

# North Slope Investigation Report

Prepared for the U.S. Department of Energy  
Assistant Secretary for Environment, Safety and Health



**Westinghouse**  
**Hanford Company** Richland, Washington

Hanford Operations and Engineering Contractor for the  
U.S. Department of Energy under Contract DE-AC06-87RL10930

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Richard C. Roos

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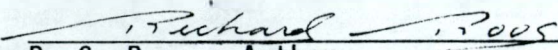
**NORTH SLOPE INVESTIGATION REPORT**

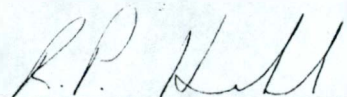
**Environmental Engineering Group  
Westinghouse Hanford Company**


**13 April, 1990**

## NORTH SLOPE INVESTIGATION REPORT

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ABSTRACT

*The Department of Energy owns approximately 190 square miles of land north and east of the Columbia River (referred to as the "North Slope"). This land has not been used for production activities associated with the Hanford Site. Physical evidence does remain of use associated with military activities in the defense of the Hanford Site. Before government control, the area had been homesteaded since the late 1800's.*

*The North Slope area was investigated between December 1989 and April 1990 to gather information on potential hazards that may exist. The investigation consisted of the following:*

- Review of historic records*
- Interviews with people knowledgeable of the area*
- Aerial search*
- Ground search*

*Potential hazards that have been identified include open cisterns, pits, and target areas for military ordnance practice. The cisterns and pits present a physical hazard to people traveling in the North Slope. These cisterns and pits are being fenced and posted to limit the potential hazard. The military practice areas pose a problem because of the possibility of non-exploded rounds or "duds" being located in the area. Target areas*



*have been investigated by the Department of the Army, 53rd Ordnance Detachment and the Seattle District Corps of Engineers (COE). The Department of the Army, 53rd Ordnance Detachment found no unexploded ordnance and the Corps of Engineers concurred in their finding and stated that nothing observed so could be regarded as a significant public hazard.*

*Other sites in the North Slope include military encampments, motorpools, and landfills associated with military and homestead sites. These sites did not appear to pose any immediate threat to public health and the environment. Initial reports of an ammunition dump on the North Slope were investigated, but no site was found.*

LIST OF TERMS

COE	Corps of Engineers
DDT	dichloro-diphenyl-trichlo-roethane
DOE	U.S. Department of Energy
DOE-RL	U.S. Department of Energy-Richland Operations Office
EOD	Explosive Ordnance Division
WIDS	Waste Information Data System
Westinghouse Hanford	Westinghouse Hanford Company



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## 1.0 INTRODUCTION

The U.S. Department of Energy (DOE) owns approximately 190 mi<sup>2</sup> of land north and east of the Columbia River [hereinafter referred to as the North Slope (Figure 1)]. This land has not been used for defense production activities associated with the Hanford Site. However, there is physical evidence of use before government control and from early Hanford Site military activities.

The history of the North Slope area includes homesteading from the late 1800's until government control of the area began in the early 1940's. After government acquisition of the land, the area was used for military defense of the Hanford Site. Defensive positions on the North Slope area originally consisted of seven antiaircraft gun positions. These were replaced in the 1950's with three NIKE missile positions. Since approximately 1960, there has been no permanent military installation at the Hanford Site. However, the area has been used for military training maneuvers.

The North Slope area remained unused and closed to public access until the mid-1970's. At that time, the area was permitted by U. S. Department of Energy-Richland Operations Office (DOE-RL) to the predecessors of the Washington State Department of Wildlife and the U.S. Fish and Wildlife Service (Figure 1). As a result of the use permit granted to the Washington State Department of Wildlife, much of the land has been open to public access as a recreation area during daylight hours. The remainder of the North Slope is permitted to the U.S. Fish and Wildlife Service, and there is limited public access. This area is used as a wildlife refuge.

Public access to the North Slope creates special concern because of the potential hazards that remain in the area. Concerns have been raised of possible hazards, including the following:

- Homestead structures, primarily exposed cisterns
- Structures and material remaining from military use of the area:
  - Disposal landfills
  - Open pits from building structures
  - Underground structures
  - Possible hazardous chemicals
  - Possible ordnance.

Before initiation of this investigation, two sites on the North Slope were formally documented in the Hanford Site Waste Information Data System [WIDS (DOE-RL 1989)]. These are the "Battery A" NIKE missile site (H-06C and H-06L, numbers 12 and 16, respectively, described in Section 5.1) and the U.S. Bureau of Reclamation 2,4-D burial site (Appendix A). These two sites are within the 100-IU-3 operable unit.

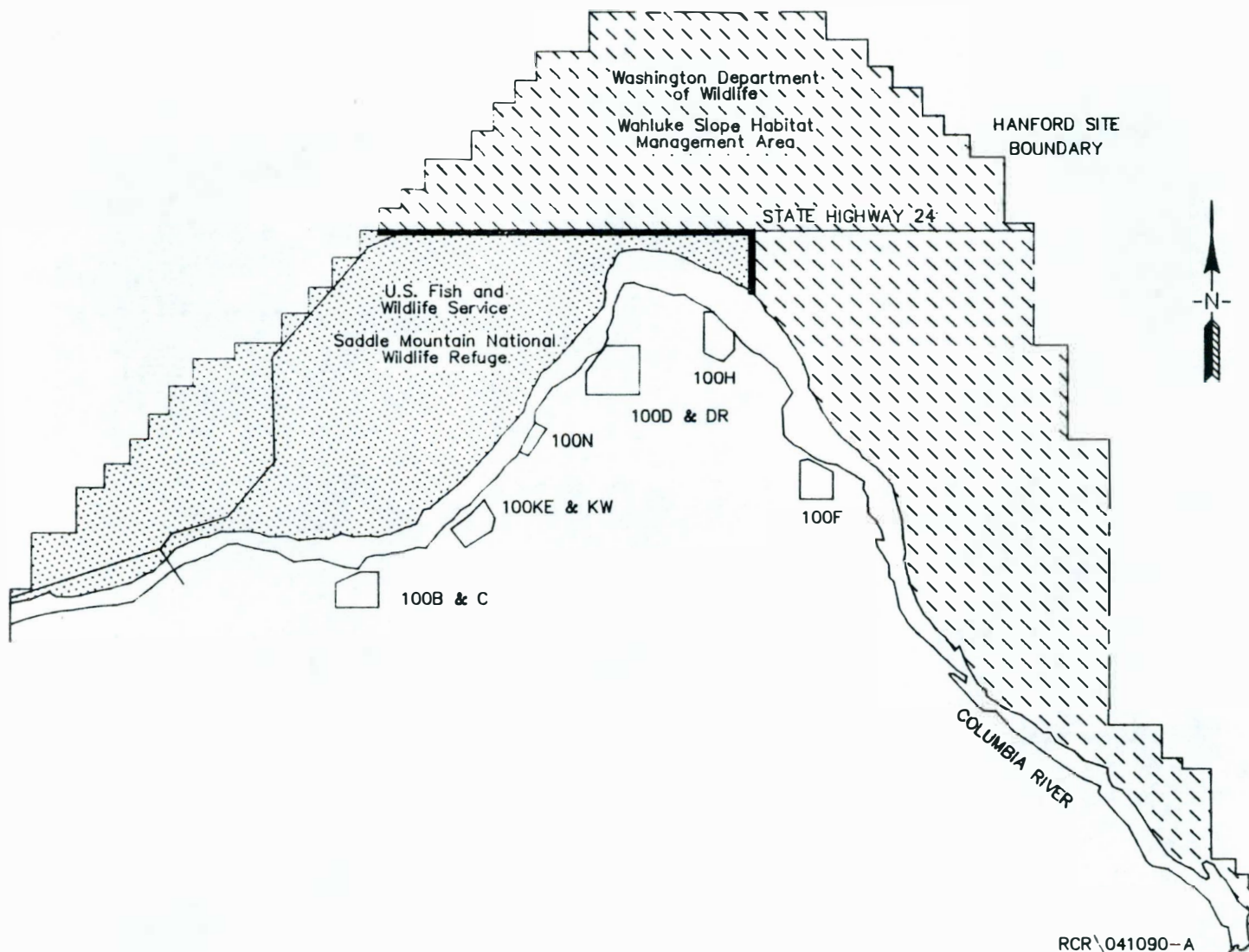


Figure 1. North Slope Area Map.

MHC-EP-0359

## 2.0 SCOPE AND OBJECTIVES

The objectives of this investigation were to assess potential health, safety and environmental concerns, and the need for corrective action in the North Slope area. These objectives are being accomplished in two phases. Phase I objectives were to inventory sites of potential hazards and assess current site conditions by visual observation, as documented in this report. Phase II is the implementation phase for interim corrective actions. Actions will be based on Phase I findings and subsequent investigation including appropriate sampling and excavation. Some Phase II activity has been initiated (refer to Sections 4.1 and 4.2).

Information gathered during this project has been presented to the Westinghouse Hanford Company (Westinghouse Hanford) Environmental Protection Group for evaluation of chemical and waste hazards according to internal Westinghouse Hanford procedures. The Operational Site Services organization of Westinghouse Hanford will be responsible for determining and implementing appropriate mitigation of physical hazards.

Having complete information on all suspected hazards will allow those responsible within DOE-RL and Westinghouse Hanford to make informed decisions regarding corrective action on the North Slope. This study also will allow Westinghouse Hanford and DOE-RL to respond to additional inquiries.

Information has been gathered from a variety of sources. This information has been pursued and related, whenever possible, to a location in the field. Considerable time was spent in a ground search of the North Slope. This search was conducted over many miles, on foot, in off-road vehicles, and from the air. The ground search concentrated on known site areas and specific areas of suspected historical activity.

## 3.0 INVESTIGATION PLAN

The plan for investigation of the North Slope consisted of several activities:

- Documenting sites that were known but not entered into a Hanford Site database
- Information gathering from persons and historical records
- Verify information gathered from various sources
- Conducting ground searches and an aerial survey of areas considered most likely to be impacted by past uses.

These activities were continued throughout the project duration.



### 3.1 SITE DOCUMENTATION

The intent of Phase I activities was to locate sites in the field and document current site conditions. Sampling or excavation was not performed for safety reasons, as described in Section 3.3.

