

# **Appendix I**

## **Description of Facilities**

Revision No.: 4

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Federal Facility Agreement  
and Consent Order  
(FFACO)



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## ***List of Acronyms and Abbreviations***

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AEC	U.S. Atomic Energy Commission
BLM	Bureau of Land Management
CNTA	Central Nevada Test Area
DoD	U.S. Department of Defense
DOE	U.S. Department of Energy
FFACO	<i>Federal Facility Agreement and Consent Order</i>
ft	Foot
NTS	Nevada Test Site
NTTR	Nevada Test and Training Range
MOU	Memorandum of Understanding
PSA	Project Shoal Area
TTR	Tonopah Test Range
USAF	U.S. Air Force
U.S.C.	<i>United States Code</i>

## **1.0 Description of Facility**

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The *Federal Facility Agreement and Consent Order* (FFACO) applies to land controlled, managed, owned, or leased by the U.S. Department of Energy (DOE) and/or the U.S. Department of Defense (DoD) in the state of Nevada. Specifically, the Agreement covers the Nevada Test Site (NTS), the Central Nevada Test Area (CNTA), the Project Shoal Area (PSA), and parts of the Nevada Test and Training Range (NTTR), including the Tonopah Test Range (TTR) (Figure 1-1).

### **1.1 Nevada Test Site**

The NTS is a DOE installation occupying approximately 1,375 square miles (880,000 acres) in southeastern Nye County, Nevada. The site is federally owned; access controlled; and withdrawn from settlement, sale, location, or entry. The withdrawal also excludes public mining and mineral leasing.

The area recognized as the NTS is composed of four separate land transfers from other federal agencies to the Atomic Energy Commission (AEC).

- Public Land Order 805, signed February 12, 1952, transferred approximately 437,020 acres of U.S. Air Force (USAF) land to the AEC for use as a weapons testing site.
- Public Land Order 3759, signed on May 26, 1952, withdrew approximately 21,108 acres of BLM-managed land to the AEC in support of the NTS.
- Public Land Order 2568, signed on December 19, 1961, transferred approximately 318,000 acres of the Nellis Air Force Range from the USAF to the AEC for use in connection with the NTS for test facilities, utilities, and safety distances.
- A Memorandum of Understanding (MOU) with the USAF, signed on November 1, 1963, granted the AEC the unconditional use and operational control of approximately 106,000 acres of USAF land in the Pahute Mesa area.

In addition, the *Military Lands Withdrawal Act* of 1999 (Public Law 106-65) requested that Pahute Mesa be transferred to the DOE and increase the size of the NTS from 1,350 square miles to approximately 1,375 square miles. For the purposes of the FFACO, the boundaries of the NTS will be defined as recorded in the Holmes and Narver, Inc., survey of April 16, 1986, except for the exclusion of Public Land Order of 1662 and the inclusion of the Pahute Mesa per the *Military Lands Withdrawal Act* of 1999 (Figure 1-2). Any activities undertaken by DOE or

successor agencies pursuant to the terms of the Nuclear Waste Policy Act, 42 *United States Code* (U.S.C.) Section 10101 et seq., as amended, or subsequent legislation of similar scope and purpose that may be enacted by Congress, are specially excluded from the Agreement and this Appendix.

The nuclear tests and associated support activities were conducted at the Nevada Test Site (NTS); parts of the Tonopah Test Range (TTR) and Nevada Test and Training Range (NTTR); and at the Project Shoal Area (PSA) and the Central Nevada Test Area (CNTA), located in northern and central Nevada, respectively. Agencies, herein referred to as parties, responsible for the activities described in this appendix are the U.S. Department of Energy (DOE), National Nuclear Security Administration, Nevada Site Office (NNSA/NSO); the U.S. Department of Defense (DoD); and the DOE/Office of Legacy Management (LM). These agencies will follow this strategy to accomplish corrective action investigations (CAIs) and corrective actions at the facilities specified in this Appendix, as overseen by the Nevada Division of Environmental Protection (NDEP). The DoD's responsibilities are limited to those areas at the NTS where DoD has conducted activities. The DOE/LM's responsibilities are limited to the Nevada Offsites, which are comprised of the CNTA and the PSA.

## **1.2 Tonopah Test Range**

Portions of the TTR, located in Nye County, and the activities thereon have been managed by the DOE and its predecessor agencies for the USAF since an initial MOU was signed in 1956. Approximately 370,000 acres were designated to support research related to the weapons development program (Figure 1-3). The DOE has responsibility for remediation efforts on the TTR for those sites resulting from past DOE activities. As described in an MOU dated April 1, 1969, the boundaries are as follows:

An area approximately 24 by 26 miles starting from a point on the northern boundary of the NTTR at approximately 37 53' N - 116 26' W, thence 26 miles west to approximately 37 53' N - 116 55' W, thence south to approximately 37 33' N - 116 55' W, thence 26 miles east to approximately 37 33' N - 116 26' W, thence 24 miles north to point of beginning.

