work documents in Permit Attachment 4 (RCRA Facility Investigation Scope of Work), Permit Attachment 5 (Corrective Measures Study Scope of Work), Permit Attachment 6 (Corrective Measures Implementation Scope of Work), and Permit Attachment 7 (Cleanup Levels). A list of all SWMUs and AOCs at FWDA is specified in Permit Attachment 8 (Hazardous Waste Management Unit, Solid Waste Management Unit, and Area Of Concern Tables). The factual basis for the listing of each SWMU and AOC is attached to this Fact Sheet as Attachment 1.

NMED proposes that Army conduct investigations of SWMUs and AOCs in phases depending on the land parcels on which the SWMUs or AOCs are located. *See* Permit Section VII, Table 7.2. NMED invites public comment regarding the appropriate priority ranking and scheduling for investigation of SWMUs and AOCs located at FWDA.

Army is also required to immediately conduct two interim measures at the facility. These interim measures must comport with Permit Attachment 3 (Interim Measures Scope of Work) and are necessary to limit or prevent human and environmental exposure to hazardous waste or hazardous constituents while final corrective measures are evaluated:

**Permit Section VII.G.2.a (Sampling of Off-site Water Supply Wells)** requires Army to sample off-site water supply wells identified in Permit Attachment 13. This condition is necessary to ensure that the public is not using contaminated ground water released from the Facility and to minimize or prevent human exposure to, and the further migration of, hazardous waste or constituents while final corrective measures are evaluated.

**Permit Section VII.G.2.b (Cleanup of Kickout Beyond the Facility Boundary)** requires Army to conduct a geophysical investigation to discover and remove any waste military munitions that were “kicked out” and released beyond the facility boundary. These actions will be required when the Army is notified that the use of the off-facility property will change. This condition is necessary to prevent human and environmental exposure to waste military munitions beyond the Facility boundary.

**Permit Section VIII (Schedule of Compliance)** contains permit conditions requiring the Army to provide certain items either missing from or deficient in the Application, including historical information relating to the OB/OD Unit, SWMUs, and AOCs, closure submittals, a facility topographic map, and hydrogeologic information. These conditions are authorized by 20.4.1.500 NMAC (incorporating 40 CFR 264.101) and 20.4.1.900 NMAC (incorporating 40 CFR 270.33). This schedule of compliance also specifies the prior consultation requirements, which require the Army to take best efforts to consult with the Navajo Nation and the Pueblo of Zuni regarding planned activities at the Facility.

**Permit Condition VIII.A.1.e (Asbestos Evaluation)** requires Army to prepare asbestos evaluation reports in conjunction with associated parcel RCRA Facility Investigation work plans. This condition is necessary to minimize or prevent human exposure to asbestos-contaminated soils at the Facility. This condition is authorized by 20.4.1.900 NMAC [incorporating 40 CFR 270.32(b)(2)] (“omnibus authority”). See **Description of Permit** above. Under certain circumstances, asbestos qualifies as a statutory hazardous waste as defined in NMSA 1978, § 74-4-3 (I) (HWA); see also RCRA at 42 U.S.C. § 6903 (5). Asbestos is a designated hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability act (CERCLA), U.S.C. § 9602. The Army has stated that it will address asbestos contamination in this condition pursuant to CERCLA, 42 U.S.C. § 9601, *et. seq.* This condition is a requirement within the meaning of, and enforceable pursuant to CERCLA § 310(a)(1), 42 U.S.C. § 9659(a).

## **PUBLIC PARTICIPATION**

**Availability of Additional Information:** A copy of the draft permit, public notice, and the fact sheet may be reviewed at the following locations during the public comment period:

NMED - Hazardous Waste Bureau  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, New Mexico 87505-6303  
Phone: (505) 428-2500  
*Monday – Friday: 8:00 a.m. to 5:00 p.m.*

Octavia Fellin Public Library  
115 West Hill Ave  
Gallup, New Mexico 87301  
(505) 863-1291  
*Monday-Thursday: 9:00 a.m. to 8:00 p.m.*  
*Friday: 10:00 a.m. to 6:00 p.m.*  
*Saturday: 9:00 a.m. to 6:00 p.m.*

A copy of the draft Permit, Fact Sheet, and Public Notice are also available on the NMED website at [www.nmenv.state.nm.us/HWB/fwdaperm.html](http://www.nmenv.state.nm.us/HWB/fwdaperm.html) under Draft Permit. The Administrative Record may also be reviewed at the NMED – Hazardous Waste Bureau at the address given above. To obtain a copy of the Administrative Record or a portion thereof, please contact Pam Allen at (505) 428-2531, or at the NMED address given above. NMED will provide copies, or portions thereof, of the Administrative Record at a charge of \$0.25 per page.

A public informational meeting will be held in Gallup at the Holiday Inn located at 2915 West Hwy 66, Gallup, New Mexico on **September 12, 2005 from 2:00 P.M. to 9:00 P.M.** to discuss the proposed hazardous waste permit.

**Comment Period and NMED Contact:** Any person who wishes to comment on the draft Permit or request a public hearing should submit written or electronic mail (e-mail) comment(s) with the commenter’s name and address to the address below. The comment period begins on **August 29, 2005** and ends on **October 28, 2005**. Only comments and/or requests received on or before **5:00 p.m. October 28, 2005** will be considered.

John E. Kieling, Program Manager  
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2905 Rodeo Park Drive East, Building 1  
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e-mail: john.kieling@state.nm.us  
Ref: Fort Wingate Depot Activity - Draft Permit

Written comments must be based on available information for review and include, to the extent practicable, all referenced factual materials. Documents in the administrative record need not be re-submitted if expressly referenced by the commenter. Requests for a public hearing must provide: (1) a clear and concise factual statement of the nature and scope of the interest of the person requesting the hearing; (2) the name and address of all persons whom the requestor represents; (3) a statement of any objections to the draft permit, including specific references to any Permit conditions being addressed; and (4) a statement of the issues which the commenter proposes to raise for consideration at the hearing. NMED will provide a thirty (30) day notice of a public hearing, if scheduled.

**Final Decision:** NMED must ensure that the approved draft permit is consistent with RCRA, the HWA, and HWMR. All written comments submitted on the draft permit will become part of the administrative record, be considered in formulating a final decision, and may cause the draft permit to be modified. NMED will respond in writing to all public comments. NMED's response to comments will specify which provisions, if any, of the draft permit have been changed in the final Permit decision, the reasons for the change, and will briefly describe and respond to all public comments on the draft permit or the permit application raised during the public comment period. NMED's response to comments will also be posted on the NMED website in addition to being sent to all persons who submitted written comments.

After consideration of all the written public comments received, NMED will either issue or modify and issue the Permit. If NMED modifies and issues the Permit, then the Permittee shall be provided by certified mail a copy of the modified permit and a detailed written statement of reasons for the modifications. The Secretary of the New Mexico Environment Department will make the final Permit decision publicly available.

The Secretary's final permit decision shall constitute a final agency decision and become effective thirty days after notice of the decision has been served on the Applicant, or such later time as the Secretary may specify. All persons on the facility mailing list, persons that presented written comments, or who requested notification in writing, will be notified of the Secretary's final decision by mail. The final agency decision may be appealed as provided by the Hazardous Waste Act, Section 74-4-14, NMSA 1978.

**Arrangements for Persons with Disabilities:** Any person with a disability requiring assistance or auxiliary aid to participate in this process should contact Judy Bentley at the following address: New Mexico Environment Department, Room N-4030, P.O. Box 26110, 1190 St.

Francis Drive, Santa Fe, New Mexico 87502-6110, (505) 827-2844. TDD or TDY users please access Judy Bentley's number via the New Mexico Relay Network. Albuquerque users may access Ms. Bentley's number at (505) 275-7333.

ATTACHMENT 1					
BASIS FOR LISTING SWMUS/AOCS AT FWDA SUBJECT TO RCRA CORRECTIVE ACTION					
SWMU/ AOC.	Parcel	Description	Comment	Reason For Change or Deletion From September 4, 2004 Draft Permit (shown as strike through)	References
SWMU 1	21	TNT Leaching Beds & Building 503	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>No change.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
SWMU 2	21	Building 515 (Painting and Acid Washout Building and Acid Holding Pond)	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>No change.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
SWMU 3	11	Fenced Storage Yard (Former Storage Yard or DRMO Area, Extended Storage Yard, Former Coal Storage Area)	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>No change.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
SWMU 4	6	Building 600 (Building 539, Ammunition Work Shop Area Change House and Laundry)	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>No change.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
SWMU 5	11	Building 5 <del>(Garage and Heating Plant No. 2.)</del>	Bldg. 5 includes an indoor sump that leads to a storm drain (RFA SWMU #5). According to 1961	<u>No change.</u>	(1) May 1961 Facilities Data, p. 68. (2) March 1990 Enhanced Preliminary

ATTACHMENT 1					
BASIS FOR LISTING SWMUS/AOCS AT FWDA SUBJECT TO RCRA CORRECTIVE ACTION					
SWMU/ AOC.	Parcel	Description	Comment	Reason For Change or Deletion From September 4, 2004 Draft Permit (shown as strike through)	References
			<p>Facilities Data, Bldg. 5 contains one hydraulic lift grease rack, one truck lift, two battery charging racks, parts department, washing and steam and cleaning rack and a floor drain.</p> <p>Garage automotive, truck repair, and maintenance operations generally include solvents use during cleaning and degreasing of automotive parts and generation of petroleum and metals waste.</p> <p>According to the 1997 RI/FS, pesticide contaminated soil was proposed to be removed and a previous 1991 sediment sample collected from the indoor sump contained lead above the EP toxicity levels (9.6 mg/l).</p>		<p>Assessment, p. 40, 42, 44, 63, 66, 69.                      (3) Sept. 26, 1990, RCRA Facility Assessment Report, p. 27-28, 55, 57, 59.                      (4) July 1995, Archive Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p.4-34 to 4-35).                      (5) November 1997, RI/FS, p. 7-14 through 19, 10-3 through 10-57-.</p>

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SWMU 6	11	Building 11 (Former Locomotive Shop)	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>No change.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
SWMU 7	21	Fire Training Ground	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>No change.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
<del>SWMU 8</del>	<del>23</del>	<del>Current Landfill</del>	According to the 1997 RI/FS, the Current Landfill was established in 1969. Listed in the September 1990 RFA and in the March 1990 Enhance Preliminary Assessment p.53. This landfill is depicted at this location on the Sept. 1986 General Site Map (Sheet 5 of 32).	<u>Duplicate of the Central Landfill (formerly designated as SWMU 23 now designated as SWMU 21)</u>	(1) September 1986, General Site Map, Master Plan, Basic Information Maps, Sheet 5 of 32 (Drawing No. 18-02-04). (2) March 1990 Enhanced Preliminary Assessment, p. 52, 53, 62, 64, 66, 69. (3) July 1995, Archive Search Report, p. 4-75, 1948 aerial photos (API-1 and API-2) in separate binder. (4) November 1997, RI/FS, p. 7-103 to 108.

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					(5) December 2, 2002 submittal from BLM, packet of CDs in black zippered case, 1952 aerial photo (1952_6-193), 1958 aerial photo (1958_1-121), 1966 aerial photo (1966_2-187), and 1974 aerial photo (1974_374-35). September 26, 1990 RFA, page 31
<del>SWMU 9</del> <del>SWMU 8</del>	6	Building 537 (Pesticide and Field Battery Shop)	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>No change.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
SWMU <del>109</del>	7	POL Waste Discharge Area	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>No change.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
SWMU <del>110</del>	11	Sewage Treatment Plant (includes Buildings/ Structures 22, T-37, 63, 69, 70, 71, 72, 73, 74a, 74b, 74c, 74d, 82, 83,	No Army Comment except regarding PCB transformers. Based on RI/FS limited soil sampling, metals were	<u>Former SWMU 12 (document incinerator), SWMU 13A (septic system at sewage treatment plant) was</u>	(1) May 1961 Facilities Data, p. 23-27, 147- 157. (2) March 1990, Enhanced Preliminary

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		<del>two former PCB transformers</del> <u>document incinerator, Structure 745, drainage ditch, septic system at sewage treatment plant)</u>	detected at concentrations above background, one VOC was detected. Surface soil samples were not collected at the sludge beds or lagoons. Elevated metals, chloride, and sulfate were detected in groundwater.	<del>combined with this SWMU and SWMU 13B (Structure 745) was combined with SWMU 11A. PCB transformers are included with AOC 75 (formerly AOC 133).</del>	Assessment, p. 46, 47, 48, 51, 62, 66, 69. (3) July 1995, Archive Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p. 4-38 through 4-39). (4) November 1997, RI/FS, p. 7-42 to 7-49.
<del>SWMU 12</del>	11	Classified Document Incinerator (Structure 21) (includes OE burn pit and disposal)	According to the December 1994, Unexploded Ordnance (UXO) Survey Report, UXO was found at the site during an UXO clearance conducted in May 1993 when a total of 7,930 "live" projectiles were recovered, including 20mm target practice-tracer rounds (7,928) and 40 mm projectiles (2).	<del>Combined with SWMU 10.</del>	(1) May 1961, Facilities Data, p. 158. (2) December 1994, Unexploded Ordnance (UXO) Survey Report, prepared by Environmental Resources Management, Inc., p. 3-7, Table D-1, Appendix B, and Appendix F. (3) July 1995, Archive

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					Search Report (p. 7-2, 7-10), Appendix E-2 (Site Visit No. 1, April 24 and 25, 1995). (4) November 1997, RI/FS, p. 7-43. (5) December 1998, Final Removal Report, OE Sampling and Removal Action, prepared by CMS Environmental, Inc.
<del>SWMU 13A</del>	11 or 12	Septic System at Sewage Treatment Plant	This septic system at the Sewage Treatment Plant consists of at least one septic tank, piping, and has one or two outfalls that discharge to the South Fork of the Rio Puerco. This septic system is partially depicted on a 1954 engineering drawing (see Jan. 15, 2001 submittal). FWDA indicates that the contractor searched for it on Feb. 23, 2000 and found it north of the Sewage Treatment Plant and north of the North Patrol Road	<u>Combined with SWMU 10.</u>	(1) 1954, Copies of portions of historical FWDA engineering drawings showing cesspool and septic tank locations (see January 15, 2001, letter transmitting maps). (2) May 1961, Facilities Data, p. 153. (3) March 1990, Enhanced Preliminary Assessment, p. 46, 62, 63, 66, 70. (4) July 2002, Permit Application, Appendix G, Table 3, p. 4.

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			(see January 15, 2001 submittal). In their 2002 Permit Application, FWDA asserts that this SWMU has been misidentified and has been confused with the Imhoff Tank at the Sewage Treatment Plant. FWDA provided two references for this SWMU in their July 2002 Permit Application: 1961 Facilities Data and December 1982 Installation Environmental Assessment. However, the March 1990 Enhanced PA provides what appears to be a different reference for this SWMU: June 1982, Installation Environmental Assessment, Fort Wingate Depot Activity, Gallup, New Mexico, Inland Pacific Engineering Company. The FWDA sewer system is described in the 1961 Facilities Data (p. 23-27).		