Field crews consisted of at least two individuals. When a site was located, a walk-through survey was conducted of the immediate area of disturbance. This was typically followed by a perimeter search in an expanding spiral until evidence of past disturbance or potential hazards was no longer found. Photographs were taken of the site, and areas of potential hazard were documented in a field notebook. Notes on each site, including field notes, are presented in Appendix B.

As sites were documented, field personnel made an initial evaluation regarding the threat posed to health, safety, or the environment. The evaluation was based on conditions observed and did not include sampling or excavation. If the threat was judged to be imminent, immediate corrective action was taken as appropriate. Initial evaluation of the threat level was a field decision guided by the following factors:

- The potential for explosion
- The concern of chemical constituents
- The potential for increasing problems with time
- The potential for physical injury.

Ordnance experts were called in for investigation of the three sites on the North Slope. These sites are designated PSN 07/10, Shrapnel Area, and Hanford Firing Range. Each of these sites potentially contained military ordnance. These sites were investigated by personnel from the U.S. Army Explosive Ordnance Division (EOD), with assistance from the Hanford Site Patrol, and Westinghouse Hanford Environmental Engineering Group. No unexploded ordnance has been located during these investigations. The COE has also investigated the area and has found nothing constituting a significant public hazard.

### 3.2 INFORMATION GATHERING

Gathering information was a vital part of this project. As much as possible, all reports, stories, and rumors were investigated in an attempt to either confirm or reject each one. Information was gathered from a variety of sources including those listed below.

#### 3.2.1 Historical Records Survey

Historical records are available that give insight to land uses during a number of time periods. Records are available with information about

pre-Hanford settlement, military activities, and Hanford Site cleanup efforts. Records used in this search include:

- Hanford historical files
- U.S. Army Corps of Engineers Records
- Douglas, Grant, and Franklin Counties property ownership transfer records
- U.S. Bureau of Reclamation survey records
- Personal histories of past residents of the site.

### **3.2.2 Information from People Knowledgeable About the Area**

Information was gathered from the following people:

- Ranchers with grazing agreements on the North Slope
- Former residents of the area
- Professionals working in the area
- Persons who use the area for recreation.

### **3.2.3 Information Known but Not Recorded**

Some information was known about sites on the North Slope but not formally documented until this project began. This information was generally confined to sites of physical hazards or sites that did not appear to pose imminent threat to health, safety, or the environment. As this information was gathered, sites were documented and will be evaluated for inclusion into WIDS according to internal Westinghouse Hanford procedures.

## **3.3 SITE VERIFICATION AND DOCUMENTATION**

When sufficient information was gathered on a suspected site, an attempt was made to verify the site in the field. Field verification included the following:

- Locating the site to confirm existence and location
- Documenting current site conditions
- Identifying site location on a map for future reference.

Health and safety requirements prohibited more than visual observation of each site. If a follow-up study is necessary, a more intensive investigation will take place after evaluation of potential hazards and

safety risks at each specific site. No sampling or excavation will be done as part of site characterization until a sampling plan (including a quality assurance plan) and a health and safety plan are prepared and approved.

## 4.0 INVESTIGATION FINDINGS

The great majority of sites identified in this investigation can be categorized as associated with either military or homestead activity. Within these categories, findings from site to site are generally similar. A discussion of typical sites follows. Notes on specific sites are included in Appendix B.

### 4.1 MILITARY SITES

Evidence of a number of old military sites is found on the North Slope. Military records kept by the U.S. Army Corps of Engineers identify three NIKE missile sites and seven camps or antiaircraft sites.

Although sites may have had different operating functions, their origin in the same military system results in several similarities. The typical military site on the North Slope consists of several reinforced concrete foundation pads, scattered bottles and metal cans, and a disposal area.

Above-ground structures have been demolished and removed. Exceptions are five water well structures made of reinforced concrete. They are 2 to 3 ft tall and extend underground into chambers approximately 6 by 8 by 10 ft deep. These structures usually have metal covers that can be opened. The well shaft is located in the floor of the chamber.

Underground structures have been destroyed or filled in. Exceptions are two rooms at the radar site and a few small structures at the other sites. These are noted in Appendix B.

Originally, well covers were locked by Hanford Site contractors to prevent unauthorized access. After the public was allowed in the area for recreation, curious persons began to cut locks and latches off the wells to open the doors. Efforts at opening the covers have been so persistent that securing the doors with locks have been ineffective.

Reports from personnel assigned to military units at and near the North Slope indicate that there was no centralized refuse disposal system in operation for military sites on the North Slope. Each site maintained an individual landfill. Investigation of debris at the surface of disposal areas reveals the typical range of military camp items (e.g., food cans and bottles, motor pool refuse, office and personal supplies). Personnel in nearby military units report that no controls were kept on materials disposed of in the landfills. Paint cans and empty oil cans are commonly found in the disposal areas. Several 1-gal cans of solvent have been found but are not numerous. Nothing was found at the surface of any landfill that was



considered an imminent hazard to personnel or the environment. Although many empty oil and paint cans were found, there is no indication that large quantities of environmental pollutants were disposed.

Typically, small amounts of refuse can be found in the vicinity of the military sites; this frequently includes oil and lubricant cans ranging in size from 1 qt to 5 gal. Only a few cans have oil remaining in them. These cans have collected dust, plant debris, and insect bodies so that no free liquid remains. Paint cans also are common and are frequently partially full of dried paint.

At essentially every military site, scraps of asbestos-transite siding from building structures remain. Pieces are generally small, apparently overlooked as materials were being removed from the sites for disposal. Personnel associated with site cleanup in the mid-1970's indicate that building structures were knocked down and buried in pits near the original building locations. Significant quantities of siding materials containing asbestos may be buried near each of the military locations on the North Slope.

While the military was stationed on the North Slope, a main-site motor pool was located across the Columbia River where the main Hanford Site construction and operations were occurring. Major repairs and nonroutine vehicle requirements were completed at this location. Each military site is also reported to have had its own smaller motor pool. Routine maintenance was performed, indicating the potential for used motor oil, solvents, and antifreeze at the sites. Reports indicate that standard procedure at that time was to use used oil for dust control on roads.

Some military sites have maintenance areas with sunken pits for convenient access by mechanics to the underside of vehicles. These grease pits may have had dry wells for solvent and oil disposal. However, they have been filled with soil, so this possibility could not be verified.

In addition to the several military camps described above, three sites were found or reported that are not similar to those described previously (also shown in Appendix B); (1) an area of shrapnel concentration; (2) a practice firing range; and (3) a reported bombing range.

#### 4.2 HOMESTEAD SITES

It is reported that the entire area included in the North Slope was homesteaded at some time since the late 1800's. The North Slope area was used for orchards and row crops near the river, wheat on the high ground away from the river, and as a grazing area where soil conditions would not allow the raising of crops.

As with military and other sites on the North Slope, homestead structures such as homes and outbuildings were leveled and removed during the mid-1970's. Typically, homestead locations can be identified by scattered cans, bottle shards, and pieces of lumber. Occasionally, a section of fence line remains near the homesite.

Many homestead sites are located within the 190 mi<sup>2</sup> of the North Slope. Relatively few have been noted in this study. As mentioned above, most sites are identified only by a few scraps of lumber and a half-dozen old cans. Sites identified in this report have either a remaining cistern or an identifiable garbage disposal pit.

Cisterns are structures used for the storing of water for domestic and livestock use. They are concrete or mortar lined and range in size from 3 to 10 ft in diameter and 4 to 14 ft deep. Water was hauled from the river or a spring and stored in the cistern.

Those cisterns that are largely intact may represent a physical hazard to persons and livestock. A person or animal falling into one of the larger cisterns may be injured, and the sheer walls may make escape without assistance difficult. As cisterns are identified, the location is communicated to DOE-RL and the Washington Department of Wildlife. The Washington Department of Wildlife has agreed to fence and post warnings at these sites. No cisterns have been located during this investigation on land permitted to the U.S. Fish and Wildlife Service.

No specific hazards have been found associated with homestead garbage pits. One former resident indicated that, because money was scarce, canned goods were expensive and, consequently, rarely purchased. Most goods came in paper containers. Anything that could be reused was, and the few items that could not be reused were burned.

In the orchard areas, pesticides were used. Pesticides included lime sulfur and lead arsenate. In latter years, dichloro-diphenyl-trichloroethane (DDT) and other pesticides may have been used. No areas have been found that are suspected of being pesticide disposal areas associated with homestead activity. The 2, 4-D burial site, resulting from the U.S. Bureau of Reclamation work in the 1960's, is documented.

## 5.0 SUMMARY OF SITES INVESTIGATED

A brief summary of each site addressed in Phase I is included in this section. Some were not verified by investigation (e.g., an underground military warehouse) and may be only rumor, with no actual existing site. Sites in this section are listed in alphabetical order under the headings Military Sites, Homestead Sites, and Other Sites. The names of military sites are in most cases taken from U.S. Army Corps of Engineers records. Some of the military names are based on references to locations in records. Site designations in doubt are noted. Other site names are based on field observations. A total of 22 military sites, 12 homestead sites, and 8 other sites are discussed.

The summary for each investigated site is followed by a parenthetical number that corresponds to the map shown as Figure 2. Appendix B contains field notes for investigated sites.