## **1.3 Central Nevada Test Area**

The CNTA consists of three noncontiguous unmanned sites in Hot Creek Valley, approximately 80 miles east of Tonopah (Figure 1-4). A large-diameter borehole specifically designed for

nuclear testing was drilled at each site; one site was utilized. The unused boreholes are 120 inches in diameter and drilled to a depth of 5,500 feet (ft) with 56-inch diameter casing installed to 4,846 ft. There are also numerous small-diameter monitoring wells on the sites. The large-diameter wells and most of the small-diameter wells have been plugged and abandoned.

Public Land Order 4338, signed on December 6, 1967, withdrew a parcel of approximately 640 acres in Nye County for the AEC to conduct underground atomic energy experiments. The parcel is located as follows:

Mount Diablo Meridian

T. 9 N., R. 51 E. (unsurveyed)

Parcel: SW<sup>1</sup>/<sub>4</sub>, Sec. 14; SE<sup>1</sup>/<sub>4</sub>, Sec. 15; NE<sup>1</sup>/<sub>4</sub>, Sec. 22; and NW<sup>1</sup>/<sub>4</sub>, Sec. 23.

Public Land Order 4748, signed on December 2, 1969, withdrew approximately 1,920 acres in two parcels in Nye County for the AEC to conduct underground atomic energy experiments. They were located as follows:

Mount Diablo Meridian

Parcel 1: T. 9 N., R. 51 E. (unsurveyed). Beginning at a point, said point being S. 67E34'33" W., 11,046,966 ft from the southeast corner of T. 9 N., R. 51 E., W. 5,280 ft; N. 7,920 ft; E. 5,280 ft; and S. 7,920 ft, to the point of beginning.

Parcel 2: T. 9., R. 51 E., (unsurveyed), Sec. 2 NW<sup>1</sup>/<sub>4</sub>; Sec. 3, N<sup>1</sup>/<sub>2</sub>. T. 10 N., R. 51 E., Sec. 34, S<sup>1</sup>/<sub>2</sub>; Sec. 35, SW<sup>1</sup>/<sub>4</sub>.

#### **1.4 Project Shoal Area**

The PSA is located approximately 30 miles southeast of Fallon in the Sand Springs Mountains (Figure 1-5). Memorandum of Understanding AT (26-1) 255 (January 1, 1966) resulted in the site being under the joint use and control of the U.S. Navy and the DOE.

Public Land Order 2771, signed on September 6, 1962, withdrew approximately 2,560 acres in Churchill County for use by the AEC for experimental project purposes and allied safety areas (Figure 1-5). The site was located as follows:

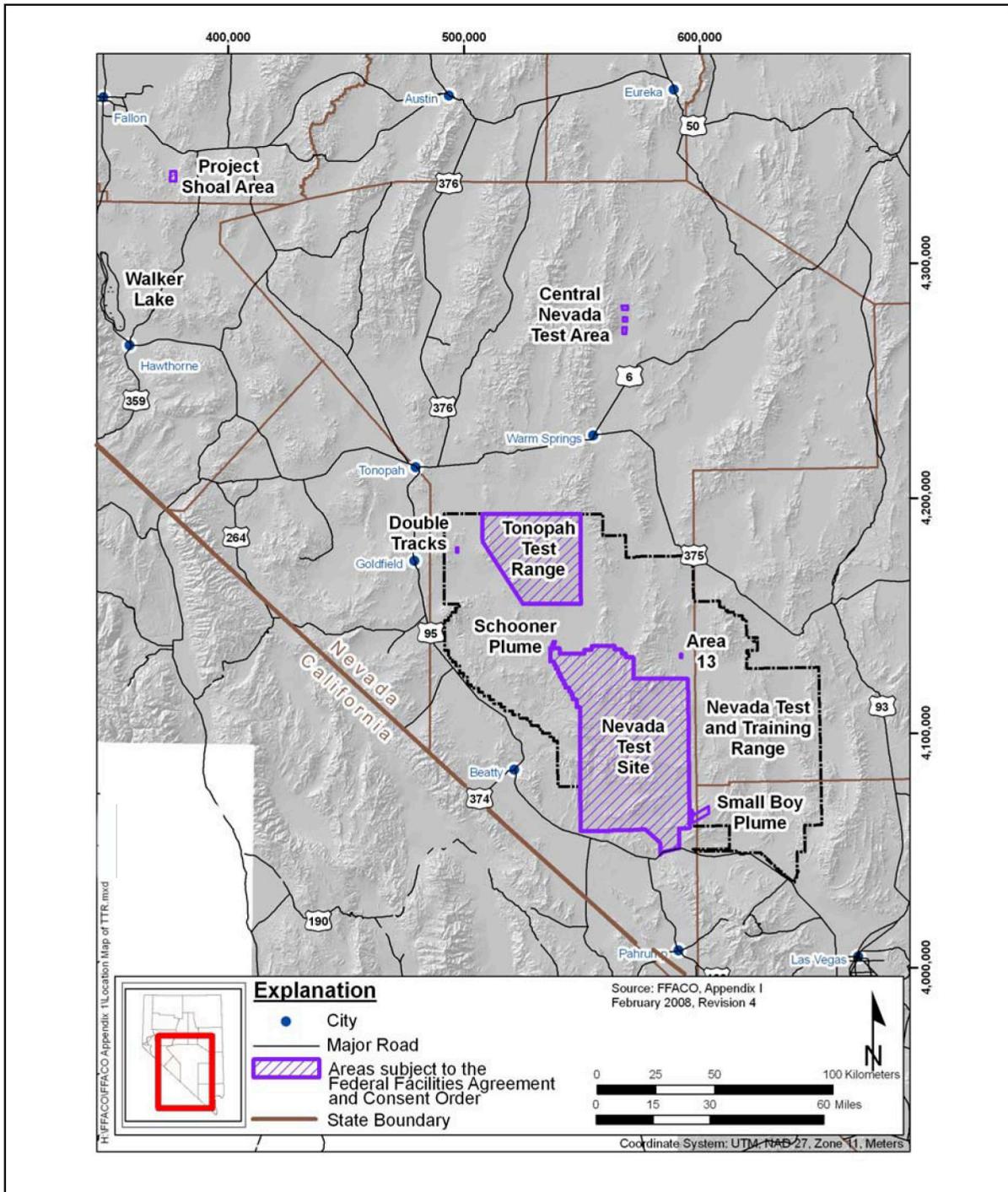
T. 16 N., R. 32 E., Secs. 33 and 34. T. 15 N., R. 32 E. (unsurveyed), Secs. 3 and 4.