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SWMU <del>13B</del> 11A	UK	<u>Structure</u> 745 and 746	March 1990 Enhanced PA p. 46, paragraph 3, lists Buildings 745 and 746. According to the March 1990 Enhanced PA, Building 745 had an active septic system and drain field system in an isolated area, which had a capacity of 3,000 gallons (p. 46). The March 1990 Enhanced PA provides the following reference for this information: June 1982, Installation Environmental Assessment, Fort Wingate Depot Activity, Gallup, New Mexico, Inland Pacific Engineering Company.	<u>Former SWMUs 13B and 13C were combined</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
<del>SWMU 13C</del>	<del>UK</del>	<del>Building-Structure</del> 746	Building 746 includes a septic system. According to the March 1990 Enhanced PA, Building 746 had an active septic system and drain field system in an isolated area, which had a capacity of 2,000 gallons	<u>Combined with SWMU 11A.</u>	<del>(1)</del> March 1990, Enhanced Preliminary Assessment, p. 46, 62, 63, 66, 70. <del>(2)</del> March 1990, Enhanced Preliminary Assessment

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			(p. 46). The March 1990 Enhanced PA provides the following reference for this information: June 1982, Installation Environmental Assessment, Fort Wingate Depot Activity, Gallup, New Mexico, Inland Pacific Engineering Company.		
SWMU <del>13D</del>	11 or 12	Building 18 (Entrance Guardhouse)	Bldg. 18 (Entrance Guardhouse) includes a septic system.	<u>Did not manage hazardous waste or hazardous constituents at this location.</u>	-(1) May 1961, Facilities Data, p. 23-27, 31, 171. (2) March 1990, Enhanced Preliminary Assessment, p. 46, 62, 63, 66, 70.
SWMU <del>13E</del>	11	Building T-17 (Corral and Living Quarters)	Bldg. T-17 (Corral and Living Quarters) includes a septic system.	<u>Did not manage hazardous waste or hazardous constituents at this location.</u>	(1) May 1961, Facilities Data, p. 128. (2) March 1990, Enhanced Preliminary Assessment, p. 46, 62, 63, 66, 70.
SWMU <del>13F11B</del>	6	Building 542 (Ammunition Workshop) <u>and Building 541</u>	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>SWMU 47 (Building 541) was combined with this SWMU.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990,

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					Enhanced Preliminary Assessment
SWMU <del>1412</del>	22	Building 536 (Inspectors Workshop and Ammunition Renovation Depot) (includes one former PCB transformer)	May 1961 Facilities Data indicates that munitions were inspected at this location. A 1961 photo shows a loading dock. This SWMU includes a septic system that consists of septic tank, cesspool, drain field, an outfall to an arroyo, piping, and manholes, which are depicted on a 1954 engineering drawing. According to 1961 Facilities Data, Bldg. 536 was built in 1943 and was an Ammunition Inspectors Workshop that was connected to a sanitary sewer. According to 1990 Enhanced PA, Bldg. 536 was an Ammunition Renovation Building in which they repainted, restenciled, removed paint,	<u>No change.</u>	(1) May 1961 Facilities Data, p. 23-27, 84. (2) March 1990 Enhanced Preliminary Assessment, p. 43, 70. (3) November 1997, RI/FS, p.7-138 through 7-140 and p. 10-5 through 10-7. (4) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.

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			and repacked munitions. Bldg. 536 is currently used by TPL for munition disassembly operations (July 5, 2000 fax from Larry Fisher to Julie Wanslow).		
SWMU <del>15</del> 13	18	Eastern Landfill	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	No change.	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
SWMU <del>16</del> 14	3	Old Burning Ground and Demolition Landfill Area (Includes KGA-3, KGA-4, KGA-5, KP-2, KP-3, KP-4, Arroyo in Fenced Up Horse Valley, and Dump Pile)	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).		(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
SWMU <del>17</del> 15	3	Old Demolition Area (includes Inactive EOD Area, KGA-1, KGA-2, Old OB/OD & Buried White Phosphorus Rounds, and Three Mounds in Fenced-Up	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	No change.	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment

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		Horse Valley)			
SWMU <del>1816</del>	16, may include 15	Functional Test Range 2/3	This is a closed range slated for transfer; therefore any munitions and/or munitions constituents no longer being used for their intended purpose are waste. According to Archive Search Report, FTR 2 was used to test a variety of munitions, rockets, and mortars, while FTR 3 was used to test high explosives. According to the 1998 Final Removal Report, during a 1996 surface clearance, five OE items were recovered from four grids within FTR 2/3, including 4 pounds of explosive chunks, two ounces of loose HE, two 20 mm tracer practice rounds, and one 37 mm (AP, M51 B1) projectile. There is a potential for hazardous and toxic waste in grid BD15 based upon the visible stains remaining on the	<u>No change.</u>	(1) February 15, 1963, General Site and Building Use Map, FWDA Drawing Number 666. (2) March 1990, Enhanced Preliminary Assessment, p. 18, 57, 58, 59, 62, 65, 67, 71. <del>(43)</del> December 1994, Unexploded Ordnance (UXO) Survey Report, Fort Wingate Depot Activity, Gallup, New Mexico, Environmental Resources Management, Inc. <del>(54)</del> July 1995, Archive Search Report, p. 4-3, 7-3 and Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and

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			ground after the work force recovered loose explosives in the grid (p. 2-9).		Eddy, p.4-62 to 4-63), Appendix E-2 (Site Visit No. 1, April 24 and 25, 1995); 1973 aerial photo (API-5) in separate binder. ( <del>65</del> ) November 1997, RI/FS, p. 7-118 to 7-120. ( <del>76</del> ) December 18, 1998, Final Removal Report, OE Sampling and Removal Action, prepared by CMS Environmental, Inc., p. 2-5, 2-9, 4-1, 4-2).
SWMU <del>1917</del>	2	Western Rifle Range	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>No change.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
AOC <del>2018</del>	9, 24	Igloo Block A	The Igloo Blocks areas contain numerous features including munition storage igloos, earthen munition storage revetments (Y-structures), ponds, railroad	<u>No change.</u>	(1) 1980 USATHAMA Report 136 (1980 Report 136, 1982 Installation Environmental Assessment, prepared

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			<p>spurs, former or existing PCB transformers, a variety of buildings and structures, including container storage pads and loading docks, and may include subsurface disposal areas. It is reasonable to assume that spills and releases occurred during normal Army operations when loading and transporting military munitions and other types of materials.</p> <p>Each igloo has two drain pipes that discharge to the surface soil in front of each igloo on either side of the front door. There is a release to the environment from the igloos based on soil sampling for explosives conducted outside and in front of the igloos (see details below). There is a release to the environment based on soil sampling for PCBs and pesticides in an igloo block</p>		<p>by United States Army Toxic and Hazardous Material Agency (2) September 19, 1981, Environmental Survey of Fort Wingate Depot Activity, Gallup, New Mexico, prepared by Environmental Science and Engineering, Inc. (ESE), prepared for United States Army Toxic and Hazardous Materials Agency (USATHAMA) (3) September 1986, Magazine Area, Mobilization Master Plan, Project Phasing Plan, Sheet 4 of 4, Drawing No. 18-08-04. (4) March 1990, Enhanced Preliminary Assessment, p. 38, 53, 55, 70. (5) August 12, 1993, EPA OSWER Directive 9360.3-12,</p>

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			<p>area (March 1990, Enhanced Preliminary Assessment Report) (see details below). There is a threat of a release to the environment from the igloos when the inside of the igloos are washed based on elevated levels of explosives and various metals in the sediment and wash water.</p> <p>Concentrations of lead exceeding regulatory levels were detected in the sediment of wash water that was generated during the cleaning of the inside of several igloos (see details below). FWDA has not sampled for other potential contaminants such as perchlorate. According to the August 12, 1993, EPA OSWER Directive 9360.3-12, Response Actions at Sites with Contamination Inside Buildings: "In general, authority to</p>		<p>Response Actions at Sites with Contamination Inside Buildings.</p> <p>(6) July 1995, Archive Search Report, p. 6-4, 7-1, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p. 2-27, Table 2.6, p 4-53 to 4-56), and Appendix E-2 (Site Visit No. 1, April 24 and 25, 1995).</p> <p>(7) November 15, 1997, RI/FS, p. 7-7 to 7-14.</p> <p>(8) March 1997, Fort Wingate Pilot Wash Final Work Plan.</p> <p>(9) December 1997, Fort Wingate Igloo Pilot Wash Final Report, Vol. 1 and 2.</p>

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			<p>respond to a release or threat of a release from a building exists if at least one person or the environment outside the building may be exposed to the release. For example, if the hazardous substance, pollutant, or contaminant can migrate through, a window or through the foundation or building structure into the soil, creating exposures to persons or hazards to the environment, a sufficient basis may exist to show that there is a threat of a release into the environment requiring the cleanup of the interior of the building. It also may be possible to show that there is a threat that contaminated articles, clothing, or even parts of the structure itself may be inadvertently removed from the building and, thus, a</p>		<p>(10) 1999, Storage Igloo Inspection and Review, prepared by the Naval Surface Warfare Center for BLM.                      (11) 1999 Evaluation of Four Sampling Methods for Determining Exposure of Children to Lead-Contaminated Household Dust.                      (11) 1999 Derivation of Wipe Surface Screening Levels for Environmental Chemicals, Industrial Scenarios, Interim Report.                      (12) September 29, 2000, Public Health Implications for Reuse of Munition Storage Magazines (Igloos).                      (13) November 1, 2000, Storage Magazine Decontamination Plan</p>

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			<p>release or threat of release of a hazardous substance, pollutant, or contaminant may exist."</p> <p>According to the 1990 Enhanced PA, herbicides have been applied around and on the igloos to control weeds (p. 55).</p> <p>FWDA has not collected a sufficient number of samples from appropriate locations and analyzed them for all potential contaminants. (e.g, explosive compounds, perchlorate, PCBs, pesticides, metals).</p> <p>According to the 1997 RI/FS, explosives were detected in the interior of 19 out of 62 igloos</p> <p>There are between 700 and 800 igloos at FWDA.</p> <p>Explosives compounds have been detected in soil samples collected in the vicinity of igloos in several igloo blocks.</p>		<p>and IOC P 385-1, Classification and Remediation of Explosive Contamination, Fort Wingate Depot Activity (informally known as the Igloo Visual Inspection Report).</p>

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<del>2119</del>	21	Building 501 (Former Boiler House and Heating Plant No. 7)	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	No change.	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
<del>2220</del>	7	Western Landfill	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	AOCs 145 and 149 (features identified on air photos) were combined with this SWMU.	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
<del>2321</del>	23	Central Landfill	Included in the 1990 EPA RCRA Facility Assessment Report (RFA).	<u>No change.</u>	(1) Sept. 26, 1990, RCRA Facility Assessment Report (2) March 1990, Enhanced Preliminary Assessment
<del>2422</del>	2	Group C Landfill	Waste was disposed at this location.	<u>No change.</u>	March 1990, Enhanced Preliminary Assessment
<del>2523</del>	11	Building 8 (Paint Shop or Carpenter Shop) <u>and Building 7 (Paint Shop and Paint Storage Warehouse)</u>	<del>No Army comment.</del> <u>Hazardous constituents were managed at this location and hazardous waste may have been generated at this location.</u>	<u>SWMU 69 (Building 7) was combined with this SWMU.</u>	(1) May 1961, Facilities Data, p. 90. (2) March 1990, Enhanced Preliminary Assessment, p.16, 42. (3) July 1995, Archive Search Report,

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					Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p. 4-43). (4) November 1997, RI/FS, p. 7-39 to 7-42.
SWMU <u>2624</u>	11	Building 15 (Garage and Storage Bldg. <del>and Heating Plant</del> <del>No. 4</del> )	According to 1961 Facilities Data, Bldg. 15 was used for heavy equipment, including electrical and mechanical equipment. According to the March 1990 Enhanced PA, Bldg. 15 was used in the past for heavy equipment and automotive maintenance, spray painting, battery charging, plumbing and electrical works, and the mixing of insecticide and pesticides. However, since 1980 it has been reportedly used for general storage and waste	<u>No change.</u>	(1) May 1961, Facilities Data, p. 28- 31, 88. (2) March 1990, Enhanced Preliminary Assessment, p. 40, 42, 44, 63, 66, 69. (3) September 26, 1990, RCRA Facility Assessment Report, prepared for EPA, prepared by PRC Environmental Management, p 6. (4) July 1995, Archive Search Report, Appendix D-3 (November 1992,

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			oil storage. Waste materials generated in the building include waste oils, solvents, sulfuric acid, greases, and minor amounts of insecticides and pesticides. 1,1,1 trichloroethane was identified as being used in the past until about April 1989 when it was replaced with naphtha. According to the Sept. 26, 1990 RFA, Bldg. 15 was used for automotive maintenance, <del>spray paintings</del> <u>spray-painting</u> , battery charging, forging, plumbing, electrical work, roads and grounds activities, mixing of insecticides and pesticides. Potential contaminants include oils, grease, sulfuric acid, Stoddard solvent, paint, aldehyde, thinner, carbon tetrachloride, metal and abrasive dusts, metal and flux, Sanfax cleaner (methylene chloride,		Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p.4-34 to 4-35). (5) July 1, 1996, Lead-Based Paint Inspection Report. (6) November 1997, RI/FS, p. 7-19 through 7-21.

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			<p>methyl chloroform, liquid detergent and emulsifier), and pesticide/herbicides (Malathion, Dieldrin, Chlordane, DDT, Diazinon, Warfarin, Dalapon, Sodium Salt).</p> <p>According to the 1961 Facilities Data, Bldg. 15 housed Heating Plant No. 4 (coal stoker fired) which had steam transmission lines to the Post Restaurant (Bldg. S-41) (p. 29). The steam (heat) distribution system is described in the 1961 Facilities Data (p. 28-31).</p>		
<u>SWMU 2725</u>	7	Trash Burning Ground Property Disposal Office	Waste was disposed at this location.	<u>AOCs 147, 148, 150 (features identified on air photos) were combined with this SWMU.</u>	March 1990, Enhanced Preliminary Assessment
<u>SWMU 2826</u>	10	<u>Suspected POL Area. Large berm north of the railroad classification yard.</u>	According to the July 2, 2002 Permit Application, the 1997 Proposal for NFA for the Suspected POL Area contained documentation that the large earthen berm was an	<u>No change.</u>	(1) July 11-15, 1988, Ground Water Contamination Survey (2) March 1990, Enhanced Preliminary Assessment, p. 18, 45. September 1986,

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			<p>explosive safety barricade used to separate potentially dangerous railcars from others and that the site was not related to POL disposal operations. "Potentially dangerous railcars" implies damaged railcars or railcars with shifted loads. Both situations could result in the release of the railcar contents during mitigation of the dangerous conditions through repair or unloading operations.</p> <p>The earthen pile measures 250 feet long, 50 feet wide and 25 feet high.</p> <p>Methylene chloride was detected in two soil samples: at concentrations of 31 ppb and 160 ppb.</p> <p>This area is identified as Rail Car Suspect Holding Area on the Sept. 1986, Administration Area, Mobilization Master Plan, Project Phasing Plan, September 1986, Sheet 3 of</p>		<p>Administration Area, Mobilization Master Plan, Project Phasing Plan, Sheet 3 of 4, prepared by U.S. Army Corps of Engineers, Albuquerque District and Fort Worth District, Drawing No. 18-08-04.</p> <p>(3) November 1997, RI/FS, p. 7-52 to 7-53.</p> <p>(4) February 12, 1999, No Further Action Proposal, Suspected POL Area.</p> <p>(5) December 2002, Environmental Site Assessment Report (Phase 1) for Parcels 5, 8, 10, and 14 at Fort Wingate Depot Activity, prepared by Tetra Tech, prepared for the Bureau of Land Management.</p>

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			4.		
SWMU <u>2927</u>	22	Building 528 <del>Complex. and TPL discharges at Bldg. 528</del> <u>Includes Building 528 (Ammunition Normal Maintenance Building), temporary storage igloo), AOC 121 (Building 528B, temporary storage igloo), AOC 122 (Building 529), AOC 125 (Building 550, vacuum collector barricade), AOC126 (Building 551, service magazine)</u>	According to the 1980 Report No. 136, industrial activities included ammuniton demil, milling and tapping, spray painting, and stenciling. Potential contaminants include oils, greases, propellants, metal fragments, and paint and thinner residues. According to the 1997 RI/FS, concentrations of VOCs, SVOCs, explosives and metals were detected in soil samples. TPL discharged wastewater contaminated with blasting gel/slurry on the ground outside the southeast door of Bldg. 528 into an outdoor concrete sump, which discharged wastewater onto the ground immediately adjacent to the sump via an overflow pipe (or outfall). The wastewater flowed on top of the ground for about 80 feet before	<del>AOC 120 (Building 528A, temporary storage igloo), AOC 121 (Building 528B, temporary storage igloo), AOC 122 (Building 529), AOC 125 (Building 550, vacuum collector barricade), AOC126 (Building 551, service magazine) were combined with this SWMU.</del>	(1) May 1961, Facilities Data, p. 82. (2) January 1980, Report No. 136, Installation Assessment, p. 24. (3) March 1990, Enhanced Preliminary Assessment, p. 43,49. (4) July 1995, Archive Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p.4-52). (5) November 1997, RI/FS, p. 7-99 to 7-103. (6) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-

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			soaking into the ground and down the floor drains inside Bldg. 528. In addition, TPL discarded pieces of blasting gel/slurry onto the ground outside the southeast door of Bldg. 528. According to the May 9, 2002, Analysis Report for the Fort Wingate Explosives Inspections, wastewater collected from the outdoor concrete sump and soil samples collected adjacent to and downgradient from the outdoor concrete sump contained metals, nitrocellulose, perchlorate, 2,4-dinitrotoluene, HMX, various phthalate constituents, and 2,4-D. According to Pinnacle Laboratory Analyses dated August 23, 2000 (PL I.D. 007075) and Metropolitan Waste District of Southern California Laboratory Analyses dated September		21. (7) August 23, 2000, Pinnacle Laboratory Analyses, PL I.D. 007075. (8) September 1, 2000, Metropolitan Waste District of Southern California Laboratory Analyses, Perchlorate Results, AWWA Research Foundation Project No. 2508. (9) October 4, 2000, Pinnacle Laboratory Analyses, PL I.D. 009083. (10) May 9, 2002, Analysis Report for the Fort Wingate Explosives Inspections, Gallup, New Mexico, prepared for Eberline Services, prepared by EOD Technology, Inc., p. 1-4.