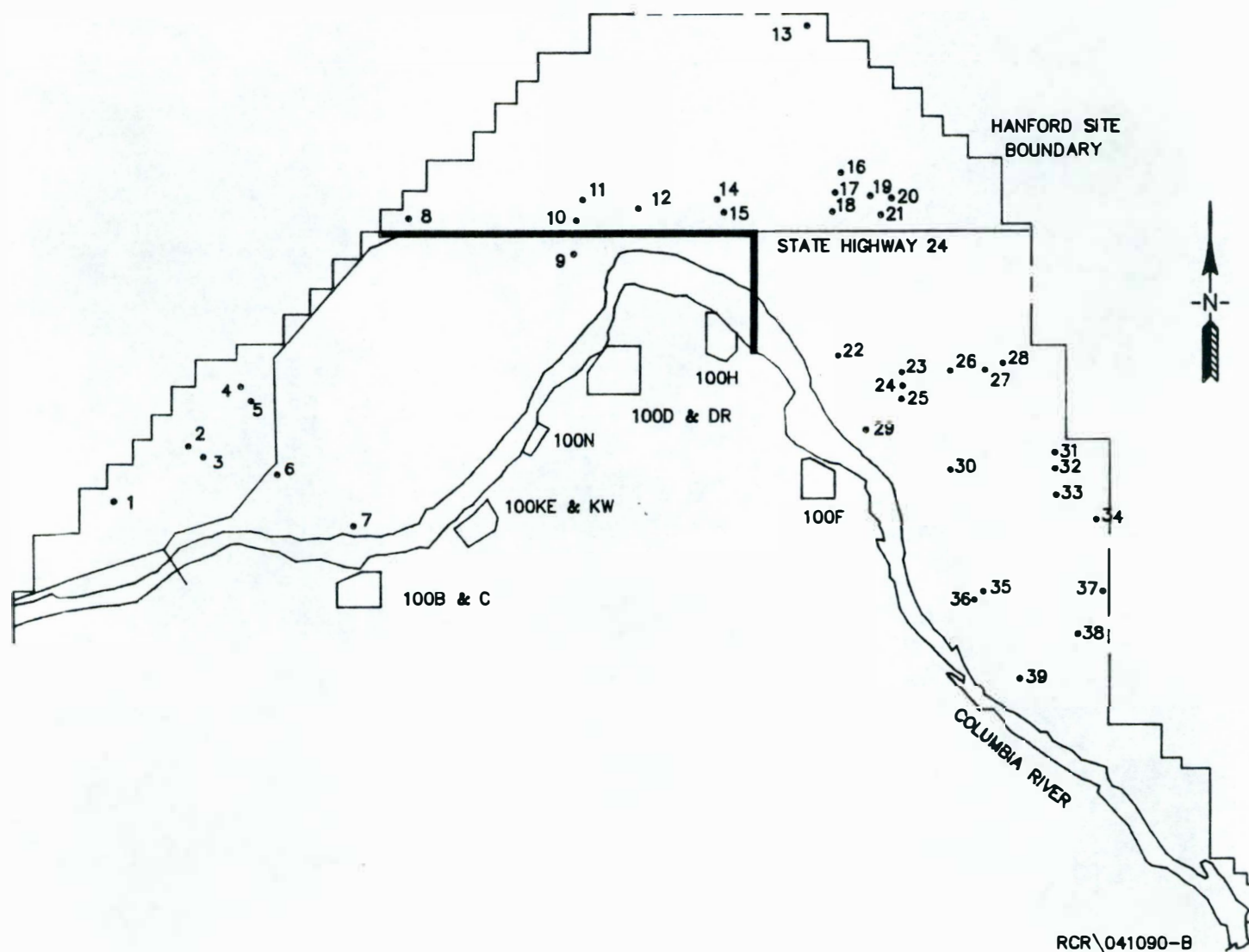


Figure 2. North Slope Site Investigation Locations.



## 5.1 MILITARY SITES

**Ammunition Dump**--Two reports have been received of an ammunition dump possibly existing on the North Slope. Confirmation of these reports has been a major effort in this investigation. Although unconfirmed reports persist, no evidence of such a site has been found.

**Bombing Range**--Two practice bombing ranges have been reported on the North Slope. One is reported to be between East White Bluffs ferry landing and H-06C (the NIKE control center at the summit of the Saddle Mountains, number 12 on Figure 2). The second range is reported to have been along what is now the Wahluke Branch Wasteway. No evidence has been found to confirm either area as a practice bombing range.

**Construction Dump**--This dump appears to be an area used for the disposal of building structures and general trash remaining from military sites. Several empty lubricant cans were found at the site. (28)

**H-06C**--This is the control center for the "Battery A" NIKE missile site. A graded area of approximately 1/2 acre indicates the possible location of a landfill used for the disposal of building structures. Concrete foundation pads are the only remains on the site. (13)

**H-06L**--This is the launch site for the "Battery A" NIKE missile site. The underground structure has been partially excavated but is fenced and posted with the warning, "DANGER." (17)

**H-12C**--This is the control center for the "Battery B" NIKE missile site. A small excavated area is the probable location of demolished structures. Several paint cans remain at the site. (26)

**H-12L**--This is the launch site for the "Battery B" NIKE missile site. An underground structure is partially excavated and may pose a physical hazard to vehicular traffic. (23)

**H-12R**--Actual use of this area is uncertain. This location does not coincide with the military maps of H-12R, but concrete footings at the site suggest that towers (possibly radar towers) were present. Two other sites, Radar Site and PSN 80 have similar layouts. The exact function of all three sites is not known. (25)

**H-81R**--This site corresponds to site H-81R on military maps. Little remains on the ground surface except graveled roads. One small berm apparently covers items disposed of including radio batteries and bottles. A "snake trap," consisting of a 55-gal drum buried in the ground, is at this site. The lid is exposed, and a 4-in. by 10-in. hole is cut in the lid. The actual purpose of the snake trap is unknown. (3)

**H-83C**--This is the control center for the "Battery C" NIKE missile site. Concrete foundation pads and an apparent well structure remain. Nearby is a small burial pit with a few hundred 30/06 blank rounds of ammunition (fired), together with steel links from a belt-fed automatic weapon. Several military style tires are left at the site. (2)

**H-83L**--This is the launch site for the "Battery C" NIKE missile site. The structures have been demolished except for the well structure at the barracks location. A disposal area extends to the north of the site. (4)

**Igloo Site**--This is the site of the ammunition storage "igloos." The area is cleaned up with the exception of several empty broken shipping crates for 120-mm gun ammunition. (12)

**PSN 01**--This is an anti-aircraft gun site. Above-ground structures were removed with the exception of the well structure. Some disposal trenches are on site. (11)

**PSN 04**--This is an anti-aircraft gun site. Above-ground structures were removed with the exception of the well structure. Several disposal trenches are on site. The well structure has been spray painted with the warning, "Danger Contaminated." Several blue plastic 55-gal drums were found in a gully near the site. The drums apparently have been used for stock watering. The drums were tracked to their origin, and investigation indicated that they contained photographic fixative, primarily acetic acid. (4)

**PSN 07/10**--This is an anti-aircraft site, used also as a barracks area for a NIKE missile site. The site had a motor pool and an unconfirmed potential for the disposal of used oil and solvent. The well structure has been removed. This is the site where practice land mines were found. (18)

**PSN 12/14**--This is an anti-aircraft gun site. A few small disposal pits have been identified, and a large landfill is also nearby. The Construction Dump, an area of disposed wooden structures and general trash (27), is near this site. (26)

**PSN 72/82**--This site is an anti-aircraft gun site. Small disposal areas are identified. A firing range for 22-caliber target practice is nearby. (1)

**PSN 80**--The function of this site is not known. The layout is similar to the H-12R and Radar sites. The site is roughly oval and is surrounded by a gravel road. Three sets of small concrete pads served as anchors for towers or large guns. (5)

**PSN 90**--This site is an anti-aircraft site. The well structure has been removed but motor pool maintenance pits are in place. Used oil and solvents may have been disposed of at this site. A concrete ramp remains on site, apparently used for vehicle maintenance. This structure has been used recently for changing vehicle oil. (8)

**Radar Site**--This site is not included on military maps. It is similar to the PSN 80 and H-12R sites. The site is roughly oval, approximately 1/4 mi long by 400 yd wide, and surrounded by a gravel road. The site includes three underground rooms (two are intact, one destroyed) approximately 10 by 10 by 10 ft. Near the rooms are concrete pads with exposed bolts. The pads apparently served as a foundation for towers (radar?) or large guns. (15)

**Shrapnel Site--**Shrapnel has been found in three areas. At two of the areas, only two pieces of shrapnel have been found. In one area, over 100 lb of shrapnel reportedly have been found. It is not certain what type of shells are responsible for the shrapnel. During the investigation it was speculated that the area was a demolition area where out-of-date or unusable shells were destroyed by detonation. However, findings in the field do not rule out this site as a possible area of fallout from antiaircraft rounds exploding in the air. (22)

**Underground Warehouse--**A report was received of a person claiming to have been inside a "huge, underground warehouse filled with military weapons, ammunition, and jeeps." The time frame was reported to have been after the military had left their positions on the North Slope.

Follow-up on this report was unsuccessful. The report was at least 15 yr old, and the nearest source of information was unable to recall who actually claimed to have seen the structure.

Available military records did not document an underground warehouse. However, three storage igloos (earth-covered rooms) were present. These have been destroyed and removed but may be the source of this report.

## 5.2 HOMESTEAD SITES

**12-3 Cistern--**This cistern is approximately 5 ft in diameter by 8 ft deep. It is located near power pole 12-3. No obvious disposal pits remain from the homestead. (33)

**Clay Pit Cistern--**This cistern is approximately 4 ft in diameter. Trash and weeds in the cistern do not allow the depth to be determined. It is located near a pit that was used to obtain clay for lining irrigation canals. No obvious disposal pits remain from the homestead. (19)

**Cow Camp Cistern--**This cistern is approximately 4 ft in diameter. Trash in the bottom does not allow depth to be determined. This cistern contains several empty bottles of livestock antibiotic and pesticide for delousing cattle. No obvious disposal pits remain from the homestead. (20)

**Homestead Cistern--**This cistern is approximately 5 to 6 ft in diameter. Old fencing material is stacked around the perimeter of cistern. (21)

**Overlook Cistern--**This cistern is approximately 10 ft in diameter by 14 ft deep and is located near bluffs overlooking the Columbia River. Small disposal pits remain from the homestead. (36)

**Power Line Cistern--**This cistern is approximately 4 ft in diameter by 6 ft deep. It is located near power line. No obvious disposal pits remain from the homestead. (31)

**Stock Tank Cistern--**The stock tank is approximately 12 by 12 ft by 5 ft deep. No obvious disposal pits remain from the homestead. A well with an approximate 8-in.-dia casing is nearby. (32)



**Wagon Road Cistern**--This cistern is approximately 8 ft in diameter by 8 ft deep. The site has been fenced by Washington Department of Wildlife personnel. Some small disposal pits remain from the homestead. (30)

**Wasteway Cistern**--This cistern is approximately 8 ft in diameter by 3 ft deep. It has been mostly filled in, and the walls are partially collapsed. No obvious disposal pits remain from the homestead. (16)

**Dune Homestead**--This homestead is near a small series of sand dunes. Some disposal sites from the homestead are in the area. (34)

