

Final Report
for
Demolishing Craters at the OB/OD Unit
at
Fort Wingate Depot Activity (FWDA), New Mexico
Contract #DACA63-99-P-0960

Prepared for
U.S. Army Corps of Engineers
Fort Worth, Texas

Prepared by
Safe Environment, Inc.
Manassas, VA

Date - November 1994



Safe Environment, Inc.

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1.0 Introduction

1.1 General

Safe Environment, Inc. (SEI), Manassas, Virginia, was tasked with providing all services, materials, supplies, labor and equipment necessary for demolishing 11 of the 12 detonation craters at the Open Burning/Open Detonation (OB/OD) Unit at Fort Wingate Depot Activity (FWDA), New Mexico, in accordance with the *Detailed Statement of Work (SOW)*. See Attachment 1 for the SOW.

1.2 Location

FWDA occupies approximately 34 square miles (22,120 acres) of land in northwestern New Mexico. The installation, located in McKinley County, is approximately eight miles east of Gallup and 130 miles west of Albuquerque on Highway 66. The main entrance road to the installation can be reached from exit 33 on I-40, where I-40 intersects US Route 66 eight miles east of Gallup. FWDA is bordered on the west by the Zuni Indian Reservation, on the south and east by the Cibola National Forest, and on the north by the Red Rock State Park.

1.3 SEI's Project Objectives

SEI's task was to demolish 11 of the 12 detonation craters at the OB/OD Unit located at FWDA, in accordance with the *Detailed Statement of Work*. See Attachment 1 for the SOW.

2.0 Schedule

The project started on October 18, 1999. The field project was completed on November 4, 1999.

3.0 Equipment

The equipment used during the demolition of the detonation craters was two pickup trucks, one bulldozer, and an ATV to drag in seeded grass and to haul straw bales and miscellaneous tools. Equipment and explosive materials for conducting Unexploded Ordnance (UXO) blow-in-place (BIP) operations were also on hand. Explosives were government furnished. See Attachment 2 for Magazine Data Cards.

4.0 Health and Safety

All personnel were given an in-depth safety briefing for each task being conducted, including information about the installation such as potential hazards, the hospital route, and site specific information. A UXO briefing was given daily and a BIP operation briefing was given before every disposal operation.

5.0 Personnel

One UXO Supervisor and two UXO Specialists were utilized to conduct all operations on site.

6.0 Procedures

The crater demolition field operations started on October 18, 1999, with the demolition of crater nine. The demolition of craters continued until all were removed except crater number one, which was left for future explosive demolition operations. Craters were filled in and leveled as much as possible, leaving them mounded so as to shed water. See project photographs at Attachment 5. All UXO items encountered while conducting crater demolition were blown in place. See Attachment 2. A list of explosives consumed during BIP operations are listed in Attachment 2. Upon completion of all crater demolition, the crater area was graded, leveled, and seeded with a native grass seed mixture, graded and leveled again to bury the seeds, and then mulched with straw. An added grass seed mixture was used to establish a root system that would be in place before springtime. See Attachment 3 for Seed Mixture. Straw bales were placed at the lower edge of each crater area to minimize run off toward the main arroyo running through the OB/OD area.

A government furnished GPS unit was used to locate each crater for mapping purposes prior to demolition operations. At the end of demolition operations the center of each crater area was again located with a government GPS unit using a different mode. See Attachment 4 for crater coordinates. All crater demolition operations were completed on November 4, 1999 and inspected by the on-site U.S. Army Corps of Engineers (USACE) representative and accepted as completed. Following is the signed site closeout inspection sheet. At the direction of the USACE, the remaining explosive inventory was turned over to the New Mexico State Police Bomb Squad Commander for use in their operations. Following is a receipt letter signed by a New Mexico State Police representative.

7.0 Project Photographs

Project photographs are shown in Attachment 5.

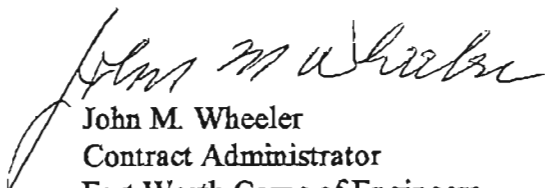
Contract #DACA63-99-P-0960
November 4, 1999,

Mr. John Wheeler, USACE and Robert Diekmann, SEI conducted a site closeout of this purchase order investigation of the work completed under this contract.



Robert L. Diekmann
Senior UXO Supervisor
Safe Environment, Inc.

Work conducted under this purchase order accepted as completed.



John M. Wheeler
Contract Administrator
Fort Worth Corps of Engineers