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			1, 2000, ground water samples from a monitor well (TMW-5) located downgradient from Bldg. 528 contained perchlorate at concentrations of 2860 ug/L and 2550 ug/L. According to Pinnacle Laboratory Analyses dated October 4, 2000 (PL I.D. 009083), samples collected of sodium nitrate pellets used by TPL as an ingredient in their blasting gel/slurry contained a concentration of perchlorate at 1,310,000 ug/kg.		
AOC <u>3028</u>	6	Igloo Block B	See comment for SWMU 20 (Igloo Block A)	<u>No change.</u>	Same as Igloo Block A, with the addition of the following: (1) December 1994, Unexploded Ordnance (UXO) Survey Report, Fort Wingate Depot Activity, Gallup, New Mexico, Environmental Resources Management, Inc., p.

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					3-1, 3-4, 3-7, Appendix B and D. (2) July 1995, Archive Search Report, p. 6-4, 7-1, 1948 aerial photos (API-1 and API-2) in separate binder. (3) December 1997, Fort Wingate Igloo Pilot Wash Final Report, Vol. 1 and 2. (4) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21 and 5-1.
AOC <del>3129</del>	2, 4, 19, 23	Igloo Block C	See comment for SWMU 20 (Igloo Block A)	<u>No change.</u>	Same as Igloo Block A.
AOC <del>3230</del>	19, 22	Igloo Block D	See comment for SWMU 20 (Igloo Block A)	<u>No change.</u>	Same as Igloo Block A, with the addition of the following: (1) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
AOC	19	Igloo Block E	See comment for SWMU	<u>No change.</u>	Same as Igloo Block

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<del>3331</del>			20 (Igloo Block A)		A.
AOC <del>3432</del>	19	Igloo Block F	See comment for SWMU 20 (Igloo Block A)	<u>No change.</u>	Same as Igloo Block A.
SWMU <del>3533</del>	3	Waste Pile KP1	No Army Comment	<u>No change.</u>	
AOC <del>3634</del>	19	Igloo Block G	See comment for SWMU 20 (Igloo Block A))	<u>No change.</u>	Same as Igloo Block A.
AOC <del>3735</del>	2	Igloo Block H	See comment for SWMU 20 (Igloo Block A)	<u>No change.</u>	Same references as for Igloo Block A with the addition of the following: (1) July 1995, Archive Search Report, p. 7-1 and Appendix H (Summary of Interviews). (2) December 1996, Draft Survey and Analysis Report, Second Edition, prepared by the U.S. Army Program Manager for Chemical Demilitarization, p. 5- 1, 5-8, A-19, A-26, NM-1 through NM-4.
AOC <del>3836</del>	2	Igloo Block J (includes Missile	See comment for SWMU 20 (Igloo Block A)	<u>No change.</u>	Same as for Igloo Block A with the

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		Launch Pad used by MDA)			addition of the following: (1) 1980 Report 136, 1982 Installation Environmental Assessment, p. 22. (2) March 1990, Enhanced Preliminary Assessment, p. 13, 18. (3) July 1995, Archive Search Report, p.7-7.
SWMU <del>3937</del>	11	Building 9 (Machine Shop <del>and</del> ; Signal Shop <del>and Heating</del> <del>Plant No. 3</del> )	According to the 1961 Facilities Data, the west wing includes a fully equipped machine shop with railroad tracks inside, a section for blacksmithing, signal repair, millwright storage and office. According to the 1980 Report No. 136, industrial activities included machine shop, blacksmithing, welding, cleaning metal parts, electrical repairing, and disposal of fluorescent tubes (underwater in closed box). Potential contaminants include		(1) May 1961, Facilities Data, p. 28- 31, 91. (2) January 1980, Report No. 136, Installation Assessment, p. 23. (3) March 1990, Enhanced Preliminary Assessment, p. 16, 42.

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			coolants, metal fumes, Stoddard solvent, carbon tetrachloride, and beryllium phosphors. According to the 1990 Enhanced PA, Bldg. 9 is the Allied Trade Shop. Army added Bldg. 9 to AUA because they wanted to investigate it and clean it up.		
SWMU <del>4038</del>	20	Functional Test Range 1	<u>According to the 1990 Enhanced PA (p. 58), this range is approximately one square mile in size and contains "a great deal of shrapnel" indicating the presence of waste military munitions.</u>	<u>No change.</u>	(1) January 1980, Report No. 136, Installation Assessment, p. 22,. (2) March 1990, Enhanced Preliminary Assessment, p. 18, 57, 58, 62, 65, 67, 71. (3) December 1994, Unexploded Ordnance (UXO) Survey Report, Fort Wingate Depot Activity, Gallup, New Mexico, Environmental Resources Management, Inc. (4) July 1995, Archive Search Report, p. 7-3

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					and Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p.4-62 to 4-63), Appendix E-2 (Site Visit No. 1, April 24 and 25, 1995), Appendix E-2 (Site Visit No. 2, July 11, 1995). (5) November 1997, RI/FS, p. 7-116 to 7- 118. (6) December 18, 1998, Final Removal Report, OE Sampling and Removal Action, prepared by CMS Environmental, Inc. (7) June 2000, Investigation Report, Further Site Characterization, Functional Test Range

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					1, Fort Wingate Depot Activity, Gallup, New Mexico, prepared by Tetra Tech NUS, Inc.
SWMU <del>4139</del>	19	Pistol Range	No Army comment.	<u>No change.</u>	(1) March 1990, Enhanced Preliminary Assessment, p. 18, 59, 65, 67, 71. (2) November 1997, RI/FS, p. 7-120 to 7-121.
SWMU <del>4240</del>	11	Southern Administration Area  Formerly named the Coal Tar Storage Tanks (Structures 58, 59, and 60), <del>and 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 #5), AOC 55 (Structure T-49), AOC 56 (Building T-50), AOC</del>	The Southern Administration Area is defined as the area south of the railroad tracks adjacent to the north of Buildings 12, 13 and 14 that extend to Arterial Road #7. Arterial Road #7 comprised the western boundary of the SWMU. The south and east extent of this SWMU are defined by the fence line shown in the March 1990, Enhanced Preliminary Assessment, p. 41 (Figure 3.1).  This SWMU includes the	<del>SWMU 42 (Buildings 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 #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) were</del>	(1) May 1961, Facilities Data. (2) March 1990, Enhanced Preliminary Assessment. (3) July 1995, Archive Search Report, p. 7-7 and Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy. (3) November 1997, RI/FS.

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		<p><u>72 (Building 14), SWMU 77 (Building T-34), AOC 83 (Structure 63), and AOC 87 (Structure 57) electrical transformer on pole (L2-13A)</u></p>	<p>following units listed in the 2004 FWDA Draft Permit Attachment 8: SWMU 42 (Buildings 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 #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).</p> <p>The activities associated with the Southern Administrative Area include railcar loading and unloading and maintenance, management of damaged railcars, fueling operations, munitions inspection, storage and management, vehicle</p>	<p><u>combined with this SWMU. The electrical transformer on pole (L2-13A) was combined with AOC 75 (former AOC 133).</u></p>	<p>(4) January 1980, Report No. 136, Installation Assessment, p. 25. (5) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22 (6) July 1995, Archive Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy. (7) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32 (8) February 1998, Final Draft Minimum Site Assessment Report, prepared by</p>

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			maintenance, PCB-containing transformers and other operations. Evidence of contaminant releases have been detected within the SWMU boundaries.		U.S. Army Corps of Engineers, prepared for Tooele Army Depot (this is an attachment to the January 11, 1999 No Further Action letter from the UST Bureau to Tooele Army Depot.
<del>AOC 4341</del>	16	Igloo Block K	See comment for SWMU 20 (Igloo Block A).	<u>No change.</u>	Same as Igloo Block A.
<del>AOC 44</del>	2	Former Fluorspar Storage Area (west of Igloo Block H and along railroad and Road O-110)		<u>Did not manage hazardous waste or hazardous constituents at this location.</u>	
<del>AOC 45</del>	2 or 3	Former, Above Ground Storage Tank near Gate 209	<p>Army must investigate soils beneath ASTs to determine if a release occurred.</p> <p>Former 168-gallon diesel fuel above ground storage tank was installed in the 1960s. According to 1990 Enhanced PA, the two 1,000 gallon diesel fuel tanks that were located near Bldg. 530 were moved to Gate 209. The Enhanced</p>	<u>No evidence of a release based on June 30, 2005 inspection.</u>	(1) March 1990, Enhanced Preliminary Assessment, p. 57-58, 65.

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			PA states that "several above ground storage tanks are suspected of contaminating the soil below them".		
<del>AOC 46</del>	Exact parcels unknown, may include 5, 6, 7, 9, 10, 11, 13, 14, 16, 18, 21, 22, 23	Pre-1940s munitions storage area (includes 163 to 164 magazines, size of each magazine = 20 ft by 56 ft)	Each Igloo Block is considered to be an AOC and will be investigated separately. Several Igloo Blocks contain units included in the AOC (46).  This unit as defined in the 2004 FWDA Draft Permit includes 164 large former wooden magazines used from 1918 or 1919 to 1940 to store 80% of the Army's supply of bulk TNT and Explosive D (or Yellow D). Wooden magazines can be seen on 1935 aerial photos and on Jan. 15, 1933 map which was originally prepared Jan. 23, 1919 and updated on Jan. 15, 1933.	<del>The units are parts of igloo blocks. Each Igloo Block is considered to be an AOC and will be investigated separately. Several Igloo Blocks contain units included in AOC 46. In addition, these units will be identified as part of the historical review required to be conducted for each land parcel under Permit Section VIII.</del>	(1) May 1961, Facilities Data, p. 11. (2) December 2, 2002 submittal from BLM, packet of CDs in black zippered case, 1935 aerial photos. (3) July 1995, Archive Search Report, p. 4-3. (4) December 2002, Environmental Site Assessment Report (Phase 1) for Parcels 5, 8, 10, and 14 at Fort Wingate Depot Activity, prepared by Tetra Tech, prepared for the Bureau of Land Management. (5) Wingate Ordnance Depot Map, January 15, 1933. The map is dated Jan. 15, 1919 with a revision dated

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					Jan. 15, 1933.
<del>SWMU 47</del>	6	Building 541 (Heating Plant No. 10)		<del>Combined with SWMU 11B (Building 542).</del>	(1) May 1961, Facilities Data, p. 28- 31, 146. (2) March 1990, Enhanced Preliminary Assessment, p. 49, 64, 84. (3) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2- 21 and 4-3.
<del>SWMU 48</del>	6	Building 10 (Salvage Bldg., Coal Test Bldg., Carpenter Shop)	According to 1961 Facilities Data, Building 10 was a Salvage and Coal Test Bldg. According to 1980 Report No. 136, Bldg. 10 was a Carpenters Shop.	<del>Combined with SWMU 40 (South Administration Area).</del>	(1) May 1961, Facilities Data, p.107. (2) January 1980, Report No. 136, Installation Assessment, p. 25. (3) March 1990, Enhanced Preliminary Assessment, p. 41. (4) March 2000, Phase I Environmental Site Assessment Final

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					Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
<del>SWMU 49</del>	11 and/or 6	Building 12 (Inert Storage West Warehouse) (includes OE burial between Bldg. 11 and 12)	This includes OE burial area between Building 11 and 12. According to 1961 Facilities Data, Bldg. 12 was equipped with concrete loading platforms on each side for railroad car and truck loading. <del>According to the 2000 Phase I Environmental Site Assessment (p. 2-21)</del>	<del>Combined with SWMU 40 (South Administration Area)</del>	(1) May 1961, Facilities Data, p. 104. (2) March 1990, Enhanced Preliminary Assessment, p. 16. (3) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
<del>AOC 50</del>	6	Building 13 (Inert Storage Central Warehouse)	According to 1961 Facilities Data, Bldg. 13 was connected to a sanitary sewer and was equipped with concrete loading platforms on each side for railroad car and truck loading.	<del>Combined with SWMU 40 (South Administration Area)</del>	(1) May 1961, Facilities Data, p. 105. (2) March 1990, Enhanced Preliminary Assessment, p. 16. (3) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
<del>SWMU 51</del>	6	Building 29 (former Herbicide Storage Building and Ammunition Linking,	According to 1961 Facilities Data, Bldg. 29 was originally used as an Ammunition Linking,	<del>Combined with SWMU 40 (South Administration Area)</del>	(1) May 1961, Facilities Data, p. 110. (2) March 1990, Enhanced Preliminary

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		Belting, and Clipping Building)	Belting, and Clipping Building. According to 1990 Enhanced PA, Blg. 29 was an Inert Storage Warehouse and was used to store herbicides. Based on very limited sampling (1997 RI/FS), metals were detected above background and VOCs and pesticides also were detected. The samples were not tested for explosive compounds.		Assessment, p. 41, 51, 66, 69. (3) July 1995, Archive Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p. 4-42). (4) November 1997, RI/FS, p. 7-37 through 7-38. (5) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
<del>SWMU 52</del>	6	Building T-33 (S-33, Dunnage Shop, Carpentry Shop)	According to 1961 Facilities Data, S-33 was a Dunnage Shop and was equipped with woodworking power tools. According to 1980 Report No. 136 and 1990	<del>Combined with SWMU 40 (South Administration Area)</del>	(1) May 1961, Facilities Data, p. 54. (2) January 1980, Report No. 136, Installation Assessment, p. 25. (3) March 1990,

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			Enhanced PA, Bldg. T-33 was a Carpentry Shop and activities that took place included woodworking and paint removal. Possible contaminants include paint and abrasive dusts.		Enhanced Preliminary Assessment, p. 16, 41, 42. (4) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
<del>SWMU 53</del>	6	Building 36 (Heating Plant No. 6)	Building 36 houses Heating Plant <del>No.6 which</del> <u>No.6, which</u> includes associated steam lines. According to 1961 Facilities Data, Bldg. 36 is the administration area central heating plant, contains one boiler system and is described in the 1961 Facilities Data (p. 28-31)	<u>Combined with SWMU 40 (South Administration Area)</u>	(1) May 1961, Facilities Data, p. 28-31, 142. (2) March 1990, Enhanced Preliminary Assessment, p. 16, 41. (3) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
<del>SWMU 54</del>	6	Underground Storage Tank (UST #5) located on west side of Building 36	This is a former 4,000-gallon tank used to store diesel for steam generating boilers in Bldg. 36. According to March 1990, Enhanced Preliminary	<u>Combined with SWMU 40 (South Administration Area)</u>	(1) May 1961, Facilities Data, p. 142. (2) March 1990, Enhanced Preliminary Assessment, p. 57, 58, 67, 72.