**Lonetree Homestead**--At this homestead area, a single cherry tree remains alive. Some small disposal areas remain. (38)

### 5.3 OTHER SITES

**2,4-D Burial Site**--This site was used for disposal of 2,4-D contaminated soil and four leaking tanks. The site is documented in WIDS (Appendix A) and is part of the 100-IU-3 operable unit. (29)

**Asbestos Pipe Site**--Pieces of concrete and asbestos pipe are exposed in a sand blowout at this site. The origin of the pipe is unknown; however, a NIKE missile site is nearby. (24)

**Asphalt Batch Plant**--This area appears to have been used as a temporary batch plant for mixing asphalt for paving operations. The original users of the area are unknown. (9)

**Coyote Bait Can**--At this site, a large military ammunition box is partially buried. The lid is marked with paint "BAIT CAN." Evidence in the area suggests that it was once used to store bait for coyote trapping. (35)

**Coyote Bait Station**--At this location, over 50 coyote skulls were counted. Large animal bones in the area indicate that a poisoned carcass was used. Reports from past residents of the area tell of a trapper who would frequently poison a horse carcass to kill coyotes for the pelts. Bones at this location were old and may predate government control of the land. (37)

**Gravel Pit #47**--This gravel pit has a pile of trash disposed in it. Much of the trash appears to be of military origin. Many bottles and beverage cans make up the pile, along with fencing wire. Two paint cans are also at the site. (6)

**Gravel Pit #56**--This gravel pit was investigated, and no evidence was found of dumping or other hazards. (10)

**Hanford Firing Range**--This range was used by the original Hanford Site security force for target practice. Numerous 30- and 50-caliber bullets were found near the target area. Investigation with EOD personnel produced a few 37-mm nonexplosive rounds. (39)



**Wahluke Schoolhouse**--Only the front steps remain to this old schoolhouse. This site is not at the townsite of Wahluke. No evidence of hazards were found in the area. (7)

## 6.0 CONCLUSIONS

During this investigation, no environmental hazards have been identified that require immediate corrective action. The potentially hazardous cisterns have been reported and will be fenced according to an agreement between those permitted to use the land and DOE-RL. Three sites were identified in which military ordnance may have been located. These sites have been investigated by EOD and COE. No unexploded ordnance has been found, and COE concludes that nothing observed so far can be regarded as a significant public hazard.

## 7.0 RECOMMENDATIONS

Interim corrective action has been taken regarding some sites on the North Slope. These sites are the large, unfenced cisterns and the sites potentially containing military ordnance. Additional characterization work may be appropriate on the North Slope. However, immediate characterization or remediation is not warranted at the remaining sites. This work will be planned as part of the environmental cleanup of the entire Hanford Site.

Topographic relief, vegetation, and the passage of time all serve to obscure sites of potential interest. Sites may exist on the North Slope that were not observed during this investigation. Changing vegetation and erosional patterns may expose additional sites such as homesteads or military bivouacs that should be investigated as areas of potential concern.

Evidence in the field and interviews with persons present at the time indicate that antiaircraft batteries were fired at least once. This firing leaves a potential for unexploded rounds on the North Slope. No dud rounds have been found on the North Slope, but the possibility cannot be dismissed. Areas known to contain shrapnel should be investigated periodically to detect duds exposed by erosion.

The recent inventory effort has adequately investigated available information. As additional information is discovered, and, as erosional and ecological patterns change the North Slope, additional sites may be encountered. New sites will be documented and added to the body of information available for planning and implementing characterization and cleanup of this area.

**APPENDIX A**

**WASTE INFORMATION DATA SYSTEM  
ON THE NORTH SLOPE**

Waste Information Data System  
General Summary Report  
April 13, 1990

SITE NAME: USBR 2,4-D Burial Site  
ALIAS NAMES: None

SITE TYPE: Landfill  
WASTE CATEGORY: Hazardous Waste

OPERABLE UNIT: 100-IU-3  
REGULATORY AUTHORITY: Undefined

STATUS: Inactive  
SERVICE DATES: From 1966 to 1967

COORDINATES: N75000 W10000  
LOCATION: 600 Area.

REFERENCE DRAWINGS: H-3-57210, M-6000 #1

SITE AREA: 4,800.00 square feet

ELEVATIONS and DEPTHS:      Ground:                      700.00 feet above MSL  
                                 Water Table:                350.00 feet below grade  
                                 Site Depth:                 4.00 feet below grade

WASTE VOLUME RECEIVED:                      cubic meters  
CONTAMINATED SOIL VOLUME:                   cubic meters  
OVERBURDEN SOIL VOLUME:                    cubic meters

**SITE DESCRIPTIONS:**

Burial ground, 400 ft long trench, 12 ft wide by 4 ft deep, covered with 4 ft of soil.

**WASTE DESCRIPTION:**

In 1966, 2,4-D contaminated soil was generated from leaking storage tanks at a USBR Station in Eltopia, WA. The burial consisted of 900 gal of 2,4-D that had leaked into 50 yd of soil. A second burial in 1967 consisted of the ten leaking tanks themselves, which were flattened and buried in the same location.

Waste Information Data System  
General Summary Report  
April 13, 1990

SITE NAME: Wahluke Slope Nike Missile Base  
ALIAS NAMES: None

SITE TYPE: Test Treatment or Support Facility  
WASTE CATEGORY: Nonhazardous/Nonradiation

OPERABLE UNIT: 100-IU-3  
REGULATORY AUTHORITY: Undefined

STATUS: Inactive  
SERVICE DATES:

COORDINATES: N515000 W20000  
LOCATION:

SITE AREA:

ELEVATIONS and DEPTHS:      Ground:                      feet above MSL  
                                    Water Table:                feet below grade  
                                    Site Depth:                 feet below grade

WASTE VOLUME RECEIVED:                      cubic meters  
CONTAMINATED SOIL VOLUME:                  cubic meters  
OVERBURDEN SOIL VOLUME:                    cubic meters

**APPENDIX B**

**NOTES ON INDIVIDUAL NORTH SLOPE SITES**

Site Name MIL - Construction Dump

NORTH SLOPE  
Suspect Site Field Data SheetInvestigators: RCR  
DSLDate 1 / 25 / 90  
Time 1049Site Location: Area near corner section of sections 13/24, T 14N R 27E,  
and sections 18/19, T 14N R 28E. About 2/3 mi north and east of PSN 12/14Coordinates: 186° from Observatory Peak (Rattlesnake)  
313° from H-06CIndications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Site is an area of demolished wooden military buildings. Considerable debris from building structures is present. The greatest amount of debris is concentrated within a 2 acre area, however, some building remains and trash are found over a large area extending roughly east-west. Many 1-gal and 5-gal oil cans are in the area. Lubricant cans and automobile parts suggest that trash may have come in part from a military motor pool. No specific areas of environmental concern were identified in the preliminary investigation. General construction debris such as boards with nails may pose a hazard to persons or animals.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: No specific hazards were identified. General cleanup of area may be appropriate.

Site Name MIL - H-06C

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

**Investigators:** RCR  
ARJ

**Date** 1 / 5 / 90  
**Time** 1115

**Site Location:** SE 1/4 of NE 1/4 Section 16, T 15N R 27E. End of road at summit of Saddle Mountains. Access through PSN 04.

**Indications of Problem:** ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☒ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☒ Documentation  
☒ Road Terminus ☐ Other ☐

**Site Narrative:** Control center for "Battery A" NIKE missile site. Remaining on site is a few concrete foundation pads. A leveled area on the north side of the access road may indicate the disposal area for the site. Little trash remains around the area. Over the cliff, in the "saddle" are a few 5- and 55-gal drums and a small quantity of other garbage.

**Documentation:** ☐ None ☐ Attached  
☒ Contact: U.S. Army Corps of Engineers Maps

**Recommendations:** No significant hazards were located during this investigation. Potential disposal area may be investigated at a later time.



Site Name MIL - H-06L

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
JGL

Date 1 / 24 / 90  
Time 1504

Site Location: NW 1/4 Section 34, T 14N R 27E. 1 mi north of Hwy 24 at mile marker 62 1/2. Access through PSN 07/10.

Coordinates: 327° from H-06C  
178° from Observatory Peak (Rattlesnake Mtn)  
169° from Radio Peak (Gable Mtn)

Indications of Problem: ☒ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☒ Soil Disturbance ☐ Trash Pile ☒ Documentation  
☒ Road Terminus ☐ Other ☐

Site Narrative: Site is the launch location for "Battery A" NIKE missile installation. All structures have been leveled to the ground. Foundations remain as well as roadways, parking areas, and drainage structures.

The entrance to the underground structure (filled with soil to prevent entrance) has been partially excavated. It does not appear, however, that entry is possible at this time. Potential hazard from the opening appear to be from tripping and the exposed reinforcing steel. This location is fenced and posted.

Similar sites contain an acid pit used for disposal of acids used in maintenance operations. Concern has been raised by the lack of vegetative growth on soil berms at another missile site. Soil at H-06L is also largely barren; this appears to be due to the fact that only a relatively thin layer of soil overlays asphalt and concrete pads. Insufficient soil may exist to support plant growth during the hot, dry summer. Report from personnel stationed at the site indicates that removal of vegetation from soil berms was a major activity. This may indicate that persistent herbicides may not have been used.

One underground storage tank was located at this site. Approximate location is known; however, no evidence remains of the tank. Removal during excess operations is likely.

A 55-gal barrel is buried to the rim at the perimeter of the site. Function is unknown.

Barracks location for H-06L is at the site named PSN 07/10. The barracks area is described under the heading PSN 07/10.

**Documentation:**

☐ None ☐ Attached  
☐ Contact: U.S. Army Corps of Engineers maps

**Recommendations:** No significant hazards were identified during this investigation. It would be appropriate to more fully investigate this site.

Site Name MIL - H-06L Dump

NORTH SLOPE  
Suspect Site Field Data SheetInvestigators: RCR  
RMMDate 2 / 2 / 90  
Time 1205

Site Location: N 1/2 of SE 1/4 Section 34, T 14N R 27E. East of position H-06L about 1 mi, 200 yd east of White Bluffs Wasteway, and 1/4 to 1/2 mi north of HWY 24.