Public Land Order 2834, signed December 4, 1962, amended Public Land Order 2771 to cover Secs. 33 and 34.

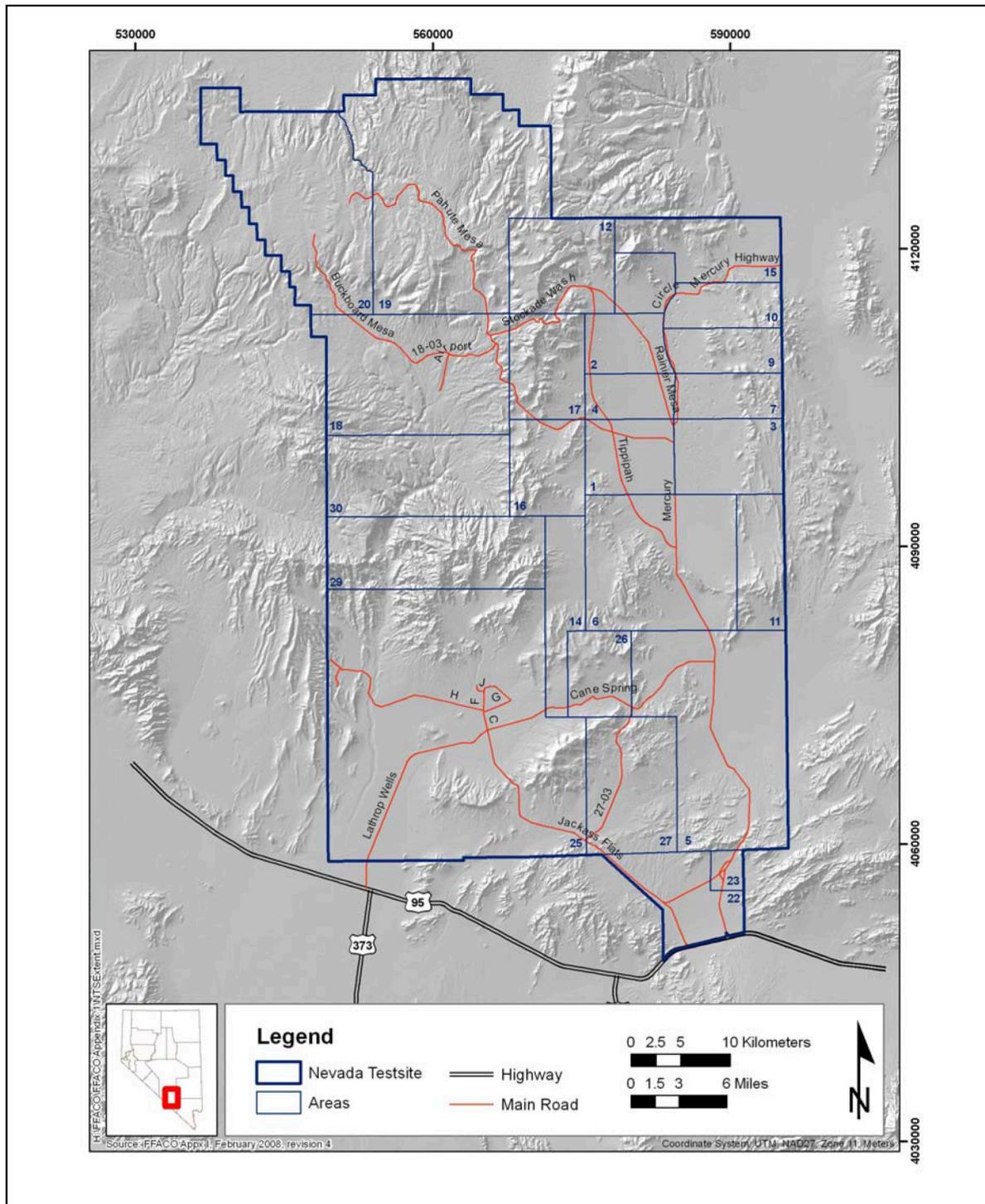
### **1.5 Nevada Test and Training Range**