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			Assessment, the capacity was 1,000 gallons. According to the 1990 Enhanced Preliminary Assessment, old fuel tanks installed in the early 1940s were replaced in the early 1970s.		(3) November 1997, RI/FS, p. 2-35 through 2-41.
<del>SWMU 55</del>	6	Structure T-49 (Salvage Shed)	According to the 1961 Facilities Data, Structure T-49 was used for salvage storage.	<u>Combined with SWMU 40 (South Administration Area)</u>	(1) May 1961, Facilities Data, p. 111. (2) March 1990, Enhanced Preliminary Assessment, p. 41.
<del>AOC 56</del>	6	Building T-50 or S-50 (former Dunnage Reclamation Building)	According to the 1961 Facilities Data, Building S-50 was originally used as a Dunnage Reclamation Building. After S-33 was constructed in 1943, the east portion of S-50 was closed with wood siding and used as a closed storage area. The open portion was used as an MHE storage area. The open portion was later used as a metal salvage operation area.	<u>Combined with SWMU 40 (South Administration Area)</u>	(1) May 1961, Facilities Data, p. 112. (2) March 1990, Enhanced Preliminary Assessment, p. 41.
<del>SWMU</del>	6	Building 516	Management of military	<del>SWMU 58 (Structure</del>	(1) May 1961,

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<del>57</del> AOC <del>42</del>		(Ammunition Receiving Building)	munitions occurred at this site.	<del>544, earth barricade) was combined with this SWMU.</del>	Facilities Data, p. 77. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) March 1990, Enhanced Preliminary Assessment, p. 17. (4) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
<del>AOC 58</del>	6	Structure 544 (Earth Barricade)	Structure 544 is located in the Workshop Area in Parcel 6 and is located west and adjacent to Building 516.	<del>Combined with SWMU 42 (Building 516, Ammunition Receiving Building)</del>	(1) May 1961, Facilities Data, p. 64, 65.
AOC <del>59</del> <del>43</del>	7	Railroad Classification Yard	This is located east of Service Road No. 1. According to the 1961 Facilities Data, the Railroad Classification Yard has active tracks with a <del>56</del> <del>ear</del> <del>56-car</del> capacity and inactive tracks with a <del>250</del> <del>ear</del> <del>250-car</del> capacity (p. 35).	<del>No change.</del>	(1) May 1961, Facilities Data, p. 34-36. (2) January 1980, Report No. 136, Installation Assessment, p. 37. (3) March 1990, Enhanced Preliminary

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			The railroad system, including the holding track sidings, loading docks, spurs, holding yards, and associated buildings are described in the 1961 Facilities Data, p. 34-36. According to the January 1980, Report No. 136, Installation Assessment, herbicides were used along railroad tracks, around sewers, and industrial lines.		Assessment, p. 41.
<del>AOC-60</del>	7 and 11	Fluorspar Storage Area (south of the Railroad Classification Yard)	This Fluorspar Storage Area is located in Admin. Area, south of the Railroad Classification Yard, just east of the railroad, and west of Bldg. T-26 and T-50 and is depicted on the September 1986, Magazine Area, Mobilization Master Plan.	<del>Did not manage hazardous waste or hazardous constituents at this location.</del>	(1) January 1980, Report No. 136, Installation Assessment, p. 22. (2) September 1986, Magazine Area, Mobilization Master Plan, Project Phasing Plan, Sheet 4 of 4, Drawing No. 18-08-04. (3) December 2002, Environmental Site Assessment Report (Phase 1) for Parcels 5, 8, 10, and 14 at Fort Wingate Depot

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					Activity, prepared by Tetra Tech, prepared for the Bureau of Land Management.
<del>AOC 61</del>	8	Fluorspar Storage Area (west of junction of West Patrol Road and Arterial Road No. 1)	This Fluorspar Storage Area is located in the western buffer land, along and beyond property boundary west of junction of West Patrol Road and Arterial Road No. 1 and is depicted on the September 1986, Magazine Area, Mobilization Master Plan.	<u>Did not manage hazardous waste or hazardous constituents at this location.</u>	1) January 1980, Report No. 136, Installation Assessment, p. 22. (2) September 1986, Magazine Area, Mobilization Master Plan, Project Phasing Plan, Sheet 4 of 4, Drawing No. 18-08-04.
AOC <del>6244</del>	10	Former Administration <u>and Utilities Area</u> <del>and Airport</del>	AOC 62 is Feature 9 on 1948 aerial photos (API-1 and API-2) and Feature 7 on 1962 aerial photo (API-3) in 1995 Archive Search Report. See July 10, 2003 submittal from BLM that includes 1919 map showing structures and their function for the "Utilities Area" which is what we have been calling the Former Administration Area.	<u>No change except for unit designation.</u>	(1) July 1995, Archive Search Report, 1948 aerial photos (API-1 and API-2) and 1962 aerial photo (API-3). (2) December 2, 2002 submittal from BLM, packet of CDs, 1935 aerial photo (1935-2125) and 1952 (1952_6-191) (3) December 2002, Environmental Site Assessment Report (Phase 1) for Parcels 5,

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					8, 10, and 14 at Fort Wingate Depot Activity. (4) "Wingate Ordnance Depot Map, January 15, 1933." 1935 historic aerial photograph of the "Utilities Area" (otherwise known as the Old Administration Area) (5) Jan. 23, 1919 map "Wingate Ordnance Depot General Map" (updated in Jan. 15, 1933).
<del>SWMU 63</del>	11	Building 2 (Family Quarters, Water Treatment Plant, Dispensary, Heating Plant No. 1, and three, PCB transformers in vault)	According to March 1990 Enhanced PA, Bldg. 2 was used as a Clinic and Water Treatment and had three 41-gallon PCB transformers located near vault "c" in the north side of Bldg. 2.	<u>Combined with AOC 75 (formerly AOC 133, PCB Transformers).</u>	(1) May 1961, Facilities Data, p. p. 17 - 21, 28-31, 125. (2) January 1980, Report No. 136, Installation Assessment, p. 33. (3) March 1990, Enhanced Preliminary Assessment, p. 16, 50 through 51, 66, 69.
SWMU	11	Building 6	According to 1961	<u>SWMUs 65, 66, 67 and</u>	(1) May 1961,

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<del>6445</del>		(Gas Station)	Facilities Data, Blg. 6 was equipped with two gas pumps, one kerosene pump, compressor and accessories for general service of automotive equipment.	<del>68 (Gas Station USTs) were combined with this SWMU.</del>	Facilities Data, p. 47. (2) March 1990, Enhanced Preliminary Assessment, p. 16, 41, 57, 58. (3) November 1997, RI/FS, p. 2-35 through 2-41.
<del>SWMU 65</del>	11	Underground Storage Tank (UST #1, Structure 75) located on west side of Blg. 6	The PSTB (formerly the USTB) NFA letter is dated January 11, 1999. This is a former 12,000-gallon tank used to store leaded gas. Tank (Structure 75) was constructed in 1945, had a capacity of 11,750 gallons, and was used to store gas (May 1961 Facilities Data)	<del>Combined with SWMU 45 (Gas Station).</del>	(1) May 1961, Facilities Data, p. 48. (2) March 1990, Enhanced Preliminary Assessment, p. 57, 58, 67, 72. (3) November 1997, RI/FS, p. 2-35 through 2-41.
<del>SWMU 66</del>	11	Underground Storage Tank (UST #2, Structure 76) located on west side of Building 6	The PSTB NFA letter is dated January 11, 1999. This is a former 12,000-gallon tank used to store unleaded gas. Tank (Structure 76) was constructed in 1944, had a capacity of 11,750 gallons, and was used to store gas (May 1961 Facilities Data).	<del>Combined with SWMU 45 (Gas Station).</del>	(1) May 1961, Facilities Data, p. 49. (2) March 1990, Enhanced Preliminary Assessment, p. 57, 58, 67, 72. (3) November 1997, RI/FS, p. 2-35 through 2-41.
<del>SWMU</del>	11	Underground Storage	The PSTB NFA letter is	<del>Combined with SWMU</del>	(1) May 1961,

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<del>67</del>		Tank (UST #3, Structure 77) located on south side of Building 6	dated January 11, 1999. This is a former 12,000-gallon tank used to store diesel. Tank (Structure 77) was constructed in 1945, had a capacity of 11,750 gallons, and was used to store diesel (May 1961 Facilities Data).	<del>45 (Gas Station).</del>	Facilities Data, p. 50. (2) March 1990, Enhanced Preliminary Assessment, p. 57, 58, 67, 72. (3) November 1997, RI/FS, p. 2-35 through 2-41.
<del>SWMU 68</del>	11	Underground Storage Tank (UST #4, Structure 78) located on north side of Bldg. 6	The PSTB NFA letter is dated January 11, 1999. This is a former 1,000-gallon tank used to store kerosene. Tank (Structure 78) was constructed in 1961 and was used to store kerosene (May 1961 Facilities Data)	<del>Combined with SWMU 45 (Gas Station).</del>	(1) May 1961, Facilities Data, p. 51. (2) March 1990, Enhanced Preliminary Assessment, p. 57, 58, 67, 72. (3) November 1997, RI/FS, p. 2-35 through 2-41.
<del>SWMU 69</del>	11	Building 7 (Paint Shop and Paint Storage Warehouse)	According to 1961 Facilities Data, Bldg. 7 was a Paint Shop and connected to the sanitary sewer. According to the 1990 Enhanced PA, Bldg. 7 was a Paint Storage Warehouse and activities included painting and stripping. Possible contaminants	<del>Combined with SWMU 23 (Building 8, Paint Shop or Carpenter Shop)</del>	(1) May 1961, Facilities Data, p. 89. (2) March 1990, Enhanced Preliminary Assessment, p. 41, 42.

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			include alkali strippers, thinners, greases, and oils.		
<del>SWMU 70</del> AOC <u>46</u>	11	Above Ground Tank located near Blg. 11	Army must investigate soils beneath ASTs to determine if a release occurred. This is a 420-gallon diesel fuel, above ground storage tank that was installed in the 1960s. According to 1990 Enhanced Preliminary Assessment (p. 65), several above ground storage tanks are suspected of contaminating the soil below them.	<u>No change. Duplicate site was designated as AOC 85 (AOC 85 was deleted).</u>	(1) March 1990, Enhanced Preliminary Assessment, p. 57-58, 65.
<u>AOC 7147</u>	11	<u>TPL spill of photoflash powder west of Blg. 11</u>	A photoflash contaminant release occurred on Facility property. The release was not cleaned up; therefore, this is an AOC. In October 2001, TPL spilled photoflash powder on the ground west of Blg. 11. The photoflash powder consisted of dried residue from photoflash tanks that had been used in the late 1990s for a perchlorate recycling project. During	<u>No change.</u>	(1) Hazardous Waste Manifests dated June 10, 1997, August 5, 1997, and February 17, 1998 (Manifest Numbers: NMR00000021646254 , NMR00000021646189 , NMR000000216TPL0 1. (2) December 31, 1999, Fax from TPL

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			<p>the late 1990s, TPL disassembled photoflash cartridges that contained perchlorate in Bldg. 551, placed the photoflash powder in tanks, and attempted to segregate the perchlorate from other ingredients. During the photoflash recycling project, there were several tank meltdowns (due to exothermic reactions), which resulted in the release of photoflash solution. After the tank meltdowns, TPL discontinued the perchlorate recycling project. In November 1999, TPL sampled the liquid and sludge residues in the photoflash tanks prior to shipping them offsite for disposal. Based on the November 1999 analyses, the photoflash residue contained barium, lead, chromium, mercury,</p>		<p>(Al Oram) to NMED (Chris Serazio), (includes November 1999 analytical results of photoflash residue samples collected from tanks used for perchlorate recycling project). (3) March 19, 2002, Cost Estimate to Provide Environmental Services at Fort Wingate, FWDA, Building 11, Barium Investigation/Remediation Proposal, prepared by Roy F. Weston, Inc., Houston, Tx.</p>

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			nitrobenzene, and chlorobenzene. According to the November 1999 analyses and copies of the associated hazardous waste manifests, the photoflash residue (liquids and sludges) were disposed of as hazardous waste due to the characteristic of ignitability (D001), corrosivity (D002), and toxicity characteristic due to barium (D005), chromium (D007), and nitrobenzene (D036). At the time of the NMED inspection dated April 9-12, 2002, TPL had not completed cleaning up the spill by Blg. 11. During the April 9-12, 2002 NMED inspection, TPL provided NMED with a cost estimate to complete cleaning up the spill (March 19, 2002, Cost Estimate to Provide Environmental Services at Fort Wingate).		

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<del>AOC 72</del>	11	Building 14 (Inert Storage East Warehouse)	According to 1961 Facilities Data, Bldg. 14 includes concrete platforms on each side for railroad car and truck loading.	<del>Combined with SWMU 40 (Southern Administration Area)</del>	(1) May 1961, Facilities Data, p. 108. (2) March 1990, Enhanced Preliminary Assessment, p. 16.
<del>SWMU 73</del>	11	Building 20 (Battery Charging Building.)	According to 1980 Report No. 136, activities that took place in Bldg. 20 included battery charging. Potential contaminants include corrosive substances and metals.	<del>Duplicate of SWMU 9 (Building 537, Pesticide and Field Battery Shop)</del>	(1) January 1980, Report No. 136 Installation Assessment, p. 24.
<del>AOC 74</del>	11	Building T-24 (Building S-24, Thermometer Shelter)	According to the 1961 Facilities Data, Building S- 24 was used as a recording thermometer shelter, and was constructed of wood and had a wooden floor.	<del>Did not manage hazardous waste or hazardous constituents at this location.</del>	(1) May 1961 Facilities Data, p. 172. (2) March 1990, Enhanced Preliminary Assessment, p. 41.
<del>AOC 75</del>	11	Structure T-25 (Structure S-25, Officer and Civilian Garage)	According to the 1961 Facilities Data, Structure S- 25 served as a garage for cars.	<del>Did not manage hazardous waste or hazardous constituents at this location.</del>	(1) May 1961 Facilities Data, p. 132. (2) March 1990, Enhanced Preliminary Assessment, p. 41.

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<del>SWMU 76 AOC 7648</del>	11	Building 34 (Fire Station <del>and Heating Plant No. 5</del> )	Heating Plant No. 5 includes associated steam lines. According to 1961 Facilities Data, the west end was used for automotive and fire apparatus storage and the east end was used as fire fighters headquarters and also had the Post Switch Board Room. According to 1990 Enhanced Preliminary Assessment, p. 43 activities that took place in Bldg. 34 included filling fire extinguishers, and machining and grinding metals. Potential contaminants include carbon tetrachloride, metal and abrasive dusts.	<u>There is insufficient evidence in the Administrative Record for this unit to be considered a SWMU.</u>	(1) May 1961 Facilities Data, p. 28-31, 134. (2) March 1990, Enhanced Preliminary Assessment, p. 41, 43.
<del>SWMU 77</del>	11	Building T-34 (Wood Shops)	According to 1980 Report No. 136, activities that took place in Bldg. T-34 included woodworking and paint removal. Potential contaminants include paint and abrasive dusts.	<u>Combined with SWMU 40 (South Administration Area).</u>	(1) January 1980, Report No. 136 Installation Assessment, p. 24. (2) March 1990, Enhanced Preliminary Assessment, p. 43.

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AOC <del>7849</del>	11	Structure 38 (End Loading Dock) and Structure 39 (Side Loading Dock)	Structure 38 is smaller loading dock located at end of railroad spur and Structure 39 is larger loading dock located on north side of railroad spur and east of Bldg. 9.	<u>No change.</u>	(1) May 1961, Facilities Data, p. 56, 57. (1) March 1990, Enhanced Preliminary Assessment, p. 41.
<del>AOC-79</del>	11	Building 45 (Water Pump House)	According to the 1961 Facilities Data, Building 45 is a water pump house that housed one <del>electrically-driven</del> electrically driven pump and one standby gasoline-driven high service water pump.	<u>Did not manage hazardous waste or hazardous constituents at this location.</u>	(1) May 1961, Facilities Data, p. 159.
SWMU <del>8050</del>	11	Structure 35 (Underground Storage Tank <u>(UST #7)</u> located by Building 45)	According to 1961 Facilities Data, Structure 35 was a 120-gallon steel UST used to store gasoline for use with the 75 gpm standby gasoline water pump located in Building 45.	<u>No change.</u>	(1) May 1961, Facilities Data, p. 176. (2) March 1990, Enhanced Preliminary Assessment, p. 57, 58, 67, 72.
<del>AOC-81</del>	11	Structure 46 (Water Storage Tank)	<u>According to the</u> 1961 Facilities Data, Structure <u>46</u> was a <u>200 million gallon water storage tank</u> located on a hill east of the Administration well and	<u>Did not manage hazardous waste or hazardous constituents at this location.</u>	(1) May 1961, Facilities Data, p. 159. (2) November 1997, RI/FS, p. 2-37, 2-41.