Coordinates: 318° from H-06C  
244° from H-06L (southern tree)  
179° from Observatory Peak (Rattlesnake)  
171° from Radio Peak (Gable Mtn)

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☐ Soil Depression  
☒ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☒ Road Terminus ☐ Other ☐

Site Narrative: Site is approximately 2 to 3 acres in size. Disturbance of the soil is apparent. Inspection of the site shows a variety of materials exposed at the surface: paint cans, construction materials, asbestos siding, an asbestos brake pad. The site was used by the military at H-06L and possible other nearby locations for disposal.

Documentation: ☐ None ☐ Attached  
☒ Contact: KWK

Recommendations: Further characterization may be appropriate at this site. No imminent safety or environmental threat was observed at the time of this investigation.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
RPH

Date 12 / 22 / 89  
Time 1310

Site Location: NW 1/4 Section 24 T 14N R 27E. About 1/4 mi east of the corner of sections 13, 14, 23, 24. At road terminus west of PSN 12/14, and about 3 mi east of White Bluffs landing.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☒ Documentation  
☒ Road Terminus ☐ Other ☐

Site Narrative: This site is the control center for the "Battery B" NIKE missile site. No environmental concerns of a serious nature were observed. One 5-gal can of military lubricant was found containing a small amount of contents, but bodies of beetles had largely soaked up the liquid so that no free product remained. No evidence was found of underground storage tank locations.

Communication wire lead from the site, apparently to the launch site, H-12L. A trench was bulldozed to the north of the site. Observation indicated no evidence of buried materials in the trench, but several paint cans and some lubricant cans were nearby.

The U.S. Army Corps of Engineers personnel suspect that position H-12R, the radar station associated with this NIKE position is collocated with the control center H-12C. No evidence was found to confirm or refute this.

Some reinforcing bar was exposed around the building foundation. This may pose a physical hazard to inattentive persons in the area.

Documentation: ☐ None ☐ Attached  
☒ Contact: Maps of military activity

Recommendations: No imminent hazards were observed. However, it may be appropriate to more completely investigate the area. Reinforcing bars may be cut off near ground level to reduce potential for injury.

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
RMM

Date 1 / 5 / 90  
Time 0925

Site Location: SW 1/4 of NW 1/4 Section 23, T 14N R 27E. Approximately 1/2 mi east of intersection to White Bluffs landing.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☒ Documentation  
☒ Road Terminus ☐ Other ☐

Site Narrative: Site is the launch area for "Battery B" NIKE missile site. Buildings have been removed so that only concrete foundation pads remain. The underground storage area was filled with soil during the 1974 to 1975 cleanup effort. The entrance to the underground area has been partially excavated. Another area has been excavated to a depth of 3 to 4 ft. This site is apparently an electrical access port. These excavations may pose a hazard to vehicular traffic in the area. Neither site is fenced.

An underground storage tank was probably on site during operation. The general location is known, but no evidence of the tank remains.

A large soil depression is at the northwest corner of the site. Soil disturbance suggests that this depression may have been used for disposal.

Documentation: ☐ None ☐ Attached  
☐ Contact: U. S. Army Corps of Engineer maps

Recommendations: The excavations should be fenced or marked. Additional characterization may be appropriate at potential disposal areas. GPR or magnetrometry should confirm absence of underground storage tank.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

**Investigators:** RCR  
DSL

**Date** 02 / 08 / 90  
**Time** 1039

**Site Location:** S 1/2 Section 23, T 14N R 27E

**Coordinates:** 327° from H-06C  
34° from H-12C  
184° from Observatory Peak (Rattlesnake)

**Indications of Problem:** ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☒ Road Terminus ☐ Other ☐

**Site Narrative:** Site is a gravel road intersecting the paved access road to H-12C and PSN 12/14. Gravel road intersects access road opposite intersection of road to H-12L. In other words, this position is south of H-12L and directly beneath the White Bluffs power lines.

A gravel road forms a perimeter of the site. Remains are present of several wood frame structures. Many piles of domestic garbage can be found. Several 5-gal oil cans and some 55-gal drums are present. Automobile parts are also at the site. I have called the site H-12R because concrete footings approximately 18 by 10 in. are present at the east and west ends of the site. The arrangement of the footings suggest some sort of tower may have been bolted in place at these locations. Some doubt exists whether this is indeed a radar site. Generally, radar was placed in a high location, and this is in a low spot. Also, military maps show H-12R to be nearer PSN 12/14.

The site is approximately 1/3 mi long by 300 yd wide, is underneath the power line, and the axis runs east-west. General layout of this site is similar to Radar and PSN 80 sites. No evidence was found of underground structures at this site.

**Documentation:** ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

**Recommendations:** No specific hazards were found beyond paint cans and lumber. A more thorough characterization of the site may, however, be appropriate.



Site Name MIL - H-81R

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
JGL

Date 3 / 21 / 90  
Time 1521

Site Location: N 1/2 of SW 1/4 Section 28, T 14N R 25E.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☒ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☒ Road Terminus ☒ Other U.S. Army Corps of Engineers maps

Site Narrative: Little remains of the site. Partial foundation pads are present. A large disturbed area on the west side of the site may indicate the disposal area. A small soil berm near the south-east corner of the site contains some refuse, including batteries and bottles.

A 55-gal drum is buried so that its top is flush with the ground near the north west end of the site. It has been referred to as a "snake trap," but function is unknown. A small hole in the interior of the drum shows no snakes.

Documentation: ☐ None ☐ Attached  
☒ Contact: U.S. Army Corps of Engineers maps

Recommendations: Further investigation may be appropriate at this site.



**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
CEH

Date 3 / 15 / 90  
Time 1152

Site Location: SW 1/4 of NW 1/4 Section 28, T 14N R 25E. 1/4 mi north of main east-west access road, near top of bluff.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☒ Documentation  
☒ Road Terminus ☒ Other U.S. Army Corps of Engineers maps

Site Narrative: Site is the control center for "Battery C" NIKE missile site. A well structure remains on the site, but it has been mostly filled with soil. A small pit was found (approximately 4 by 1.5 ft) containing several hundred rounds of fired 30/06 blank ammunition along with steel links for belt fed automatic weapons. Several tires are found near the bluff.

A small trench west to the site may indicate a disposal area.

Documentation: ☐ None ☐ Attached  
☐ Contact: COE maps

Recommendations: Additional characterization may be appropriate at this site.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

**Investigators:** RCR  
KJK

**Date** 3 / 27 / 90  
**Time** 1005

**Site Location:** SW 1/4 Section 6, T 14N R 25E. Site is at the end of paved access road.

**Indications of Problem:** ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☒ Documentation  
☒ Road Terminus ☐ Other ☐

**Site Narrative:** Actual launch site is separated from barracks location by approximately 1/4 mi. Buildings and above-ground structures have been removed. Underground structures have been filled with the exception of a well structure. Some possible disposal areas exist west of the site, and a large disposal area exists north of the site. The area north of the site appears to contain materials from practice maneuvers from the 1960's. No actual burial trenches were identified to the north. An area of approximately 50 acres has an unusual amount of trash scattered about, indicating probable disposal sites.

**Documentation:** ☐ None ☐ Attached  
☐ Contact: U. S. Army Corps of Engineers maps

**Recommendations:** Further investigation may be appropriate if other military disposal areas are found to contain hazardous materials.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
KJK

Date 02 / 09 / 90  
Time 1308

Site Location: SE 1/4 of NW 1/4 Section 35 T 15N R 26E. Site is approx.  
1/2 mi north of Hwy 24 at about mile marker 57 1/2.

Coordinates: 142° from Radio Peak  
166° from Observatory Peak (Rattlesnake)  
193° from 100B Reactor

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☒ Road Terminus ☐ Other ☐

Site Narrative: Area around Igloo site shows no indication of hazard.  
Area is generally clean with exception of several broken boxes for ammunition  
for 4.7-in. guns.

Documentation: ☐ None ☐ Attached  
☒ Contact: U.S. Army Corps of Engineers maps

Recommendations: No hazards were identified at this site. Site may be  
planted to appropriate grass species.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
KJK

Date 2 / 14 / 90  
Time 1534

Site Location: W 1/2 of SW 1/4 Section 28, T 15N R 27E. Approximately  
1 mi north of Hwy 24 at mile marker 56.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☒ Soil Disturbance ☒ Trash Pile ☒ Documentation  
☒ Road Terminus ☐ Other ☐

Site Narrative: Site is an anti-aircraft site. Well structure is intact  
and could pose an attractive nuisance. Several areas appear to be disposal  
areas to the west, south, and north of the main area with trees.

Documentation: ☐ None ☐ Attached  
☐ Contact: U. S. Army corps of Engineer maps

Recommendations: Disposal areas may be investigated. Well structure may  
be evaluated as potential physical hazard.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
 DSL

Date 02 / 08 / 90  
 Time 1355

Site Location: SE 1/4 of NW 1/4 Section 32, T 15N R 27E

Coordinates: 2° from H-06C  
 174° from H-12C (poplar)  
 184° from Observatory Peak (Rattlesnake)

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☒ Road Terminus ☐ Other ☐

Site Narrative: Site is an old AAA site. Antiaircraft gun doughnuts are located north of tree and well complex. Cat scars north and south of the tree complex indicate possibility of buried disposal sites. Construction material and garbage in the gully to the southeast also indicate potential disposal locations.

Well is marked as contaminated. A report has been received indicating that the well is contaminated with pesticide. At least four 5-gal containers are present around site. Bright yellow color and absence of labels suggest possible pesticide containers. Origin is unknown. Indications are that the well was dry at the time of the investigation.

East of trees is a small gully. In the gully approximately 350 yd NE are several blue plastic 55-gal drums. Six drums are complete and have a hole cut in the top approximately 8 by 10 in. Three drums have been cut in half. This general type of drum is often used to make animal feed and water troughs. All drums appear empty. These appear to be clean drums used for livestock.

Drums were marked "Sterling Imaging Inc, Pasco WA." A check with the company indicated that barrels probably contained photographic fixative, primarily acetic acid. Contents listed as: ammonia diethiosulfate, sodium sulfite, acetic acid.

Documentation: ☐ None ☐ Attached  
☒ Contact: Stirling Imaging

Recommendations: More thorough characterization may be appropriate at this site.