Portions of the NTTR, located in Nye, Lincoln, and Clark Counties, were used by the DOE or the AEC for nuclear testing or related activities. Only those portions of the NTTR contaminated during these activities are subject to the terms of the FFACO. To date, four areas on the NTTR have been identified as the responsibility of the DOE. All ground zero coordinates are Nevada State Plane, Central Zone.

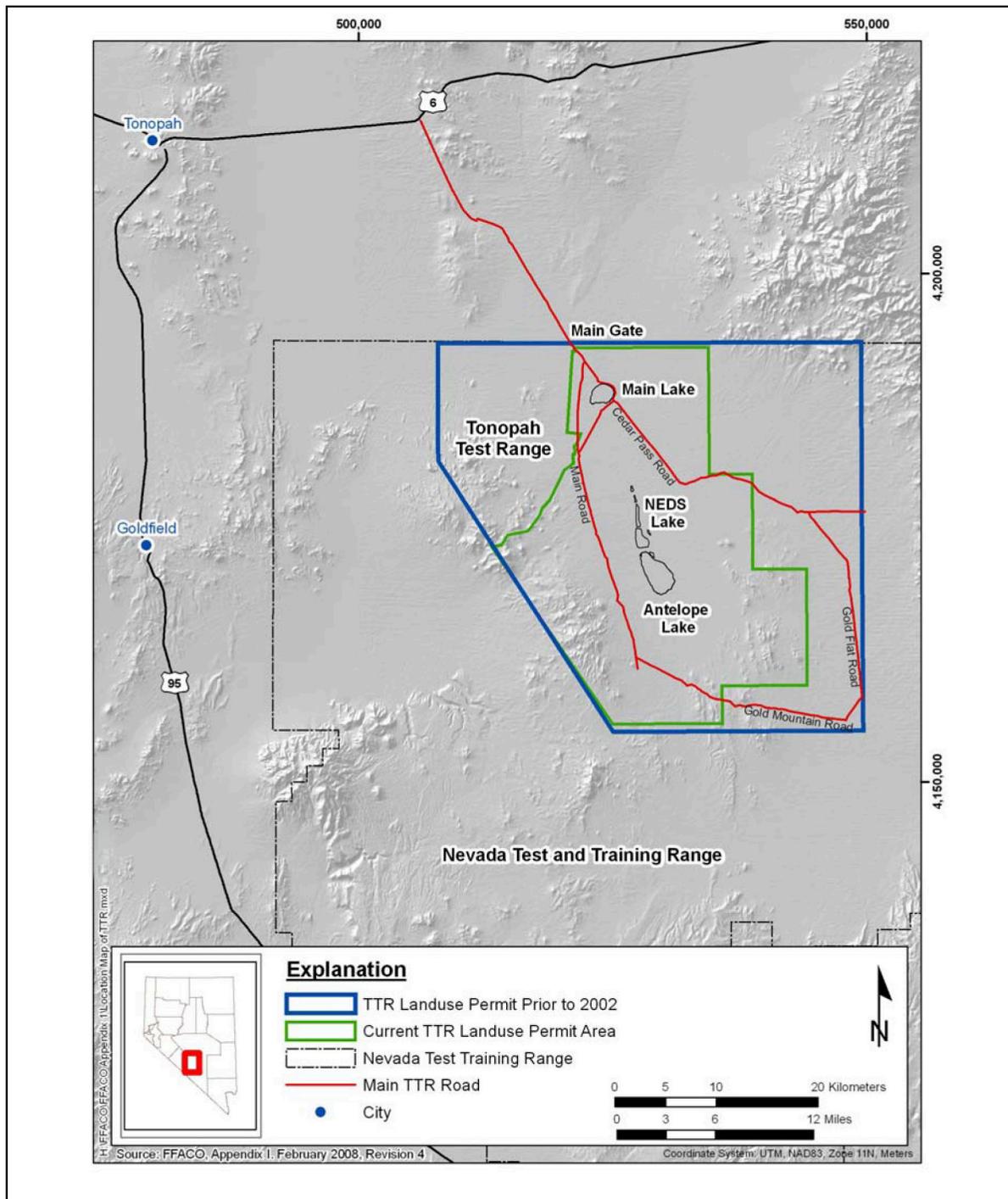
- Project 57 - A safety experiment (Project 57 No. 1) test was detonated on April 24, 1957. Preliminary surveys define the impacted area as displayed in [Figure 1-6](#).
- Small Boy - A weapons effects test was detonated on July 14, 1962. Preliminary surveys define the impacted area as displayed in [Figure 1-7](#).
- Double Tracks - A storage-transportation test was detonated on May 15, 1963. Preliminary surveys define the impacted area as displayed in [Figure 1-8](#).