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			approximately 155 feet higher than the Administration Area.		
<del>SWMU 82</del>	11	Underground Storage Tank (UST #7) located by Structure 46.	This is a former 250-gallon steel tank located on north side of Structure 46, which was used for leaded gas to fuel a gasoline powered generator in Structure 46. According to the Feb. 1998, Final Draft Minimum Site Assessment Report, this UST was located on the east side of Structure 46. When UST #7 was removed on Feb. 15, 1995, personnel observed holes in the bottom of the tank (probably from corrosion) and stained soil in the tank excavation pit. An initial soil sample from the excavation contained TPH at 7,600 ppm and BTEX at 447 ppm. No other soil samples were collected. During the drilling of six soil borings, only PID readings were collected.	<del>Duplicate of SWMU 50.</del>	(1) 1997, Draft Minimum Site Assessment Report, FWDA, Fort Wingate, NM, U.S. Army Corps of Engineers. (2) November 1997, RI/FS, p. 2-37, 2-41. (3) February 1998, Final Draft Minimum Site Assessment Report, prepared by U.S. Army Corps of Engineers, prepared for Tooele Army Depot (this is an attachment to the January 11, 1999 No Further Action letter from the UST Bureau to Tooele Army Depot.)

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			<p>PID readings from Soil Boring 1 (SB-1) ranged up to 2202 ppm , which exceeded the UST Action Level of 100 ppm. Elevated PID readings were detected in SB-1 down to a depth of 50 feet. MW-1, MW-2, and MW-3 were installed to monitor releases from UST #7. These wells were only sampled one time only for BTEX and lead, and were never sampled for MTBE. Based on the one time sampling, benzene was detected at 4.5 ug/L in MW-1 (toluene, ethyl benzene, and xylenes were not detected.) Depth to water (DTW) data was not provided in the 1997 RI/FS or the Feb. 1998 Final Draft Minimum Site Assessment Report. However, the DTW in MW-18, 20, and 22 (which are nearby) is about 42 to 44 feet below</p>		

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			<p>the surface. According to the Nov. 1997 RI/FS (p. 2-41), "Survey data for the monitor wells was not available at the time this document's submittal. These data are necessary to determine the ground water elevations and thus, ground water flow direction. Surveying of these wells is scheduled for Nov. 1997." The Feb. 1998 Final Draft Minimum Site Assessment Report did not include the survey data for these wells and did not include potentiometric contour maps showing the water elevations and flow directions.</p>		
<del>AOC 83</del>	6 or 11	Building/ Structure 63 (along the railroad tracks northwest of Blg. 29 and southeast of Structure 64)	Building/Structure 63 is depicted on the Sept. 1986 Administration Area Map as being along the railroad tracks northwest of Blg. 29 and southeast of Structure 64. However, the 1961 Facilities Data describes	<del>Combined with SWMU 40 (South Administration Area)</del>	(1) September 1986, Administration Area, Mobilization Master Plan, Project Phasing Plan, Sheet 3 of 4 (Drawing No. 18-08-04).

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			Building/Structure 63 as being the Imhoff Tank for the Sewage Treatment Plant.		
<del>SWMU 84 AOC 8451</del>	6 or 11	Structure 64 (Underground Storage Tank)	According to the 1961 Facilities Data, Structure 64 was a 300 gallon, steel UST which was used to store diesel. The tank was constructed in 1956 and used to provide fuel for the stand-by generating plant. It appears that the stand-by generating plant is Bldg. 11.  It is not clear where this tank is located. The Sept. 1986 Administration Area Map depicts Structure 64 as being along the railroad tracks northwest of Blg. 29..	<u>There is insufficient evidence in the Administrative Record for this unit to be considered a SWMU.</u>	(1) May 1961, Facilities Data, p. 138. (2) September 1986, Administration Area, Mobilization Master Plan, Project Phasing Plan, Sheet 3 of 4 (Drawing No. 18-08-04).
<del>SWMU 85</del>	11	Structure 65 (Above Ground Storage Tank)	Army must determine if a release occurred from the AST.  This is a 400-gallon, steel above ground tank, which was used to store diesel fuel. The tank was	<u>Duplicate of AOC 46.</u>	(1) May 1961, Facilities Data, p. 139. (2) March 1990, Enhanced Preliminary Assessment, p. 67 (3) September 1986, Administration Area,

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			constructed in 1944 and used to provide fuel for the stand-by electric generating plant. It is not clear if Structure 65 is the same as T-65. According to 1961 Facilities Data, Structure 65 is depicted on FWOD Drawing No. 569. According to the Sept. 1986 Administration Area Map, T-65 is depicted on north side of Bldg. 11, near the northeast corner. According to 1990 Enhanced Preliminary Assessment (p. 67), several above ground storage tanks are suspected of contaminating the soil below them.		Mobilization Master Plan, Project Phasing Plan, Sheet 3 of 4 (Drawing No. 18-08-04).
<del>AOC 86</del>	11	Building 48 (Heavy Implement Building)	Building 48 is located in the northwest quadrant of the Administration Area, between the Coal Storage Area, which is part of the Fenced Storage Yard (SWMU 3) and the Primary Transformer Bank	<del>Did not manage hazardous waste or hazardous constituents at this location.</del>	(1) March 1990, Enhanced Preliminary Assessment, p. 41.

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			(Structure 81).		
<del>AOC 87</del>	11	Structure 57 (Coal Chute, Coal Bin and Trestle)	Structure 57 is located immediately adjacent and south of Coal Tar Storage Tank Area (SWMU 42).	<u>Combined with SWMU 40 (South Administration Area).</u>	(1) May 1961, Facilities Data, p. 58. (2) March 1990, Enhanced Preliminary Assessment, p. 41.
AOC <del>8852</del>	11	Building 79 and Building 80 (Storage Vaults)	According to 1961 Facilities Data, Bldg. 79 and 80 were two brick fireproof vaults used to store documents and were later used to store miscellaneous inflammable materials. The types of materials stored were not identified; however, the unidentified materials that were handled could have resulted in a release.	<u>No change.</u>	(1) May 1961, Facilities Data, p.113, 114. (2) March 1990, Enhanced Preliminary Assessment, p. 41.
<del>SWMU 89</del>	11	Structure 81 (Primary Transformer Bank or Substation).	According to 1961 Facilities Data, Structure 81 is an outdoor fenced primary sub-station that consists of three, 200 KVA General Electric transformers. Army must determine if a release of PCBs to the environment has occurred. (See AOC	<u>Combined with AOC 75 (formerly AOC 133).</u>	(1) May 1961, Facilities Data, p. 141. (2) March 1990, Enhanced Preliminary Assessment.

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			133 comments)		
AOC <u>9053</u>	13	Lake Knudson	The 1995 Archive Search Report provides the 1981 sample results of one surface water and one sediment sample collected from Lake Knudson and one ground water sample collected downgradient of the lake. The 1981 results were from the 1981 Environmental Survey of FWDA, prepared by Environmental Science and Engineering, Inc (ESE): a surface water sample contained elevated chromium (8.9 ug/L); a sediment sample contained elevated oil and grease (750 mg/kg); and a ground water sample collected downgradient of lake contained elevated antimony (47 ug/L), nitrate and nitrite (8 mg/L as nitrate) and sulfate (2,460 mg/L). Based on 1992 sampling (see 1997 RI/FS),	<u>No change.</u>	(1) March 1990, Enhanced Preliminary Assessment, p. 40, 62, 63, 71. (2) July 1995, Archive Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p. 2-40, 2-41, 4-66) and 1962 aerial photo (API-3) in separate binder. (3) November 1997, RI/FS, p. 7-125 through 7-130.

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			<p>sediment, surface water, and ground water contained elevated levels of metals and nitrate above background. The sediment and surface water samples were not tested for PCBs. See ground water sample results for FW-35 located downgradient of Lake Knudson (p. 7-128 of RI/FS).</p> <p>Lake Knudson is the same as Feature 16 on 1962 aerial photo (API-3) in 1995 Archive Search Report.</p>		
<del>AOC-91</del>	13	Structure 52 (Booster Pump House)	<p>According to the 1961 Facilities Data, Structure 52 houses a water pump that pumps water from Structure 46 to the elevated Structure 53 and is located on a hill east of the Administration well.</p>	<p><del>Did not manage hazardous waste or hazardous constituents at this location.</del></p>	<p><del>(1) May 1961, Facilities Data, p. 162.</del></p>
<del>AOC-92</del>	13	Structure 53 (Water Tower near Lake Knudson)	<p><del>According to the</del> 1961 Facilities Data, Structure 53 is a <u>water storage tank</u> located on a hill east of the</p>	<p><del>Did not manage hazardous waste or hazardous constituents at this location.</del></p>	<p><del>(1) May 1961, Facilities Data, p. 163.</del></p>

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			Administration well.		
AOC <u>9354</u>	13	Building 311 (Standard Magazine)	Blg. 311 stored military munitions and has a loading dock on the side facing the railroad. Bldg. 311 is located on Arterial Road No. 5 near Lake Knudson.	<u>No change.</u>	(1) May 1961, Facilities Data, p. 93. (2) March 1990, Enhanced Preliminary Assessment, p. 53, 55, 70.
AOC <u>9455</u>	13	Structure 506 (TNT Storage Barricade)	According to 1961 Facilities Data, this three-sided earthen structure is open to the east and was used to store loaded vans of explosives in the Workshop Area. Recovered military munitions were handled at this location.	<u>No change.</u>	(1) May 1961, Facilities Data, p. 99. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) July 1995, Archive Search Report, 1962 aerial photo (API-3) in separate binder.
AOC <u>9556</u>	13	Structure 533 (Explosive Barricade)	This three-sided earthen structure was used as an explosive barricade and is open to the south and is located in the Workshop Area on Service Road 4 east of Structure 506 (TNT Storage Barricade). Recovered military munitions were handled at this location.	<u>No change.</u>	(1) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32.

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<del>AOC 96</del>	13 and 16	Former DOE Equipment Storage Area	This includes a triangular shaped tract of land west of Road O-1. According to the Enhanced PA, DOE has an agreement to store instrumentation and equipment associated with atmospheric measurements.	<u>There is insufficient evidence in the Administrative Record for this unit to be considered an AOC.</u>	<del>(1) 1980 Report 136, 1982 Installation Environmental Assessment, p. 22. (2) March 1990, Enhanced Preliminary Assessment, p. 13, 18, 55. (3) July 1995, Archive Search Report, p.7-7.</del>
AOC <del>9757</del>	16	Buildings 306, 307, 308, 309, 310 (Standard Magazines near Knudson Lake)	This AOC includes railroad spurs along Arterial Road No. 5 near Lake Knudson. Military munitions were handled and stored at these locations.	<u>No change.</u>	(1) May 1961, Facilities Data, p. 93. (1) 1980 Report 136, 1982 Installation Environmental Assessment, p. 22. (2) March 1990, Enhanced Preliminary Assessment, p. 13, 18, 53, 55, 70. (3) July 1995, Archive Search Report, p.7-7.
AOC <del>9858</del>	19	Buildings 303 and 304 (Standard Magazines) and 320 (Field Dunnage Building along Arterial Road No. 3)	According to the 1961 Facilities Data, Buildings 303 and 304 are standard, above-ground magazines which have a loading dock (10 ft by 219 ft), railcar loading side only. Military	<u>No change.</u>	(1) May 1961, Facilities Data, p. 93. (2) March 1990, Enhanced Preliminary Assessment, p. 53, 55, 70.

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			munitions were handled and stored at these locations.		
<del>SWMU 99</del> AOC <del>9959</del>	19	Building T-422 (former Blg. X-11, Normal Maintenance Blg., Bomb and Shell Paint Blg.)	Building T-422, which no longer exists, was located south of Pond 425 and at the end of Road O-12 which branches off of Arterial Road No. 2 (see Feb. 15, 1963, General Site and Building Use Map, FWDA Drawing No. 666). Bldg. T-422 was constructed in 1945 and used for ammunition normal maintenance. There is a photo of it in the 1961, Facilities Data document. The 1961 Facilities Data references an engineering drawing of Bldg. T-422. According to the 1990 Enhanced Preliminary Assessment, activities at Bldg. X-11 included spray painting. Possible contaminants included thinner and paint.	<u>There is insufficient evidence in the Administrative Record for this unit to be considered a SWMU.</u>	(1) May 1961, Facilities Data, p. 69. (2) February 15, 1963, General Site and Building Use Map, FWDA Drawing Number 666. (3) March 1990, Enhanced Preliminary Assessment, p. 42.
<del>AOC 100</del>	19	Pond 425 (Structure 425)	According to the 1990	<u>Combined with Igloo</u>	(1) May 1961,

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		or Earthen Dam Reservoir in Igloo Block D)	Enhanced PA, an environmental survey was conducted by USATHAMA in 1981. Based on this 1981 USATHAMA survey, dieldrin (a pesticide) and the polychlorinated biphenyl (PCB) Aroclor 1016 were detected in a sediment sample collected from Pond 425 in Igloo Block D area.	<u>Block D.</u>	Facilities Data, p. 170. (2) March 1990, Enhanced Preliminary Assessment, p. 38. (3) November 1997 RI/FS, p. 7-11.
<del>SWMU 101</del> AOC <u>60</u>	21	Building <u>522 formerly designated as Building 500</u> (Ammunition Receiving Bldg.)	According to the Jan. 1980 Report No. 136, munitions were received, unpacked, broken down in Bldg. 500. Industrial activities at Bldg. 500 included brush stenciling (i.e., painting), removing rusty bomb fins, and refuzing shells. Possible contaminants included solvents, carbon tetrachloride, and TNT.	<u>There is insufficient evidence in the Administrative Record for this unit to be considered a SWMU.</u>	(1) January 1980, Report No. 136 Installation Assessment, p. 24.
AOC <del>10261</del>	21	Building 507 (Smokeless Powder Magazine)	According to the 1961 Facilities Data, Building 507 was used to store smokeless powder and was	<u>No change.</u>	(1) May 1961, Facilities Data, p. 100. (2) September 1986, General Site Map,

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			used on conjunction with the Ammunition Renovation Building (Blg. 522).		Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) March 1990, Enhanced Preliminary Assessment, p. 17.
AOC <del>10362</del>	21	Building 508 (Smokeless Powder Magazine)	According to the 1961 Facilities Data, Building 508 was used to store smokeless powder and was used in conjunction with the Ammunition Renovation Building (Blg. 522).	<u>No change.</u>	(1) May 1961, Facilities Data, p. 100. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) March 1990, Enhanced Preliminary Assessment, p. 17.
<del>SWMU</del> <del>104</del> AOC <del>10463</del>	21	Building 509 (Primary Collector Barricade or Propellant Baghouse)	According to the 1961 Facilities Data, Bldg. 509 was used in conjunction with the Ammunition Renovation Building (Bldg. 522). According to a former FWDA employee (Pete Olivar), Bldg. 509 was used as a Propellant Baghouse that received propellant dust from dry break down of munitions in Ammunition Renovation	<u>There is insufficient evidence in the Administrative Record for this unit to be considered a SWMU.</u>	(1) May 1961, Facilities Data, p. 73. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) February 16, 2001, Site Visit, FWDA Field Log Book, Vol. 2, Julie Wanslow, p. 75.

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			Building (Bldg. 522) (FWDA Field Log Book, p. 75).		
AOC <del>10564</del>	21	Building 510 (Vacuum Producer Building)	According to the 1961 Facilities Data, Bldg. 510 was used in conjunction with the Ammunition Renovation Building (Bldg. 522). Bldg. 510 was used to produce vacuum for the Propellant Baghouse (Bldg. 509). <del>Contained</del> <del>m</del> Machinery that would have required lubricants and possibly the use of solvents for machine maintenance were housed in Bldg. 510.	<u>No change.</u>	(1) May 1961, Facilities Data, p. 74. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) March 1990, Enhanced Preliminary Assessment, p. 17. (4) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2- 21.
AOC <del>10665</del>	21	Building 511 (Service Magazine)	According to the 1961 Facilities Data, Building 511 was used on conjunction with the Ammunition Renovation Building (Bldg. 522). According to a former FWDA employee (Pete Olivar), Buildings 511, 512, and 513 were used for	<u>No change.</u>	(1) May 1961, Facilities Data, p. 101. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) February 16, 2001, Site Visit, FWDA Field Log Book, Vol.