**Susp**

**Investigators:** RCR  
JGL

**Site Location:** NE 1/4 of  
of HWY 24 at mile marker 62

**Coordinates:** 3  
1  
1

**Indications of Problem:**

X Pipes in Ground      X Old  
X Soil Disturbance      X Tr  
X Road Terminus      Other

**Site Narrative:** Site is location. It also served a locations of some significance. Sites associated with PSN 0

French drain, made by  
make a cylinder approx  
the top at ground leve  
through the side, abou  
the barrels could not  
northwestern-most locu  
southwestern-most locu

A motor pool grease pit facility. Potential exposure site.

Wooden underground str  
soil. Walls are made  
ft by 18 in. deep. It  
beyond 18 in. and has  
northwestern-most locu  
Structure is about 75  
07/10.

Concrete lined pit. P  
3 ft deep. It is near  
a nonsymmetrical pentag  
locust tree, 40° from  
from observatory peak,

stance 1000 f 2

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London, England, 1959

A mess hall is located near the east side of the complex. A grease trap and drain to the soil is associated with this structure.

Practice land mines have been found near this location. This is described as Land Mine Site.

A homestead cistern is located north west of the site. The cistern is mostly caved in, consequently poses little real hazard.

Documentation:        None        Attached  
  X   Contact: KWK, U.S. Army Corps of Engineers  
maps.

Recommendations: French Drain should be fenced, sampled, and dispositioned. Mess hall grease pit should be sampled. Pit and underground wooden structure should be filled. Additional characterization of the site may be appropriate.

Site Name MIL - Land Mine Site (PSN 07/10)

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators RCR  
CBG

Date 11 / 16 / 89  
Time 1000

Site Location About 300 yd North of Highway 24, at about mile marker 23 1/2. About 250 yd west of access road to PSN 07/10.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☒ Other Report from witness

Site Description Suspected mine field. Area is about 100 by 100 yd, surrounded by short posts about 18 in. tall. Two practice antitank mines were found on the ground surface on 14 September 1989. It was noted by a witness at that time that a nearby area appeared to be a mine field. The suspected mine field was swept by EOD and no evidence of mines were found.

The EOD personnel mentioned that when the mines were recovered on 14 September, they did not appear to have been in place for many years. Also, the condition of the mines suggested that they had been on the ground exposed to weather for only 2 to 3 yr.

Documentation: ☐ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: Areas of concern have been cleared by U.S. Army personnel. Appropriate action has been taken, and further action is not recommended at this site.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

**Investigators:** RCR  
RPH

**Date** 12 / 22 / 89  
**Time** 1433

**Site Location:** As mapped at terminus of road leading east from White Bluffs landing. Range 27E, T14N, northern 1/2 of section 24, and small southern portion of section 13.

**Indications of Problem:** ☒ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☒ Documentation  
☒ Road Terminus ☐ Other ☐

**Site Narrative:** Antiaircraft gun site associated with NIKE missile position 12. No significant environmental or health threats were observed. No indications of underground storage tanks were found.

Indications were found of one small burial site with some metal scraps, and old paint-type cans. The area was on the southern edge of the position and appeared to be less than 8 ft in diameter. A large dump site is located southeast of PSN 12/14 a few hundred yards. Most trash is apparent in large sand blowouts. This consists mainly of commissary type garbage: food cans, condiment and beer bottles. Miscellaneous items are present including pieces of a wringer washing machine, water tank and water heater, some solvent-type cans about 1-gal size. In a shallow gully near the east end of the garbage area are some packing boxes for big gun shells. Markings on packing tube lids were "120 M." Size was consistent with objects approximately 120 mm in diameter and 1/2 m long. All boxes and packing tubes were previously destroyed and can be confirmed empty.

The well at this position is open and may present an attractive nuisance due to the underground structure accessible. A small room about 8 by 8 ft is open underground.

**Documentation:** ☐ None ☐ Attached  
☒ Contact: Maps of military activities

**Recommendations:** No serious safety or environmental threats were observed during this site investigation. The open well may pose a concern as a liability due to the accessible underground structure. It may be appropriate to characterize the area more completely.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

**Investigators:** RCR  
CEH

**Date** 3 / 13 / 90  
**Time** 1049

**Site Location:** SW 1/4 Section 31, T 14N R 25E. PSN 72/82 is located on both sides of the small highway heading north from Vernita Bridge. Location is around a group of trees at the top of the hill north of Vernita Bridge.

**Indications of Problem:** ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☒ Soil Disturbance ☐ Trash Pile ☒ Documentation  
☐ Road Terminus ☐ Other ☐

**Site Narrative:** A few small disposal pits are located in the area west of the road. Some 5-gal and 1-quart oil cans are found both in the disposal pits and in small piles around the area. Packing materials from 4.7-in. gun shells is found in one pit.

Two plywood boxes are at this site. Boxes are approximately 2 by 4 ft and are buried approximately 18 in. deep. The top of the box is flush with the ground. One box contained empty 5-gal cans of lubricant and was covered with a plywood lid.

At the northeast corner of the site is a small firing range that was used for practice using 22-caliber firearms.

Gun emplacements and all above ground structures have been leveled and removed.

**Documentation:** ☐ None ☐ Attached  
☐ Contact: U. S. Army Corps of Engineer maps

**Recommendations:** Additional characterization of the site, especially the disposal areas may be appropriate.



**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

**Investigators:** RCR  
KJK

**Date** 3 / 22 / 90  
**Time** 1258

**Site Location:** SW 1/4 of SE 1/4, and SE 1/4 of SW 1/4 Section 6, T 14N R 25E. Site is approximately 600 yd east of H-83L, and north of the access road to the NIKE site.

**Indications of Problem:** ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☒ Documentation  
☒ Road Terminus ☐ Other ☐

**Site Narrative:** Site is similar in general layout to Radar and H-12R sites. Site is approximately 1/3 mi by 400 yd and bounded by a gravel road. At two locations, a set of four small concrete pads were found with bolts imbedded for bolting something onto. A third set of concrete pads is suspected but not located.

A few building locations were identified, but only one concrete foundation pad was found. No obvious disposal pits were identified.

This location coincides with army location maps identifying PSN 80. However, the layout of this position does not coincide with other antiaircraft positions.

**Documentation:** ☐ None ☐ Attached  
☐ Contact: U. S. Army Corps of Engineer maps

**Recommendations:** No hazards were identified during the walk-through of this site. After experience is gained from more intensive characterization efforts at other military sites, this site may be reinvestigated for hidden problems.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
JGL

Date 3 / 27 / 90  
Time 1005

Site Location: NW 1/4 of Section 1, T 14N R 25E. Just north of HWY 24.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☒ Documentation  
☒ Road Terminus ☐ Other ☐

**Site Narrative:** An anti-aircraft site. Well structure has been removed. A grease pit and oil rack are at the site. Potential exists for disposal of used oil and solvents. The oil rack has been used in recent years, and a small quantity of oil spilled on the ground. A well at the site is usable, and the site is reported to be used by the Bureau of Reclamation as a base for some field operations.

Several concrete foundation pads remain in the area. The disposal site for this position may be across HWY 24.

Documentation: ☐ None ☐ Attached  
☒ Contact: U.S. Army Corps of Engineers maps

**Recommendations:** No specific hazards were identified during this investigation. Additional characterization may, however, be appropriate.

Site Name MIL - PSN 90 Disposal Site

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
JGL

Date 3 / 27 / 90  
Time 1005

Site Location: W1/2 of Section 1, T 14N R 25E. South of HWY 24, opposite PSN 90.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☒ Soil Depression  
☒ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☒ Road Terminus ☐ Other ☐

Site Narrative: An old dumping ground, contains some military equipment such as tent parts and electronic parts. Also at this location are automobile parts. Several small pits are on site, some with trash in them. One excavation, approximately 10 by 15 by 4 ft deep had old sand bag material around the perimeter.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: No specific hazards were located. Additional investigation may, however, be appropriate.

Si

Investigators: RCR  
DSL

Site Location: NE 1/4

Coordinates:

**Indications of Problem:**

☒ Pipes in Ground  
☐ Soil Disturbance  
☐ Road Terminus ☐ Other

**Site Narrative:** Site  
separate locations. Root  
12 in. Observation thro  
10 ft. An excavation is  
indicates location of a  
partially buried wooden  
wide by 18 in. deep.

To the north west of each  
10 by 18 in. Bolts prot  
radar towers or large gu  
This site is similar in  
two sites do not contain

**Documentation:**

**Recommendations:** U  
may be filled to prevent  
fence onto the top.

Investigators: RCR

Site Location:

Coordinates:

**Indications of Problem:**

☒ Pipes in Ground

Site Narrative: Site  
separate locations. Root  
12 in. Observation thro  
10 ft. An excavation is  
indicates location of a  
partially buried wooden  
wide by 18 in. deep.

To the north west of each  
10 by 18 in. Bolts prot  
radar towers or large gu  
This site is similar in  
two sites do not contain

**Documentation:**

**Recommendations:** U  
may be filled to prevent  
fence onto the top.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

**Investigators**      RCR  
                            CBG

**Date**    11 / 16 / 89  
**Time**    1200

**Site Location**    NW 1/4 of Section 22, T 14N R 27E. Sand dunes 1/2 mi north of White Bluffs boat landing road, west of old highway.

**Indications of Problem:**    ☐ Plant Stress    ☐ Soil Discoloration  
☐ Pipes in Ground    ☐ Old Building Site    ☐ Soil Depression  
☐ Soil Disturbance    ☐ Trash Pile    ☐ Documentation  
☐ Road Terminus    ☒ Other Report of shrapnel in the area.

**Site Description**    Shrapnel was originally reported by a person visiting the recreation area. Location of findings is in an area of active sand dune and blowout activity. Report of shrapnel was confirmed, and area investigated by U.S. Army Explosive Ordnance Division (EOD) from the Yakima Firing Center. The EOD was assisted by personnel from Westinghouse Hanford Patrol and Environmental Engineering Group.

Shrapnel found by EOD personnel was thought to be from 175-mm rounds. This assumption is based upon the length of the rotating ring. The EOD personnel indicated that the area did not appear consistent with an impact zone. Indications that the area was not an impact zone include:

- no explosion craters were found
- relatively little shrapnel is found
- only relatively small pieces have been found
- no targets are in the area (artillery personnel like to shoot at targets)
- given the frequent recreational use of the area, nobody has found a shell, or a large piece of a shell.

The EOD personnel suggested that the area may be a demolition area, where old or dud rounds were disposed of by blowing them up.