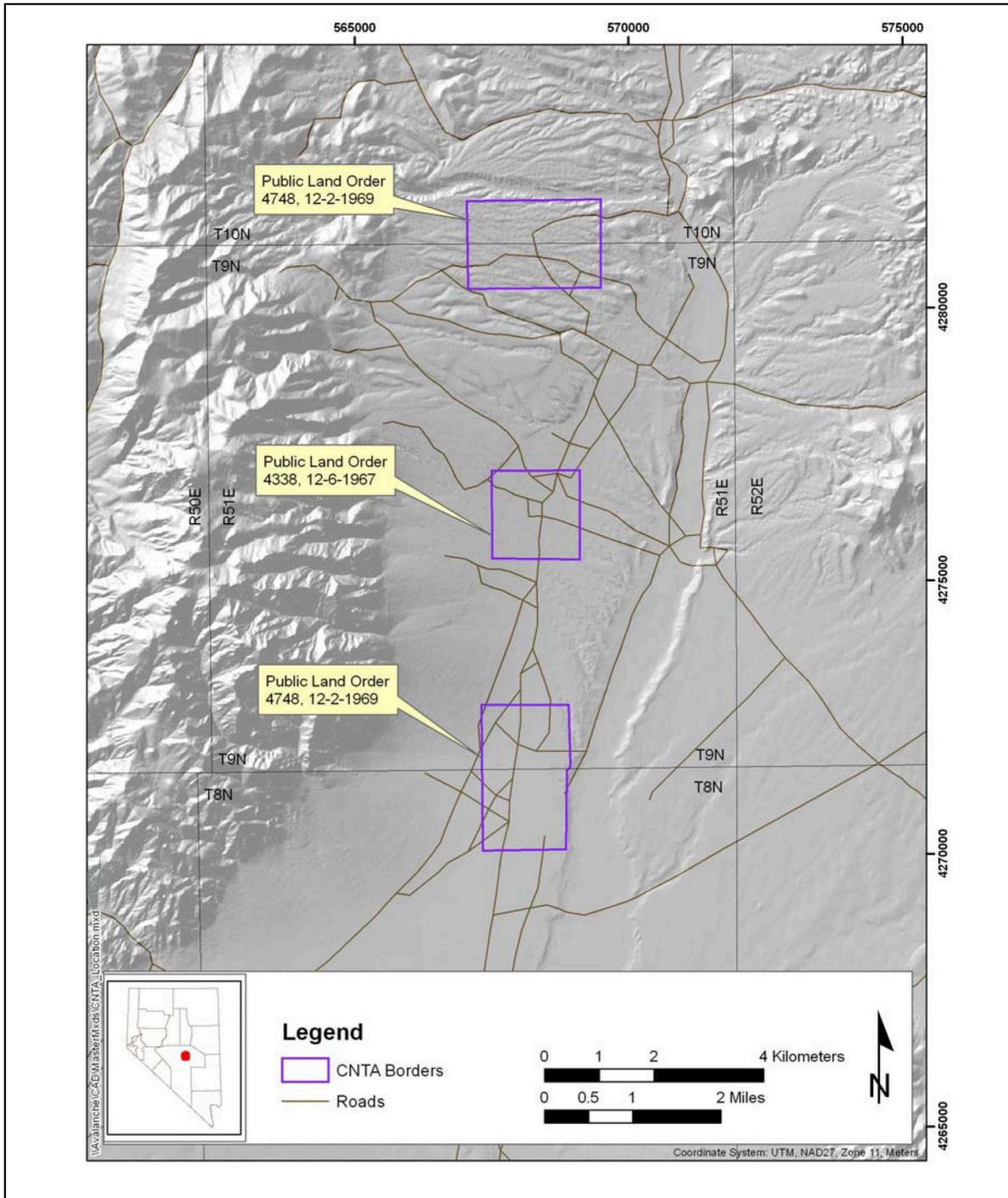
**Figure 1-1**  
**Areas Subject to the *Federal Facility Agreement and Consent Order***