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			segregated storage of primers, igniters, etc. from dry break down of munitions in Ammunition Renovation Building (Bldg. 522) (FWDA Field Log Book, p. 75).		2, Julie Wanslow, p. 75.
AOC <del>10766</del>	21	Building 512 (Service Magazine)	According to the 1961 Facilities Data, Building 512 was used on conjunction with the Ammunition Renovation Building (Bldg. 522). According to a former FWDA employee (Pete Olivar), Buildings 511, 512, and 513 were used for segregated storage of primers, igniters, etc. from dry break down of munitions in Ammunition Renovation Building (Bldg. 522) (FWDA Field Log Book, p. 75).	<u>No change.</u>	(1) May 1961, Facilities Data, p. 101. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) February 16, 2001, Site Visit, FWDA Field Log Book, Vol. 2, Julie Wanslow, p. 75.
AOC <del>10867</del>	21	Building 513 (Service Magazine)	According to the 1961 Facilities Data, Building 513 was used on conjunction with the Ammunition Renovation	<u>No change.</u>	(1) May 1961, Facilities Data, p. 101. (2) September 1986, General Site Map, Workshop Area,

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			Building (Bldg. 522). According to a former FWDA employee (Pete Olivar), Buildings 511, 512, and 513 were used for segregated storage of primers, igniters, etc. from dry break down of munitions in Ammunition Renovation Building (Bldg. 522) (FWDA Field Log Book, p. 75).		Drawing No. 18-02-04, Sheet 24 of 32. (3) February 16, 2001, Site Visit, FWDA Field Log Book, Vol. 2, Julie Wanslow, p. 75.
<del>SWMU 109</del> AOC <u>68</u>	21	Structure 514 (Deboosting Barricade) and Structure 545 (Earthen Barricade)	According to the 1961 Facilities Data, Structure 514 was used in conjunction with the Ammunition Renovation Building (Bldg. 522). Military munitions were managed and stored at this site. Structure 514 looks very similar to Structure 520 (Work Mount Pier for the Disassembly Plant) and appears to have also served as a munitions disassembly site (FWDA Field Log Book, p. 87).	<u>There is insufficient evidence in the Administrative Record for this unit to be considered a SWMU.</u>	(1) May 1961, Facilities Data, p. 75. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32.
<del>SWMU</del>	21	Building 522	According to the 1961	<u>Duplicate of AOC 60.</u>	(1) May 1961,

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<del>110</del>		(Ammunition Renovation Building)	Facilities Data, Bldg. 522 was constructed in part from a bundle ammunition area building in 1948. Modification consisted of tearing down the bundle ammunition building, utilizing the dock area to build a permanent type structure, which included various processing rooms. According to a former FWDA employee (Pete Olivar), Building 522 was used for the dry break down of munitions (FWDA Field Log Book, p. 75).		Facilities Data, p. 80. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) March 1990, Enhanced Preliminary Assessment, p. 49, 64, 84. (4) February 16, 2001, Site Visit, FWDA Field Log Book, Vol. 2, Julie Wanslow, p. 75.
<del>AOC 111</del>	21	Structure 545 (Earth Barricade)	Structure 545 is located in Parcel 21 and is south of Structure 514 (Deboosting Barricade).	<u>Combined with AOC 68.</u>	(1) May 1961, Facilities Data, p. 64, 65. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32.
AOC <del>112</del> 69	22	Buildings 301, 302, and 312 (Standard Magazines), Building 316 (Field Lunch	Buildings 301, 302, 312, 316, 317, and 319 are currently being used by TPL. According to the	<u>Buildings 317 and 319 (Safety Shelters). There is insufficient evidence in the Administrative</u>	(1) May 1961, Facilities Data, p. 93, 118, 59. (2) March 1990,

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		Room), <del>Buildings 317 and 319 (Safety Shelters)</del>	1961 Facilities Data, Buildings 301, 302, and 312 are standard, above-ground magazines which have a loading dock (10 ft by 219 ft), railcar loading side only. According to the 1961 Facilities Data, Building 316 (Field Lunch Room) was later used for inert storage. "Inert storage" is not described.	<u>Record for these buildings to be considered part of the AOC.</u>	Enhanced Preliminary Assessment, p. 53, 55, 70. (3) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
SWMU <del>H370</del>	22	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	Disassembly Plant is located along Service Road No. 5. The TPL QA Test Area is located along Service Road No. 5 and is located within the Disassembly Plant Area between Structure 520 and Structure 521. According to 1961 Facilities Data, the Disassembly Plant was used for ammunition disassembly operations and includes: Building 517 (Equipment Storage Building); Structure. 518 (Remote Control Shelter);	<u>No change.</u>	(1) May 1961, Facilities Data, p. 78, 79, 102, 119, 140. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) March 1990, Enhanced Preliminary Assessment, p. 17. (4) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.

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			<p>Building 519 (Motor Generating Building and later designated Transformer Building), which contains electrical substation/ switch station and houses 1-3 and 1-5 KVA electrical transformers that were used to provide electric power to the Disassembly Plant; Structure 520 (Work Mount Pier equipped with overhead deluge for fire protection); Structure 521 (Timber Revetted Barricade); Structure 547 is an Earthen Barricade immediately adjacent to Structure 520. Structure 547 (Earthen Barricade) was included with the Disassembly Plant because of its close proximity to Structure 520, which suggests that it was a component of the same operation and it has the potential to be</p>		<p>(5) May 9, 2002, Analysis Report for the Fort Wingate Explosives Inspections, Gallup, New Mexico, prepared for Eberline Services, prepared by EOD Technology, Inc., p. 1-4.</p>

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			<p>contaminated from the Disassembly Plant operations. The TPL QA Test Area has been used by TPL for open burning/open detonation (OB/OD) of propellant, munitions, explosives, and blasting gel. Based on employee interviews that were conducted at the time of the April 9-12, 2002 NMED inspection, the waste streams that were burned or detonated at the TPL QA test area include: rejected or off-spec blasting slurry product, propellant, photoflash equipment containing explosive photoflash residue, 4,000 to 5,000 old file destroyers containing an oxidizer, 24 to 36 C-513 cartridges from 105mm APRS-TXM 546 projectiles, a 105 mm Howitzer round, a 60mm illuminating flare, and a 4.2 candle. According to the</p>		

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			<p>May 9, 2002 Analysis Report for the Fort Wingate Explosives Inspections, an NMED contractor collected a soil sample on April 11, 2002 (sample number BP-01-01-041102) from the TPL QA test area (which had been graded over) and analyzed in the field using Immunoassay field test kits for TNT (EPA Method 4050) and RDX/nitrocellulose (EPA Method 4051). The soil sample contained RDX/nitrocellulose at 2.7 ppm. Buildings/Structures 518, 519, 520, 521, and 547 are currently being used by TPL.</p>		
AOC <del>H471</del>	22	Former rectangular structure near TMW-5 and north of Blg. 528	During March 6, 2001 site visit, a rectangular concrete foundation (16 ft by 40 ft) reinforced with rebar and anchor bolts was found located immediately north of TMW-5 and about 40	<u>No change.</u>	(1) March 6, 2001, Site Visit, FWDA Field Log Book, Vol. 2, Julie Wanslow, p. 87.

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			feet from Arterial Road No. 6.		
<del>AOC H5</del>	22	Former Storage Pad at east end of Service Road No. 2 and north of Blg. 528	The Former Storage Pad is located about 600 feet north of TMW-5 and east of the intersection between Service Road No. 2 and Arterial Road No. 6.	<u>There is insufficient evidence in the Administrative Record for this unit to be considered an AOC.</u>	(1) <del>September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32.</del>
SWMU <del>H672</del>	21 and may include 22	Deactivation Furnace, Deactivation Furnace Acid Pits, and surrounding area (includes pre-1958 buildings, <del>OE subsurface disposal areas,</del> and <del>burn</del> areas in the vicinity of Blg. 530)	This SWMU includes Deactivation Furnace (Building 530), Deactivation Furnace Acid Pits, subsurface disposal areas, burn areas, and any pre-1958 buildings or structures. According to the March 1990 Enhanced Preliminary Assessment, the white phosphorus recovery/phosphoric acid production operation began in 1982 and terminated in or before 1986. White phosphorus was punched out of military munitions and burned to produce phosphoric pentoxide, which was then passed through a water scrubbing	<u>There is insufficient evidence in the Administrative Record regarding subsurface disposal and burn area to be included in the site description.</u>	(1) March 1990, Enhanced Preliminary Assessment, p. 1, 14, 17, 18, 52, 53, 62, 64, 66, 70, . (2) September 26, 1990 RCRA Facility Assessment Report, p. 43, 44, 62. (3) December 1994, Unexploded Ordnance (UXO) Survey Report, Fort Wingate Depot Activity, Gallup, New Mexico, Table D-1. (4) July 1995, Archive Search Report, Appendix E-4. (5) November 1997 RI/FS, p. 7-90. (6) December 1998,

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			<p>system to produce phosphoric acid. The "Acid Pits" received overflow from the phosphoric acid tanks. The acid was sold to a commercial carrier to produce fertilizers. After the operation was terminated parts of the furnace were dismantled and disposed of in the "Acid Pits." According to the September 26, 1990 RCRA Facility Assessment:, "Specifically, the contents of the acid pits should be investigated, and these pits should be closed in an appropriate manner. The acid pits are a potential source of ground water contamination. Furthermore, insufficient information is available to permit the assumption that there are no other potential contaminant sources associated with this</p>		<p>Final Removal Report, OE Sampling and Removal Action, prepared by CMS Environmental, Inc., Vol. I, p. 2-8, 2-9. (7) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21 and 1952 aerial photo on CD (52_6_193). (8) June 1, 2000, Package Prepared for the FWDA Annual Unit Audit Conference Call on June 5, 2000, prepared by Tooele Army Depot, package includes (a) a 5-page information paper on the RCRA Facility Assessment SWMUs, Deactivation Furnace, the OB/OD Grounds, and a proposed Annual Unit Audit List; (b)</p>

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			<p>SWMU". May include subsurface disposal areas include burial of OE and OE scrap. May include pre-1958 buildings or structures that can be seen on the 1952 aerial photo on BLM CD (BLM Environmental Site Assessment, CD #1, FWDA, 1991, 1952, 1935, November 21, 2001, filename: 52_6-193.tif). One large pre-1958 building and two smaller buildings are located south of Blg. 530 and south of and adjacent to Service Road No. 6 as it was configured in 1952. By 1958, these buildings are no longer present. It appears that by 1958, a "Y" was added to Service Road No. 6 and the former buildings may be located under the "Y" or on the south side of the present day Service Road No. 6.</p>		<p>Ammunition Equipment Office (AEO) Report 4-80, dated January 15, 1980, titled "A Proposal for Demilitarization of White Phosphorus Munitions and Manufacture of Commercial Grade Phosphoric Acid"; (c) a set of 5 engineering drawings showing the White Phosphorus Demil Plant set up; and (d) a historical document/information package concerning the Deactivation Furnace dated October 12, 1999, prepared by PMC.</p>

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			<p>During August 10, 2000 site visit, OE scrap (metal ordnance identifier plate), nails, hinges and burned ground were found between railroad spur and Bldg. 530. From August 26 to September 8, 1993, a visual surface survey was performed by UXB on a total of 4 to 5 acres near the deactivation furnace and a total of 47 "live" ordnance items and 1,436 empty ordnance items were found and removed. Table D-1 in the Unexploded Ordnance (UXO) Survey Report dated December 1994 specifies that the 47 of the OE items were "live". From November 2-8, 1993, UXB performed a subsurface survey to a depth of 12 inches, on a total of 0.25 acres of land located south of the Deactivation Furnace between the east-west road</p>		

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			<p>and railroad tracks south of the road. A total of 2,128 ordnance items were located and removed (1995 Archive Search Report (Appendix E-4). During August 1996, FWDA conducted a 100% surface clearance to a depth of about 1 inch on about 10 acres. Eight items of live OE/UXO were found during the surface clearance (December 1998, Final Removal Report, OE Sampling and Removal Action). From May to July 1997, FWDA conducted a 100% subsurface clearance to a maximum depth of about 4 feet on the same 10 acres that had previously been surface cleared in August 1996. Approximately 11,009 pounds of OE-scrap and 6,041 pounds of non-OE scrap were recovered (December 1998, Final</p>		

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			Removal Report, OE Sampling and Removal Action, Vol. I, p. 2-8, 2-9). From 1993 to 1997, four OE clearances were performed and a total of 55 47 "live" OE items, 3,564 non-live OE items, 11,009 pounds of OE-scrap, and 6,041 pounds of non-OE scrap were removed.		
<del>SWMU 117</del>	21	Above Ground Storage Tanks on ridge north of Blg. 530 (two former tanks including T-532)	Army must determine if releases from the ASTs occurred. This includes two former 1000-gallon above ground tanks installed in 1964 and used to supply diesel fuel for powering the Deactivation Furnace (Blg. 530). T-532 is depicted on the Sept. 1986 General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. The 1990 Enhanced Preliminary Assessment includes a photo (photo 17, p. 83) that depicts the two above ground storage tanks	<u>Based on a letter , dated July 29, 2005, summarizing site sampling conducted by the Army in July 2005, there is no evidence of a release from the former ASTs.</u>	(1) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (2) March 1990, Enhanced Preliminary Assessment, p. 53, 57-58, 67, 83, 91.

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			on ridge overlooking Bldg. 530. According to 1990 Enhanced Preliminary Assessment (p. 65), several above ground storage tanks are suspected of contaminating the soil below them.		
<del>SWMU 118</del>	21	Ash/slag disposal area (on ridge north of Deactivation Furnace, Blg. 530)	NMED does not approve of using solid waste as road grade. If Army removes the waste, this AOC will be removed.	<u>Based on a letter, dated July 29, 2005, summarizing ash, slag and debris removal conducted by the Army in July 2005, the material subject to corrective action has been removed.</u>	(1) July 29, 2000, NMED Site Visit, FWDA Field Log Book, Vol. 2, p25, 29.
<del>SWMU 119</del>	22	Building 527 (Heating Plant No. 8, Gas Heat Plant, Boiler Plant)	Heating Plant No. 8 includes associated steam lines. Blg. 527 provides heat for Blg. 528, which is the Ammunition Normal Maintenance Bldg. According to the 1961 Facilities Data, Bldg. 527 included an equipment room that contained a chlorinator and water softener. According to Report No. 136, possible	<u>There is insufficient evidence in the Administrative Record for this unit to be considered a SWMU.</u>	(1) May 1961, Facilities Data, p. 28-31, 144. (2) January 1980, Report No. 136, Installation Assessment, p. 24. (3) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (4) March 1990,

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			contaminants include tannin and sodium phosphate.		Enhanced Preliminary Assessment, p. 64, 84. (5) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
<del>AOC 120</del>	22	Building 528A (Temporary Storage Igloo)	Bldg. 528A is currently being used by TPL. Army comments that the building was used as a staging point for recovered components of military munitions indicating that military munitions were managed and stored at this location.	<u>Combined with SWMU 27 (Building 528 Complex).</u>	(1) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21. (2) December 19, 2002 fax from Larry Fisher to Julie Wanslow.
AOC <del>121</del> <u>75</u>	22	Building 528B (Temporary Storage Igloo)	Bldg. 528B is currently being used by TPL. Used as a staging area for recovered military munitions components.	<u>Combined with SWMU 27 (Building 528 Complex).</u>	(1) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21. (2) December 19, 2002 fax from Larry Fisher to Julie Wanslow.
<del>SWMU 122</del>	22	Building 529 (Flammable Materials Storehouse)	Bldg. 529 is a support building for Bldg. 528, which is the Ammunition	<u>Combined with SWMU 27 (Building 528 Complex).</u>	(1) May 1961, Facilities Data, p. 103. (2) September 1986,

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			Normal Maintenance Building. Army stored flammable materials.		General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
<del>SWMU 123</del>	22	Building 535 (Heating Plant No. 9)	Heating Plant No. 9 includes associated steam lines. Bldg. 535 was the Heating Plant for Bldg. 536, which was the Inspectors Workshop. Bldg. 535 housed a boiler that was fueled by coal.	<u>There is insufficient evidence in the Administrative Record for this unit to be considered a SWMU.</u>	(1) May 1961, Facilities Data, p. 28-31, 145. (2) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (3) March 1990, Enhanced Preliminary Assessment, p. 64, 84. (4) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21.
<del>SWMU 124</del>	22	Underground Storage Tank (UST #6) located	This is a former 2,000 <del>gallon, 000-gallon</del> fiberglass	<u>The Administrative Record indicates that</u>	(1) March 1990, Enhanced Preliminary