Additional field investigations and reports from persons familiar with the antiaircraft batteries indicate that shrapnel may result from test firing at the batteries. An area of shrapnel may be found in the vicinity of each antiaircraft site. Although confirmation is not available, persons familiar with the antiaircraft batteries indicate that dud rounds would have been located and removed.



Documentation:

  X   None        Attached  
       Contact:                     

Recommendations: Periodic investigations should occur of known shrapnel areas to locate unexploded rounds (if present) that may be exposed by continued erosion.

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
SGW

Date 01 / 12 / 90  
Time 1032

Site Location: E 1/2 Section 7, T 14N R 28E

Coordinates: 278° from Power pole 12-3 (approximately 300 yd)  
193° from Observatory Peak - (Rattlesnake)  
66° from Concrete outfall - metal fuse part

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☒ Other scattered shrapnel in area

Site Narrative: Two pieces of aluminum or magnesium have been found in this area. One piece is a section of nose cone from a projectile. The other piece is not specifically identified, but metal type and gauge is consistent with parts of munitions found in shrapnel areas. No iron or steel shrapnel has been found near this location. However, soil in this area is stabilized by vegetation, and heavy material may not have been exposed on the surface by erosion.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: The small number of pieces found do not indicate an impact area for a large amount of ordnance. A brief search of the area with a metal detector may be appropriate to determine if a great deal of shrapnel is buried, but surface indications suggest a single round was fired into the area and exploded as planned.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
MRC

Date 1 / 12 / 90  
Time 1123

Site Location: N1/2 of SW 1/4 Section 2, T 14N R 26E

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☒ Other scattered shrapnel in area

Site Narrative: Two pieces of iron or steel shrapnel have been found in this area. Soil in this area is generally stabilized by vegetation. Shrapnel was found in a small area of sand dune activity. This area is south, between PSN 01 and PSN 04.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: The small number of pieces found do not indicate an impact area for a large amount of ordnance. A brief search of the area with a metal detector may be appropriate to determine if a great deal of shrapnel is buried, but surface indications suggest a single round or a few rounds were fired into the area and exploded as planned, or this may be the fringe of a shrapnel area.

Site Name MIL - Bridge Disposal Area

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
CEH

Date 3 / 13 / 90  
Time 1049

Site Location: SE 1/4 of SW 1/4 Section 31, T14N R 25E. Site is at the top of the hill north of Vernita Bridge. Area of concern is at the head of a small valley. Valley runs directly toward bridge.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: It is unclear if this site is a building location or a dump site for demolished building structures. It is also not clear if the origin is from the military or homestead activity. Best guess is that this area is a disposal area from the military.

At this location are remains of three or four wood frame structures. Some metal roofing material is present, window screen, railroad ties and structural lumber. Also at the site is general trash that appears to be of military origin. Trash includes personal items (tooth brushes, razors), bottles, and cans. Military oil cans are on site. It could not be determined if trash was in a pile on top of the ground, or exposed from a larger, underground pit.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: No specific hazards were identified at this site. Lumber and building materials may be removed. If a disposal pit is located, it may be investigated.

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
CDK

Date 02 / 06 / 90  
Time 1211

Site Location: E 1/2 Section 7, T 14N R 28E

Coordinates: 196° from Observatory Peak (Rattlesnake)  
318° from H-06C  
319° from pole #12-2-L  
204° from pole #12-3-L

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Cistern is approximately 6 ft in diameter by 9 ft deep and partially covered with wood. Some household items are nearby such as broken hoe, cans, barrel hoops. The cistern is in an area of mature sagebrush which suggests that the land was not cleared for agriculture.

The nose piece for an explosive projectile was found in the area. This is the second piece of aluminum shrapnel found at this general area. Piece was found approximately 100 yd east of power road, between poles 12-2 and 12-1.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: Cistern should be fenced or filled.



Site Name HOMESTEAD - Clay Pit Cistern

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
CEH

Date 02 / 20 / 90  
Time 11:48

Site Location: SE 1/4 of NE 1/4 Section 27, T15N R 27E. Located approximately 400 yd south and west of the clay pit used for lining irrigation canals.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Clay pit cistern located southwest of clay pit. Cistern is concrete lined, approximately 4 ft in diameter and filled with tumble weeds and junk nearly to the top.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: Site poses minimal hazard. Cistern may be fenced or filled.

Site Name HOMESTEAD - Cow Camp Cistern

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
RMM

Date 2 / 2 / 90  
Time 1023

Site Location: SE 1/4 OF NE 1/4 OF Section 26 T 15N R 27E. About 1 mi east of the clay pit, 1/4 mi south of the canal.

Coordinates: 174° from Radio Peak (Gable Mtn)  
212° from 105-N  
272° from Wahluke Relay

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☒ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Site appears to be an old homestead with an open, unfenced cistern. Cistern is round, approximately 4 ft in diameter, and concrete lined. It is filled with trash to within 12 in. of the top. Trash includes an unknown number of empty 1-gal "Warbex" cans, an externally applied pesticide for delousing cattle. Several small, clear bottles were present. Bottles were approximately 200 ml, with a narrow neck, and appear to be livestock antibiotic vials. Other domestic garbage was present.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: Cistern should be cleaned out and fenced or filled.

Site Name HOMESTEAD - Homestead Cistern

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
RPH

Date 12 / 22 / 89  
Time 1524

Site Location: SW 1/4 OF SW 1/4 OF Section 20 T 14N R 28 E

Coordinates: 174° from Radio Peak  
212° from 105 Bldg. 100N  
272° from Wahluke relay

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Approximately 50 yd east of power line road, at second pole south of intersection of power line (north-south) with power lines (east-west) from white bluffs. Cistern is in very good shape, 5 to 6 ft in diameter and 4 to 5 ft deep. An old wire fence is piled up around the cistern, making accidental falling unlikely.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: Trash should be cleared and cistern fenced and posted.

Site Name HOMESTEAD - Overlook Cistern

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
RMM

Date 1 / 16 / 90  
Time 1327

Site Location: Extreme SW corner of section 18, T 28E R 13N. 60 yd west of wood pole power line between pole 13 - 10 and 13 - 11. Site is approximately 1/4 mi north of the location that the line goes over the bluff to the river.

Coordinates: 323° from H-12C  
198° from Observatory Peak (Rattlesnake)

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☒ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: An old homestead site with two unfenced cisterns. One cistern is approximately 8 ft across by 14 ft deep; the other is 3.5 ft across by 4 ft deep. A few cans and pieces of metal trash indicate the location of a trash disposal area.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: Cisterns should be fenced and posted.

Site Name HOMESTEAD - Power Line Cistern

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
RPH

Date 12 / 22 / 89  
Time 1524

Site Location: SW 1/4 of section 20, T 14N R 28E. About 50 yd east of power line road at second pole south of intersection of north-south power line and east-west power line (from White Bluffs). Guess 8 to 10 mi east of White Bluffs ferry.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Cistern is in very good shape, 5 to 6 ft in diameter and 4 to 5 ft deep. The sides of the cistern are concrete, which appears to be about 1 in. thick. The cistern is partially filled with old metal food cans. There are many cans and broken bottles are in the area. The immediate area around the cistern has been fenced-off with old fencing wire and bailing wire. It is likely that homestead buildings were in the area, but no foundations or structures remain obvious.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: The pile of fencing around the cistern makes accidental falling or driving into the structure unlikely. A better fence and warning signs should be posted.

Site Name HOMESTEAD - Stock Tank Cistern

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
JGL

Date 1 / 10 / 90  
Time 1544

Site Location: NW 1/4 of SW 1/4 Section 29, T 14N R 28E. Power line road ends at the Wahluke Branch Wasteway. Near end of road, a large sand dune is east of the road. Cistern is at the southwest end of dune.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: A barbed wire corral encloses part of the sand dune. At the southwest corner of the corral is a concrete stock tank approximately 12 by 12 by 4 ft deep. The top of the tank is approximately 2 ft above the ground surface, making accidental falling in unlikely. A cased well is just north of the stock tank.

Many metal cans are in the vicinity, as well as lumber and timbers used for fencing and corrals. A homestead structure was not found.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: No serious hazards were found at this site. It may be appropriate to remove excess fencing wire that is in the area.



Site Name HOMESTEAD - Wagon Road Cistern

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
CDK

Date 02 / 06 / 90  
Time 1036

Site Location: NW 1/4 Section 6 T 13N R 28E

Coordinates: 318° from H-06C  
299° from Wahluke Relay  
193° from Observatory Peak (Rattlesnake)  
65° from Pole 10-8

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Little remains at this homestead site--some barrel hoops, wire, etc. The cistern remains and is approximately 9 ft in diameter. It is filled in to approximately 6 ft deep. The site is fenced, but warning signs have blown away. A possible disposal pit or outhouse location is approximately 30 yd east of cistern. Cistern is in an area of once-cleared land approximately 80 acres. An old wagon road runs through the area.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: Warning signs should be reposted.

Site Name HOMESTEAD - Wasteway Cistern

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
DSL

Date 01 / 25 / 89  
Time 1111

Site Location: SW 1/4 Section 22, T 15N R 27E

Coordinates: 304° from H-06C  
178° from Observatory Peak (Rattlesnake)  
197° from Wasteway Block Building (100 yd)

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☒ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Cistern is mostly destroyed and filled in. One wall is approximately 4 ft high and could pose a hazard to vehicles. Homestead trash in the area suggests possible disposal site.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: Cistern may be completely filled.

Site Name HOMESTEAD - Cistern

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
JGL

Date 02 / 21 / 90  
Time 1345

Coordinates: 305° from H-06C  
179° from Observatory Peak (Rattlesnake)  
95° from Quarter section marker  
26/35 T 15N R 27E

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Cistern is approximately 5 ft in diameter, mostly filled with soil and trash.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: No significant physical hazard is present.

Site Name HOMESTEAD - Cistern

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
JGL

Date 02 / 21 / 90  
Time

Coordinates: 302° from H-06C  
180° from Observatory Peak (Rattlesnake)  
219° from quarter section marker  
26/35 T 15N R 27E

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Cistern is approximately 5 ft wide and mostly filled with trash and tumbleweeds. Lumber in area indicated homestead.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: Cistern may be fenced or filled.