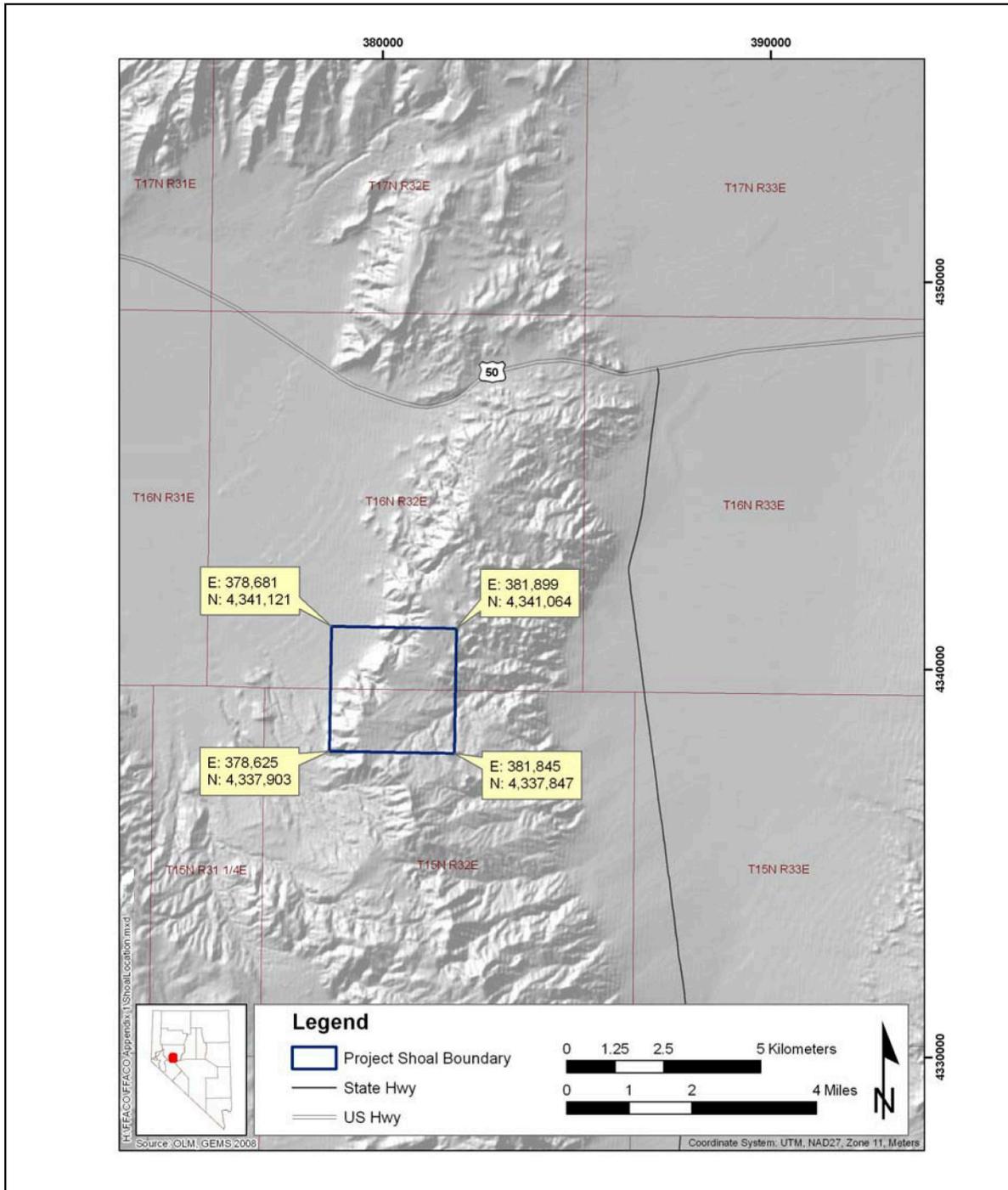
**Figure 1-2**  
**Nevada Test Site Boundary Coordinates**



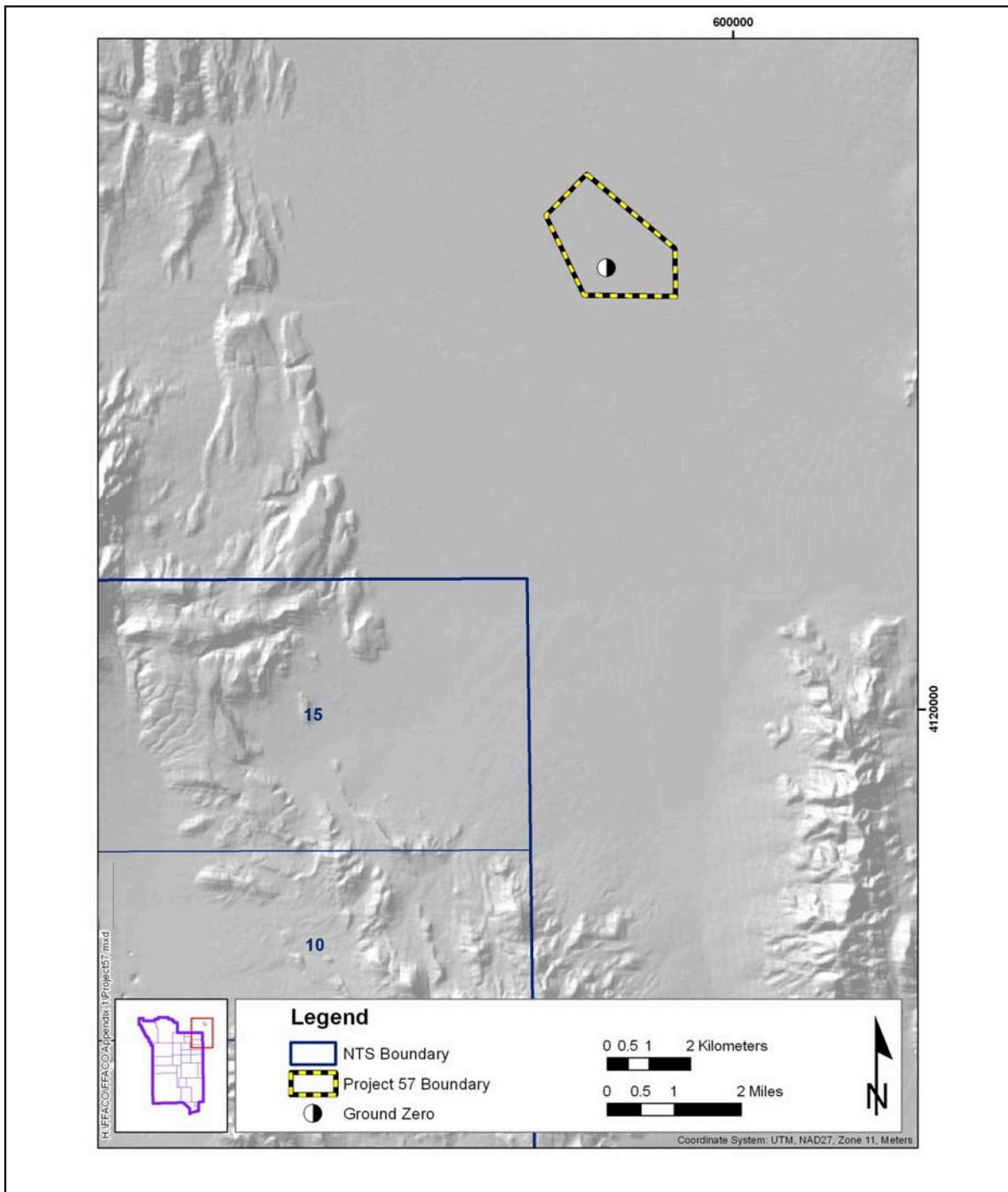
**Figure 1-3**  
**Location of Tonopah Test Range**