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		on the west side of Building 535	<p>tank used to store fuel for steam generating boilers in Bldg. 535 that served Bldg. 536.</p> <p>According to the 1990 Enhanced Preliminary Assessment (p. 67), all underground storage tanks for fuel oil throughout the installation are relatively old and suspected of leaking.</p> <p>According to the 1990 Enhanced Preliminary Assessment (p. 57), old fuel tanks installed in the early 1940s were replaced in the early 1970s</p> <p>TANKS NOT IDENTIFIED IN NFA LETTER.</p>	<u>there was no release at this site.</u>	Assessment, p. 57-58, 67. (3) November 1997, RI/FS, p. 2-35 to 2-38.
<del>SWMU 125</del>	22	Building 550 (Vacuum Collector Barricade)	<p>Bldg. 550 was a former bag house for Bldg. 528. This building produced vacuum for recovery of propellant from military munitions.</p> <p>According to Pinnacle</p>	<u>Combined with SWMU 27 (Building 528 Complex).</u>	(1) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (2) October 4, 2000,

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			Laboratory Analyses dated October 4, 2000 (PL I.D. 009083), one soil sample collected adjacent to Bldg. 550 contained perchlorate at a concentration of 137 µg/kg, which is evidence of a contaminant release.		Pinnacle Laboratory Analyses, PL I.D. 009083.
<del>SWMU 126</del>	22	Building 551 (Service Magazine) and surrounding work area, which includes an outdoor concrete curbed pad located north and west of Blg. 551, and a metal shed and metal elevated tank located north and east of Blg. 551	This includes a metal shed located east of Bldg. 551 that is used to store sodium nitrate pellets and calcium nitrate pellets. An elevated metal tank that stores ammonium nitrate and an outdoor concrete curbed pad was used for a perchlorate recycling project, which is located north and west of Building 551.  During the late 1990s, TPL constructed a concrete curbed pad adjacent to Bldg. 551 for a perchlorate recycling project. TPL disassembled photoflash cartridges that contained perchlorate in Bldg. 551	<u>Combined with SWMU 27 (Building 528 Complex).</u>	(1) September 1986, General Site Map, Workshop Area, Drawing No. 18-02-04, Sheet 24 of 32. (2) March 2000, Phase I Environmental Site Assessment Final Report, Fort Wingate, Parcels 6 and 22, p. 2-21. (3) August 23, 2000, Pinnacle Laboratory Analyses, PL I.D. 007075. (4) August 23, 2000, Pinnacle Laboratory Analyses, PL I.D. 007087. (5) September 1, 2000, Metropolitan Waste

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			and placed the photoflash powder in tanks and attempted to segregate the perchlorate from other ingredients. During the photoflash recycling project, there were several tank meltdowns (due to exothermic reactions), which spilled photoflash (perchlorate) solution onto the outdoor concrete curbed pad. After the tank meltdowns, TPL discontinued the perchlorate recycling project and poured asphalt surface under open-sided, roofed structure next to Bldg. 551 and east of the outdoor, curbed, concrete pad. In November 1999, TPL sampled the liquid and sludge residues in the photoflash tanks prior to shipping them offsite for disposal. Based on the November 1999 analyses, the photoflash residue		District of Southern California Laboratory Analyses, Perchlorate Results, AWWA Research Foundation Project No. 2508. (6) October 4, 2000, Pinnacle Laboratory Analyses, PL I.D. 009090.

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			<p>contained barium, lead, chromium, mercury, nitrobenzene, and chlorobenzene. According to the November 1999 analyses and copies of the associated hazardous waste manifests, the photoflash residue (liquids and sludges) contained perchlorate and was disposed of as hazardous waste due to the characteristic of ignitability (D001), corrosivity (D002), and toxicity characteristic due to barium (D005), chromium (D007), and nitrobenzene (D036). At the time of the NMED inspection dated April 9-12, 2002, TPL did not have any documentation that showed when or how these spills had been cleaned up According to Pinnacle Laboratory Analyses dated August 23, 2000 (PL I.D. 007075) and Metropolitan</p>		

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			<p>Waste District of Southern California Laboratory Analyses dated September 1, 2000, two ground water split samples collected from a monitor well (TMW-5) located downgradient from Bldg. 528 contained perchlorate at concentrations of 2860 µg/L and 2550 µg/L. According to Pinnacle Laboratory Analyses dated August 23, 2000 (PL I.D. 007087) and Pinnacle Laboratory Analyses dated October 4, 2000 (PL I.D. 009090), three soil samples collected adjacent to the outdoor concrete work pad near Bldg. 551 contained perchlorate at concentrations of 335, 492, and 1,560 µg/kg. TPL stores Chilean sodium nitrate pellets in a metal shed next to the outdoor concrete curbed pad. TPL uses the Chilean sodium</p>		

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			nitrate pellets as an ingredient in their blasting gel/slurry, which they produce in Bldg. 528. According to Pinnacle Laboratory Analyses dated October 4, 2000 (PL I.D. 009083), NMED collected a sample of the Chilean sodium nitrate pellets and the sample contained perchlorate at a concentration of 1,310,000µg/kg. At the time of the July 29, 2000, Site Visit, NMED noted the presence of white nitrate pellets scattered on the ground around the outdoor concrete curbed pad and the metal shed.		
AOC <del>12773</del>	23	Former buildings or structures along Road C-3.	During March 6, 2001 site visit, roofing material, metal debris, wood pieces, yellow chunk material were found on the ground surface at this site. Northernmost former building was located next	<u>No change.</u>	(1) May 1961, Facilities Data, p. 28-31, 145.

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			to significant drainage swale (oriented east-west) that empties into main arroyo downgradient from the Central Landfill. Two-ft. long iron pipe (1-inch diameter with bend) was located near drainage swale. Also yellow crystal material was observed in drainage swale.		
SWMU <del>12874</del>	3	Area 16 or Site 16 (Proposed Burning Ground)	According to the 1995 Archive Search Report, a 1958 map depicts the Proposed Burning Ground (p. 7-10) and the area was "proposed for munitions destruction through burning" (p. 6-2). According to the Sept. 11, 2000 Final OE Location and Removal Action, Area 16 was subjected to a limited OE sampling in which OE-related scrap was removed.	<u>Removed pending delineation of the Kickout Area. If this site is determined to be outside of the Kickout Area boundary, it may be added as an AOC.</u>	(1) July 1995, Archive Search Report, p. 6-1, 6-2, 7-6, 7-10; Appendix E-2 (Site Visit No. 1, April 24 and 25, 1995); Figure M-3 (Ordnance Contamination Map); Figure M-4 (Ordnance Contamination Aerial Site Map, aerial photo dated July 5, 1994). (2) September 11, 2000, Final OE Location and Removal Report, Ordnance and Explosives Location and Removal Action,

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					Fort Wingate Depot Activity, New Mexico, Volume I, p. 2-14 through 2-15 (3) August 20, 2002, Memorandum from Dwight Hempel to Fort Wingate Transfer Participants regarding "Area 16 Ordnance and Explosives Location and Removal"
<del>AOC 129</del>	Multi.	Eastern Drainage Area	According to the 1999 Scope of Work for Debris Removal In or Near Watercourses, military debris and construction debris was removed from watercourses in the Eastern portion of FWDA. It appears that this was a partial removal effort. There was no effort to locate or remove buried items or household debris. FWDA should submit a final report with maps that identifies what was done, exactly what was removed,	<u>Contamination in watersheds will be addressed through investigation of contaminant migration from individual SWMUs or AOCs.</u>	(1) May 1961, Facilities Data, p. 27. (2) March 1990, Enhanced Preliminary Assessment, p. 62, 63, 71. (3) July 1995, Archive Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p. 4-65, 4-66).

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			and where. They should identify locations where OE, OE scrap, etc. were removed. The storm water drainage system is described in the 1961 Facilities Data (p. 27).		(4) November 1997, RI/FS, p.7-123 to 7-125. (5) July 9, 1999, Scope of Work for Debris Removal In or Near Watercourses, FWDA. (6) December 2002, Environmental Site Assessment Report (Phase 1) for Parcels 5, 8, 10, and 14 at Fort Wingate Depot Activity, prepared by Tetra Tech, prepared for the Bureau of Land Management.
<del>AOC-130</del>	Multi.	Central Drainage Area	Based on 1992 sampling (see 1997 RI/FS), sediment, surface water, and ground water contained elevated levels of metals and nitrate above background. They did not sample the sediment or surface water for PCBs, but did sample the ground water for PCBs. According to the 1999 Scope of Work for Debris Removal In or	<u>Contamination in watersheds will be addressed through investigation of contaminant migration from individual SWMUs or AOCs.</u>	(1) May 1961, Facilities Data, p. 27. (2) March 1990, Enhanced Preliminary Assessment, p. 62, 63, 71. (3) July 1995, Archive Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental

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			<p>Near Watercourses, military debris and construction debris was removed from watercourses in the central portion of FWDA. FWDA should submit a final report with maps that identifies what was done, exactly what was removed and where. They should identify locations where OE, OE scrap, etc. were removed.</p> <p>The storm water drainage system is described in the 1961 Facilities Data (p. 27).</p>		<p>Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p. 4-65, 4-66). (4) November 1997, RI/FS, p. 7-125 through 7-130. (5) July 9, 1999, Scope of Work for Debris Removal In or Near Watercourses, FWDA. (6) December 2002, Environmental Site Assessment Report (Phase 1) for Parcels 5, 8, 10, and 14 at Fort Wingate Depot Activity, prepared by Tetra Tech, prepared for the Bureau of Land Management.</p>
<del>AOC131</del>	Multi.	Western Drainage Area	<p>Based on 1992 sediment sampling (see 1997 RI/FS), nine metals were detected above background and arsenic and iron were detected above screening levels. They did not sample</p>	<p><u>Contamination in watersheds will be addressed through investigation of contaminant migration from individual SWMUs or AOCs.</u></p>	<p>(1) May 1961, Facilities Data, p. 27. (2) March 1990, Enhanced Preliminary Assessment, p. 62, 63, 71. (3) July 1995, Archive</p>

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			<p>the sediment for PCBs. According to the 1999 Scope of Work for Debris Removal In or Near Watercourses, military debris and construction debris was removed from watercourses in the Western portion of FWDA. FWDA should submit a final report with maps that identifies what was done, exactly what was removed, and where. They should identify locations where OE, OE scrap, etc. were removed.</p> <p>The storm water drainage system is described in the 1961 Facilities Data (p. 27).</p>		<p>Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p. 4-65, 4-66, 4-67.</p> <p>(4) November 1997, RI/FS, p. 7-130 through 7-132.</p> <p>(5) July 9, 1999, Scope of Work for Debris Removal In or Near Watercourses, FWDA.</p> <p>(6) December 2002, Environmental Site Assessment Report (Phase 1) for Parcels 5, 8, 10, and 14 at Fort Wingate Depot Activity, prepared by Tetra Tech, prepared for the Bureau of Land Management.</p>
<del>AOC-132</del>	10, 12,	South Fork of Puerco	According to the 1997	<del>Contamination in</del>	(1) March 1990,

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	14	River	<p>RI/FS, metals, nitrate/nitrite, and phosphorus were detected above background levels and screening levels in sediment and surface water samples. Pesticides were detected in one surface water sample.</p> <p>According to the 1999 Scope of Work for Debris Removal In or Near Watercourses, military debris and construction debris was removed from the Puerco River. FWDA should submit a final report with maps that identifies what was done, exactly what was removed, and where. They should identify locations where OE, OE scrap, etc. were removed.</p>	<p><u>watersheds will be addressed through investigation of contaminant migration from individual SWMUs or AOCs.</u></p>	<p>Enhanced Preliminary Assessment, p. 62, 63, 71.</p> <p>(2) July 1995, Archive Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, p. 4-65, 4-66, 4-67).</p> <p>(3) November 1997, RI/FS, p. 7-133 through 7-138.</p> <p>(4) July 9, 1999, Scope of Work for Debris Removal In or Near Watercourses, FWDA.</p> <p>(5) December 2002, Environmental Site Assessment Report (Phase 1) for Parcels 5, 8, 10, and 14 at Fort Wingate Depot Activity, prepared by</p>

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					Tetra Tech, prepared for the Bureau of Land Management.
<del>133</del> SWMU AOC <del>13375</del>	6, 7, 11, 12, 13, 19, 21, 22, and may include Parcels 4, 14, and other parcels	Electrical Transformers (at least 65 former or existing transformers)	<p>Transformers are known to have historically contained PCBs. NMED requires that releases of PCBs (a listed waste) to the environment be investigated and remediated, if necessary.</p> <p>This includes 65 former or existing transformers identified in September 12-15, 1990, Transformer Inventory (described in July 1995 Archive Search Report). Additional former or existing transformers may be identified on July 1982 General Electric Map, Work Shop Area. According to October 4, 2000 site visit, there is an electrical transformer pad by a telephone pole (pole number F23-3) the on hillside north of Deactivation Furnace (Blg.</p>	<u>All locations where a transformer is present at the facility are included in this AOC and will be addressed under one work plan. There is insufficient evidence in the Administrative Record for this unit to be considered a SWMU.</u>	<p>(1) 1961 Facilities Data (p. 21-23).</p> <p>(2) July 1982, General Electric Map, Work Shop Area (Sheet 28 of 32) (Drawing No. 18-02-04) and Administration Area (Sheet 19 of 32) (Drawing No. 18-02-04), Master Plan Basic Information Maps (see January 15, 2001, letter transmitting maps).</p> <p>(3) July 1995, Archive Search Report, Appendix D-3 (November 1992, Technical Plan, Final Environmental Investigation for Fort Wingate Depot Activity, Gallup, New Mexico, Metcalf and Eddy, in p. 4-68 through 4-75. Archive</p>

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			530). NMED believes that the Archive Search Report did not identify all former transformers because additional transformers can be found on other maps (e.g., July 1982 General Electric Map, Work Shop Area). Also, NMED observed an electrical transformer pad by a telephone pole (pole number F23-3) on the hillside north of Deactivation Furnace (Blg. 530) during an October 4, 2000 site visit. The FWDA electrical system is described in the 1961 Facilities Data (p. 21-23).		Search Report includes excerpted information from a September 12-15, 1990, Transformer Inventory conducted by Tooele. NMED does not have a copy of the 1990 Transformer Inventory. (4) 1997 RI/FS, p. 7-138 to 7-140; p. 10-5 through 10-7.
AOC <del>13476</del>	2	Feature 19 on the 1973 aerial photo (API-5) in the 1995 Archive Search Report.	Feature 19 is described by API-5 as a rectangular scar with long shallow berm next to it, blackened as if burned. According to 1995 Archive Search Report (Appendix E-2), the site appeared to have been	<u>No change.</u>	(1) July 1995, Archive Search Report, Appendix E-2 (Site Visit No. 1, April 24 and 25, 1995), 1973 aerial photo (API-5).

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			graded and a packing container lid from a 37mm gun cartridge was found. Feature 19 is located adjacent to and north of Parcel 3, along and north of West Patrol Road, and west of intersection of Demil Road.		
<del>AOC 13577</del>	2	Feature 20 on the 1973 aerial photo (API-5) in the 1995 Archive Search Report.	Feature 20 is described by API-5 as a large cleared area, with roads into and through the area, scarred features and possible fill at north end, two pit scars at south end, and possible disposal area. Feature 20 is located west of Igloo Block H, appears to be located adjacent to the Western Rifle Range (SWMU 19), and may include former Fluorspar Storage Area (AOC 44).	<u>No change.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5).
<del>AOC 136</del>	2	Feature 37 on 1973 aerial photo (API-5) in 1995 Archive Search Report.	Feature 37 is described by API-5 as a small pond, dammed downstream. Feature 37 is located southwest of Igloo Block J	<u>There is insufficient evidence in the Administrative Record for this unit to be considered an AOC.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5).