Site Name HOMESTEAD - Dune Homestead

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
CDK

Date 2 / 6 / 90  
Time 1432

Site Location: SW 1/4 of NE 1/4 Section 32, T 14N R 28E

Coordinates: 192° from Observatory Peak (Rattlesnake)  
214° from Radio Peak  
309° from H-06C

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Domestic trash disposal area 100 yd SW of trees. Barn or shed location 500 yd SW of trees. Parts of a flour mill found. Also parts of a carriage top and harness found. No cistern was located.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: No hazards were identified during this inventory. A homestead disposal area is present, but of doubtful concern as a hazard.

Site Name HOMESTEAD - Lonetree Homestead

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
CDK

Date 1 / 30 / 90  
Time 1144

Site Location: SE 1/4 of NW 1/4 Section 20, T13 N R 28E. Approximately 1/2 to 2/3 mi from "Savage" triangulation post on azimuth of 26.5°.

Coordinates: 320° from H-06C  
200° from Observatory Peak (Rattlesnake)  
206.5° from Savage Corner Post

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: One lone living cherry tree indicates the location of a homestead. No above-ground structures remain. Three small dead trees are on the site, and several metal cans and some broken glass indicate the location of a garbage pit. An old wagon road runs just south of the site.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: No hazards were identified at the site. A homestead disposal area is present, but of doubtful concern as a hazard.



Site Name OTHER - 2,4-D Burial Site

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
KAW

Date 12 / 19 / 89  
Time 1028

Site Location: SE 1/4 of NW 1/4 Section 35, T 14N R 27E. Site is at the foot of very tall sand hills that parallel the river.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☒ Documentation  
☐ Road Terminus ☒ Other signs at site

Site Narrative: Signs at the north and south end mark location of the site. No evidence of the site is found on the surface. Vegetation appears normal for the area. Surface of site is stabilized by vegetation.

Documentation: ☐ None ☐ Attached  
☐ Contact: WIDS

Recommendations: Site is included in operable unit 100-IU-3. Additional investigation and possible cleanup will be appropriate in the future.

Site Name OTHER - Asbestos Pipe Site

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
RPH

Date 12 / 22 / 89  
Time 1158

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

**Site Narrative:** Site is a sand blowout. Exposed at the surface are several pieces of concrete/asbestos pipe. A small amount of other construction trash is present such as pieces of concrete. No building locations are apparent at this location. Approximately 1/4 mi north of this site is the NIKE missile site H-12L. Demolition activities at H-12L are the most likely origin of the pipe material at this site.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

**Recommendations:** Pipe pieces should be removed and disposed.

Site Name OTHER - Asphalt Batch Plant

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

**Investigators:** RCR  
JGL

**Date** 3 / 30 / 90  
**Time** 1215

**Site Location:** SE 1/4 of NE 1/4 Section 4, T 14N R 26E. Approximately 1/4 mi south of HWY 24, at mile marker 56.

**Indications of Problem:** ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☒ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☒ Road Terminus ☐ Other ☐

**Site Narrative:** Site is a graveled area, approximately 2 acres in size. Several small piles of asphalt and gravel are present on site. Also an area 15 by 15 ft where concrete was dumped for disposal. Two pits are on site, 25 by 5 by 3 ft deep. No trash or disposed items were observed in the pits.

The area has the appearance of being used as a temporary location for mixing asphalt for paving operations.

**Documentation:** ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

**Recommendations:** No specific hazards were identified. Additional investigation may be appropriate.

Site Name OTHER - Coyote Bait Can

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
RMM

Date 1 / 16 / 90  
Time 1245

Site Location: SW 1/4 Section 18, T 13N R 28E. Between power pole 13-7 and 13-8, about 100 yd west of the Hanford Site power line. Approximately 3/4 mi north of the location where the line goes over the bluff to the river.

Coordinates: 324° from H-12C  
239° from Radio Peak (Gable Mtn)  
195° from Observatory Peak (Rattlesnake)

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☒ Other ☐

Site Narrative: Military ammunition container, approximately 5-gal, heavy gauge, rust-resistant metal. Can is square shaped, approximately 12 by 12 by 18 in. deep. Top has a vault type closure, and has "BAIT CAN" handwritten on top in indelible marker. Container is stamped "40 mm MK 1 MOD 8". Can is one-third buried in the ground. Bottom of the can is filled with plant litter and some insect bodies. The contents appear to be greasy or oily.

An anchor stake for a leg-hold trap is nearby, indicating that the can is probably in place as part of a coyote trapping operation, and not of direct military origin. A 5-gal fuel-type can is also nearby. This can is dry and rusted.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: No hazard appears to be associated with this site.

Site Name OTHER - Coyote Bait Station

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators: RCR  
SGW

Date 1 / 12 / 90  
Time 1445

Site Location: SE 1/4 of NE 1/4 Section 17, T 28E R 13N. Near eastern perimeter of Hanford site, 2 1/2 or 3 mi north of the White Bluffs, overlooking the river.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☒ Other Bones of many animals

Site Narrative: Many bones of animals are concentrated in an area approximately 10 acres in size. Fifty coyote skulls were counted. Bones of large animals were also present. Indications are that this is an old poison bait station. Bones appear to be many years old.

Reports from past residents of the area indicate one locally well-known trapper would commonly poison the carcass of a horse. Pelts of coyotes killed by the poison bait would be marketed. Findings at this site are consistent with these reports.

Documentation: ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

Recommendations: The site is many years old. No evidence is present of recent animal death. No action is recommended at this site.

Site Name Gravel Pit #47

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
JGL

Date 3 / 30 / 90  
Time 0932

Site Location: South of HWY 24 about 1/4 mile, at mile marker 47.  
Approximately 3 miles east of Vernita Bridge.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☒ Soil Depression  
☐ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: Two gravel pits are present at this site, and are apparently still in use. The smaller of the two pits (east side) has a pile of trash in it. Trash includes many cans and bottles, fencing wire, and spools from wire bundles. Two military paint cans, and a one quart oil can are present.

Documentation: ☒ None ☐ Attached  
☐ Contact: ☐

Recommendations: No hazards were identified at this location. No action is necessary,



Site Name OTHER - Gravel Pit #56

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

**Investigators:** RCR  
KJK

**Date** 02 / 09 / 90  
**Time** 1416

**Site Location:** SW 1/4 Section 33, T 15N R 26E. 200 yd north of Hwy 24 at mile marker 56.

**Indications of Problem:** ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☒ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

**Site Narrative:** No evidence of dumping was found at this location. Some strands of insulated wires were present, but appeared to be associated with military communication. Some pits are present that look like disposal pits, but no sign of trash or dumping can be found.

**Documentation:** ☒ None ☐ Attached  
☐ Contact: \_\_\_\_\_

**Recommendations:** No indication of hazards were located during this investigation.

Site Name OTHER - Hanford Firing Range

NORTH SLOPE  
Suspect Site Field Data Sheet

Investigators RCR  
CBG

Date 11 / 16 / 89  
Time 1100

Site Location N 1/2 Section 30, T 13N R 28E. East of the Columbia River against bluff. Across from the Hanford Townsite.

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☐ Old Building Site ☐ Soil Depression  
☒ Soil Disturbance ☒ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Description A bench has been cut out of the bluff about 100 yd long. Some 55-gal drums have been placed along the base of the bluff and along the bench. The barrels served as targets for 30- and 50-caliber and 37-mm rounds. This site served as a small arms firing range for Dupont and General Electric security forces until early 1950's. A burial trench several hundred yards west of the range contained metal boxes for 55-caliber rounds, 50-caliber brass, links from 50-caliber machine gun belts, and packing tubes for 37-mm rounds.

Several 30- and 50-caliber bullets had been found at the site. A few practice (nonexplosive) 37-mm projectiles have also been found. Reports indicate that two 37-mm rounds were found in the bullet impact area. One was determined by the finder to be a solid round (nonexplosive). The other one appeared different and was feared to be high explosive. The questionable round was reportedly reburied under the pile of soil excavated from the hill.

The soil pile described was excavated by U.S. Army Explosive Ordnance Division (EOD) personnel; however, no 37-mm round was found. Shallow excavation into the bullet impact zone produced three, 37-mm rounds. All three were confirmed by EOD to be nonexplosive solid rounds.

The EOD personnel found no evidence to suggest that the range had been used as a target for explosive rounds. Indications were:

- lack of impact craters
- lack of shrapnel
- Targets had not been blown apart, only holes punctured in them.

A second target area approximately 1/4 mi south of the main area was investigated by Westinghouse Hanford and U.S. Army Corps of Engineers personnel. Small pieces of shrapnel were located, indicating possible impact of explosive rounds. Persons familiar with the 37-mm rounds used at this time indicate that a nonexplosive round would fragment upon impact with a hard object such as a rock. It is unknown if fragments result from explosion or impact.

**Documentation:**

       None                             Attached  
  X   Contact:          BJR  

**Recommendations:** No imminent hazards were observed; however, it would be appropriate to more completely investigate the area. An area that deserves particular attention is the second, or southern target area. Although relatively few rounds appear to be fired at this location, small shrapnel fragments found on site may indicate explosive 37-mm rounds were fired at this location.

Site Name OTHER - Wahluke Schoolhouse

**NORTH SLOPE**  
**Suspect Site Field Data Sheet**

Investigators: RCR  
RW

Date 12 / 27 / 89  
Time 0933

Site Location: NE 1/4 of NE 1/4 Section 3, T 13N R 25E. North of  
Columbia River, across from B-C reactors

Coordinates: 129° from Stack at B Reactor (West corner of  
water inlet structure on river)  
96° from Table Rock - Gable Mountain  
70° from K-East reactor

Indications of Problem: ☐ Plant Stress ☐ Soil Discoloration  
☐ Pipes in Ground ☒ Old Building Site ☐ Soil Depression  
☐ Soil Disturbance ☐ Trash Pile ☐ Documentation  
☐ Road Terminus ☐ Other ☐

Site Narrative: The schoolhouse structure has been removed except for the  
steps. Steps have been preserved apparently because of a USGS survey marker  
imbedded in the top step. Marker indicates 469 ft above sea level. A level  
spot 50 yd north and east of the schoolhouse may indicate the location of a  
second building.

A survey of the immediate area indicated nothing that appeared hazardous to  
health, safety, or the environment.

Documentation: ☐ None ☐ Attached  
☒ Contact: ☐ RW or DW

Recommendations: No action.

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