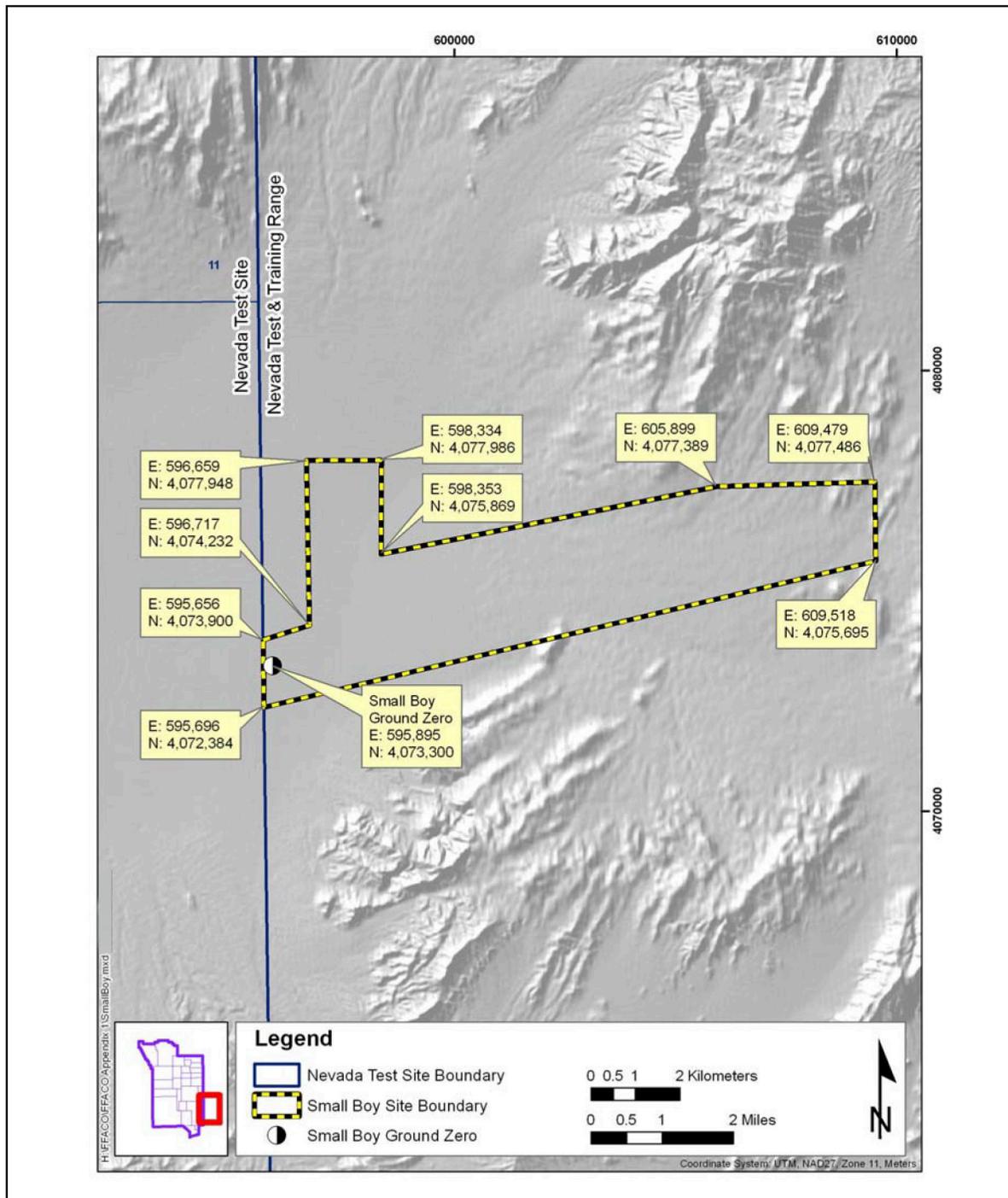
**Figure 1-4**  
**Location of Central Nevada Test Area**