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			and east of Parcel 3.		
<del>AOC-137</del>	2	Feature 38 on 1973 aerial photo (API-5) in 1995 Archive Search Report	Feature 38 is described by API-5 as a large excavation, weathered, probably soil borrow area. Feature 38 is located east of Igloo Block J and southeast of Functional Test Range 1 (SWMU 40).	<u>There is insufficient evidence in the Administrative Record for this unit to be considered an AOC.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5).
AOC <del>13878</del>	5	Feature 18 on 1973 aerial photo (API-5) in 1995 Archive Search Report	Feature 18 is described by API-5 as four rectangular scars, three northern ones with remnants of low berm around area. Feature 18 appears to contain former structures or buildings and contains miscellaneous debris on the ground surface and yellow chunk material per site visit dated March 6, 2001. Feature 18 is located southwest of Igloo Block B and adjacent to and east of West Patrol Road.	<u>No change.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5). (2) March 6, 2001, Site Visit, FWDA Field Log Book, Vol. 2, Julie Wanslow, p. 83.
AOC <del>13979</del>	6	Feature 2 on 1973 aerial photo (API-5) in 1995 Archive Search Report	Feature 2 is described by API-5 as a large pit scar. Feature 2 contains	<u>No change.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5).

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			miscellaneous debris on the ground surface and yellow chunk material per site visit dated March 6, 2001. Feature 2 is located east of Igloo Block A and adjacent to and west of the arroyo.		(2) March 6, 2001, Site Visit, FWDA Field Log Book, Vol. 2, Julie Wanslow, p. 82.
<del>AOC 14080</del>	6	Feature 9 on 1962 aerial photo (API-3) in 1995 Archive Search Report	Feature 9 is described by API-3 as a rough scarred ground. This area contains miscellaneous debris per site visit dated March 6, 2001. Feature 9 is located south of Igloo Block A and west of Road A5A.	<u>No change.</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3). (2) March 6, 2001, Site Visit, FWDA Field Log Book, Vol. 2, Julie Wanslow, p. 82.
<del>AOC 14181</del>	6	Feature 11 on 1962 aerial photo (API-3) in 1995 Archive Search Report	Feature 11 is described by API-3 as a rectangular scar, building foundation, blackened as if by fire. Feature 11 appears to be a former building per site visit dated March 6, 2001. Feature 11 is located east of Igloo Block A on Road O-13.	<u>No change.</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3). (2) March 6, 2001, Site Visit, FWDA Field Log Book, Vol. 2, Julie Wanslow, p. 82.
<del>AOC 142</del>	6	Feature 17 on 1973 aerial photo (API-5) in 1995 Archive Search Report	Feature 17 is described by API-5 as a small pond, dammed on north end. Feature 17 is located	<u>There is insufficient evidence in the Administrative Record for this unit to be</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5).

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			southwest of Igloo Block B and east of West Patrol Road.	<u>considered an AOC.</u>	
AOC <del>14382</del>	6 and 5	Feature 18 on 1973 aerial photo (API-5) in 1995 Archive Search Report	Feature 18 is described by API-5 as four rectangular scars, three northern ones each with remnants of low berm around area. This area contains miscellaneous debris (roofing shingles, metal debris, round roofing metal disks, metal banding, wooden posts and boards) and yellow chunk material, and has a drainage swale, swampy area, and has an arroyo about 30 feet east of site per site visit dated March 6, 2001. Feature 18 is located southwest of Igloo Block B and east of West Patrol Road.	<u>No change.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5). (2) March 6, 2001, Site Visit, FWDA Field Log Book, Vol. 2, Julie Wanslow, p. 83.
AOC <del>14483</del>	6	Feature 22 on 1973 aerial photo (API-5) in 1995 Archive Search Report	Feature 22 is described by API-5 as a disturbed area with trench. Feature 22 appears to be former building and contains miscellaneous debris per site visit dated March 6,	<u>No change.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5) .

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			2001. Feature 22 is located northeast of Igloo Block B, west of Road B-6, south of and near intersection of Arterial Road No. 1, and east of Feature 12 (AOC 146).		
<del>AOC 145</del>	6	Feature 4 on 1962 aerial photo (API-3) in 1995 Archive Search Report	Feature 4 is described by API-3 as a rectangular pit scar. Feature 4 is located east of Igloo Block A, south of Western Landfill (SWMU 22), and along and east of arroyo that is east of Igloo Block A.	<u>Combined with SWMU 20 (Western Landfill).</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3).
<del>AOC 14684</del>	6	Feature 12 on 1962 aerial photo (API-3) in 1995 Archive Search Report	Feature 12 is described by API-3 as rough, scarred ground with pits, weathered low berm around it. Feature 12 is located northeast of Igloo Block B, west of Road B-6, south of Arterial Road No. 1, and west of Feature 22 (AOC 144).	<u>No change.</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3).
<del>AOC 147</del>	7	Feature 1 on 1962 aerial photo (API-3) in 1995 Archive Search Report	Feature 1 is described by API-3 as a shallow rectangular excavation, striated with prominent	<u>Combined with SWMU 25 (Trash Burning Ground Property Disposal Office).</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3).

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			wide trench and ridges at south side. Feature 1 is located northwest of the Administration Area, west of the Sewage Treatment Plant (SWMU 11), and north of the Western Landfill (SWMU 22).		
<del>AOC 148</del>	7	Feature 2 on 1962 aerial photo (API-3) in 1995 Archive Search Report	Feature 2 is described by API-3 as a narrow trench scar. Feature 2 is located northwest of the Administration Area, west of the Sewage Treatment Plant (SWMU 11), north of the Western Landfill (SWMU 22), and southwest of Feature 1 (AOC 147).	<u>Combined with SWMU 25 (Trash Burning Ground Property Disposal Office).</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3).
<del>AOC 149</del>	7	Feature 3 on 1962 aerial photo (API-3) in 1995 Archive Search Report	Feature 3 is described by API-3 as rough, scarred ground with two low structures, and one small pond. Feature 3 is located west of the Administration Area, southwest of the Sewage Treatment Plant (SWMU 11), and may be within the Western Landfill (SWMU 22).	<u>Combined with SWMU 20 (Western Landfill).</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3).

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			ARMY MUST SUPPLY DOCUMENTATION THAT AOC 149 IS WITHIN SWMU 27.		
<del>AOC 150</del>	7	Feature 5 on 1962 aerial photo (API-3) in 1995 Archive Search Report	Feature 5 is described by API-3 as a rectangular scar, depression with water in it at south side. Feature 5 is located northwest of the Administration Area, west of the Sewage Treatment Plant (SWMU 11), north of the Western Landfill (SWMU 22)., and northwest of Feature 1 (AOC 147)..	<u>Combined with SWMU 25 (Trash Burning Ground Property Disposal Office).</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3).
<del>AOC 151</del>	7	Feature 6 on 1962 aerial photo (API-3) in 1995 Archive Search Report	Feature 6 is described by API-3 as an oval pit with water in it. Feature 6 is located northwest of the Administration Area, west of the Sewage Treatment Plant (SWMU 11), north of Western Landfill (SWMU 22), and north of Feature 1 (AOC 147).	<u>There is insufficient evidence in the Administrative Record for this unit to be considered an AOC.</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3).
AOC <del>15285</del>	9	Feature 11-1 on 1962 aerial photo (API-3) in 1995 Archive Search	Feature 11-1 is described by API-3 as a rectangular scar, shallow pit at east end	<u>No change.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5).

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		Report and Feature 1 on 1973 aerial photo (API-5) in 1995 Archive Search Report.	and weathered. Feature 1 is described by API-5 as two scarred areas, each with cleared areas around perimeter. Feature 11-1 on 1962 photo (API-3) may be collocated or in close proximity with Feature 1 on 1973 photo (API-5). Feature 11-1 and Feature 1 are located northeast of Igloo Block A and south of the North Patrol Road.		
<del>AOC-153</del>	10	Feature 13 on 1962 aerial photo (API-3) in 1995 Archive Search Report	Feature 13 is described by API-3 as a small circular pond with low berm around it. Feature 13 is located northwest of current Administration Area, northeast of Former Administration Area and Airport (AOC 62), near railroad next to interstate, south of Feature 14 (AOC 154), and near well Wingate 89 (which had a detection of RDX).	<u>There is insufficient evidence in the Administrative Record for this unit to be considered an AOC.</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3).
<del>AOC-154</del>	10	Feature 14 on 1962 aerial photo (API-3) in	Feature 14 is described by API-3 as a constructed	<u>There is insufficient evidence in the</u>	(1) July 1995, Archive Search Report, 1962

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		1995 Archive Search Report	pond with a low berm around it. Feature 14 is located northwest of current Administration Area, northeast of Former Administration Area and Airport (AOC 62), near railroad next to interstate, north of Feature 13 (AOC 153), and is near well Wingate 89 (which had a detection of RDX).	<u>Administrative Record for this unit to be considered an AOC.</u>	aerial photo (API-3).
<del>AOC 155</del>	13	Feature 8 on 1973 aerial photo (API-5) in 1995 Archive Search Report	Feature 8 is described by API-5 as a small U-shaped revetment. Feature 8 is located east of the TNT Workshop Area, east of Structure 506 (AOC 94), west of Lake Knudson, and south of Feature 13 (AOC 156). Potential firing site.	<u>Duplicate of AOC 56 (Structure 533, explosive barricade).</u>	(1) September 1986, Site Map 18-02-04, Sheet 24 of 32. (2) July 1995, Archive Search Report, 1973 aerial photo (API-5).
<del>AOC 156</del>	13	Feature 13 on 1973 aerial photo (API-5) in 1995 Archive Search Report	Feature 13 is described by API-5 as a pond, dammed downstream but with break in dam, dry. Feature 13 is located northeast of the TNT Workshop Area, northwest of Lake Knudson, and north of	<u>There is insufficient evidence in the Administrative Record for this unit to be considered an AOC.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5).

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			Feature 8 (AOC 155).		
<del>AOC 157</del> <u>15786</u>	13	Feature 15 on 1973 aerial photo (API-5) in 1995 Archive Search Report.	Feature 15 is described by API-5 as a pit scar with a broken berm around it, possible burn area. Feature 15 is located east of Administration Area, north of TNT Workshop Area, near intersection of Arterial Road No. 6 and North Patrol Road. Open storage site for inert materials.	<u>No change.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5).
<del>AOC 158</del>	13	Feature 20 on 1962 aerial photograph (API-3) in 1995 Archive Search Report.	Feature 20 is described by API-3 as a graded area on top of a ridge. Feature 20 is located east of Administration Area and northwest of Lake Knudson. .	<u>There is insufficient evidence in the Administrative Record for this unit to be considered an AOC.</u>	(1) July 1995, Archive Search Report, 1962 aerial photograph (API-3).
<del>AOC 159</del> <u>15987</u>	21	Feature 18 on 1962 aerial photo (API-3) and Feature 23 on 1973 aerial photo (API-5) in 1995 Archive Search Report.	Feature 23 on API-5 is larger than and appears to include Feature 18 on API-3. Feature 18 is described by API-3 as a graded area, rough with a shallow pit at northeast quadrant. Feature 23 is described by API-5 as a rough and scarred area, scarring may be from	<u>No change.</u>	(1) July 1995, Archive Search Report, 1962 aerial photo (API-3) and 1973 aerial photo (API-5).

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			leaching. Feature 18 and Feature 23 are located in the TNT Workshop Area, south of Service Road No. 2, and south of SWMU 2 (Blg. 515, Painting and Acid Washout Building and Acid Holding Pond).		
AOC <del>16088</del>	22	Former buildings or structures and disposal areas southwest, south, and southeast of Blg. 528.	During a site visit, one demilled land mine, an old ammunition box plate, burned and charred asphalt roofing shingles, roofing discs with nails, charred wood, and black felt roofing material was found at the large former building or structure. According to the March 6, 2001 Site Visit, a rectangular concrete foundation reinforced with rebar and anchor bolts was found southeast of Blg. 528. This concrete foundation appears identical with the former rectangular structure near TMW-5. See the 1952 aerial photo on BLM CD	<u>No change.</u>	(1) March 2000, Phase I, Environmental Site Assessment, Final Report, FWDA Parcels 6 and 22, P. 2-14. (2) BLM, 1952 aerial photo on CD (52_6-193).

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			(52_6-193), BLM Environmental Site Assessment.		
AOC <del>16189</del>	3	Feature 30 and Feature 34 on 1973 aerial photo (API-5) in 1995 Archive Search Report	USACE identified this site. Feature 30 is described by API-5 as three U-shaped and one L-shaped revetments. Feature 34 is described by API-5 as a rectangular cleared area with shallow trenches along two sides. One of the three U-shaped revetments in Feature 30 is located adjacent to Feature 34. Features 30 and 34 are located in the northern portion of Parcel 3 along Demil Road.	<u>No change.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5).
AOC <del>16290</del>	3	Feature 36 on 1973 aerial photo (API-5) in 1995 Archive Search Report	USACE identified this site. Feature 36 is described by API-5 as two ponds, dammed downstream. Feature 36 is located in Parcel 3, west of the Hogback and near the western property boundary in Closed OB/OD Area. One pond appears to be	<u>No change.</u>	(1) July 1995, Archive Search Report, 1973 aerial photo (API-5).

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			outside the FWDA western property boundary.		
<del>AOC</del> <del>16391</del>	3	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.	Feature 41 is described by API-5 as disturbed area, within firebreak, east and south of known demolition area, and which was not seen on 1962 aerial photo. Feature 27 is described by API-7 as a disturbed area, many roads and paths. Feature 41 appears to be a larger area that includes Feature 27. Features 41 and 27 are located in Parcel 3, east of the Hogback, and south of the OB/OD Unit.	<u>No change.</u>	(1) July 1995 Archive Search Report, 1973 aerial photo (API-5) and 1978 aerial photo (API-7).
<del>SWMU</del> <del>164</del> <del>AOC</del> <del>16492</del>	3	Feature 31 on the 1973 historic aerial photo (API-5) and Feature 21 on the 1978 aerial photo (API-7) in 1995 Archive Search Report	USACE identified this site. Feature 31 is described by API-5 as bare areas on hillside with a loop road around area, two trenches, three small pits, and three pit scars. Feature 21 is described by API-7 as bare, rough ground on side of hill with loop road and two pits. Feature 31 on API-5 appears to be the same as	<u>There is insufficient evidence in the Administrative Record for this unit to be considered a SWMU.</u>	(1) July 1995 Archive Search Report, 1973 aerial photo (API-5) and 1978 aerial photo (API-7).

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			Feature 21 on API-7. Features 31 and 21 are located in Parcel 3, east of the Hogback, adjacent to and northeast of the OB/OD Unit.		
AOC <del>16593</del>	Un- known	Bivouac and Tank Training Area	According to the 1990 Enhanced PA, approximately 600 acres were leased by New Mexico Army National Guard and used for bivouac and tank maneuver training, which occurred one weekend per month. According to the 1990 Enhanced PA, p.13, some firing of weapons took place during this activity and the "1980 lease is up for renewal and may not be renewed". According to the 1990 Enhanced PA, the U.S. Army Reserve Engineers also periodically trains personnel on the installation in the use of construction equipment and techniques.	<u>No change.</u>	(1) January 1980, Report No. 136 Installation Assessment. (2) March 1990 Enhanced Preliminary Assessment, p. 13, 59.

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<del>AOC 166</del>	Unknow n	Two Igloos in Magazine Area used by the Atomic Energy Commission during the 1940s and/or 1960s	According to the 1990 Enhanced Preliminary Assessment, two igloos reportedly used by the Atomic Energy Commission (AEC) in the 1940s were surveyed for radioactivity in 1989, with negative results. According to the 1999 Industrial and Environmental Radiation Historical Site Assessment: "The Atomic Energy Act Commission had an operation at FWDA in the 1960s and utilized Bldg. 14 and two fenced-in and guarded igloos in Igloo Block C. Various documents prepared in the 1960s described the AEC function as 'supplementary headquarters' or 'alternate headquarters and storage facilities'. The mission was not related to FWDA. Later surveys of the igloos showed no levels of radioactivity above	<del>There is insufficient evidence in the Administrative Record for this unit to be considered an AOC.</del>	(1) September 1986, General Site Map, Master Plan, Basic Information Maps, Sheet 5 of 32 (Drawing No. 18-02-04). (2) March 1990, Enhanced Preliminary Assessment, p. 55. (3) July 1995, Archive Search Report, p.7-7.

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			background." The location of the two igloos in Block C were not identified in the 1990 Enhanced Preliminary Assessment nor the 1999 Industrial and Environmental Radiation Historical Site Assessment; however, according to Sept. 1986 General Site Map (Sheet 5 of 32), there are two, fenced-in igloos in Igloo Block C: C-1103 and C-1104.		
<del>AOC 167</del>	Not Known	Munitions test sites used by Los Alamos National Laboratory during the 1980s		<u>There is insufficient evidence in the Administrative Record for this unit to be considered an AOC.</u>	