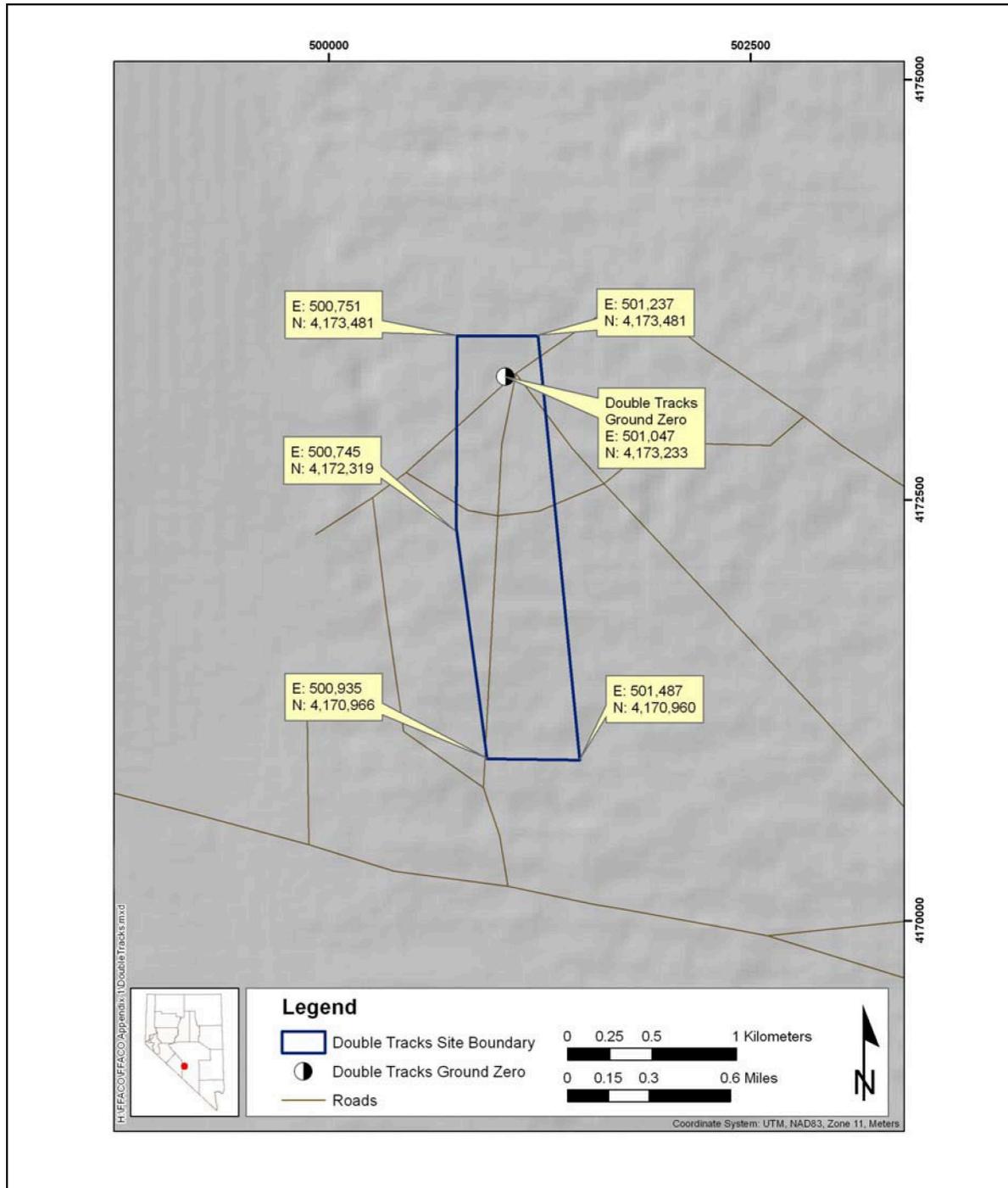
**Figure 1-5**  
**Location of Project Shoal Area**



**Figure 1-6**  
**Area Subject to the *Federal Facility Agreement***  
**and *Consent Order* in the Vicinity of Project 57**



**Figure 1-7**  
**Area Subject to the *Federal Facility Agreement and Consent Order* in the Vicinity of Small Boy**



**Figure 1-8**  
**Area Subject to the *Federal Facility Agreement***  
**and *Consent Order* in the Vicinity of Double Tracks**