



US Army Corps  
of Engineers  
Rock Island District



Defense Environmental Restoration Program  
for  
Formerly Used Defense Sites  
Ordnance and Explosives

## Archives Search Report

### Findings

for the former

**Victorville Precision Bombing Range #14**  
Victorville, California  
Project Number J09CA068001  
May 1998



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
for  
FORMERLY USED DEFENSE SITES

FINDINGS

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR

FORMER VICTORVILLE PRECISION  
BOMBING RANGE #14  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J09CA068001

May 1998

Prepared For

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ORDNANCE AND EXPLOSIVES  
 ARCHIVES SEARCH REPORT  
 FOR  
 FORMER VICTORVILLE PRECISION  
 BOMBING RANGE #14  
 VICTORVILLE, CALIFORNIA  
 PROJECT NUMBER J09CA068001

**ACKNOWLEDGMENTS**

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ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
FOR  
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BOMBING RANGE #14  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J09CA068001

**FINDINGS**

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1. INTRODUCTION

**a. Subject and Purpose**

(1) This report presents the findings of a historical records search and site inspection for ordnance and explosives (OE) presence located at the former Victorville Precision Bombing Range #14 (PBR #14) Victorville, California (see plate 1 for general location map). The investigation was performed under the authority of the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP-FUDS).

(2) This investigation focused on approximately 640.46 acres of land that were used by the War Department. The site was used as a precision bombing range from 1943 to 1948.

(3) The purpose of this investigation was to characterize the site for potential OE presence, to include conventional ammunition and chemical warfare material (CWM). This investigation was conducted by experienced ordnance experts through thorough evaluation of historical records, interviews and an on-site visual inspection results.

**b. Scope**

(1) This report presents the site history, site description, real estate ownership information, and confirmed ordnance presence (prior to and after site closure), based on available records, interviews, site inspections and analyses. The analyses provide a complete evaluation of all OE presence where ordnance presence has not been confirmed.

(2) For the purpose of this report, OE presence consists of live ammunition, live ammunition components, CWM or explosives which have been lost, abandoned, discarded, buried, fired or thrown from demolition pits or burning pads. These items were manufactured, purchased, stored, used, and/or disposed of by the War Department/Department of Defense. Such ammunition/components are no longer under accountable record control of any DOD organization or activity.

(3) **Expended** small arms ammunition (.50 cal or smaller), is **not** considered OE presence. OE further includes "explosive soil" which refers to any mixture in soil, sand, clay, etc., such that the mixture itself is explosive. Generally, 10 percent or more by weight of secondary explosives in a soil mixture is considered explosive soil.

2. PREVIOUS INVESTIGATIONS

a. **1991 Preliminary Assessment**

A Preliminary Assessment of Victorville (PBR) #14 was conducted under DERP-FUDS by the US Army Corps Of Engineers, Los Angeles District (CESPL) in 1991 (see document E-1). The Findings and Determination of Eligibility, dated 3 July 1991, concluded that the 640.46 acres located in San Bernardino County, California, had been formerly used by the War Department/Department of Defense. That report recommended referral to CEHND, now CEHNC, for an evaluation of possible ordnance presence. Table 2-1 represents an overview of the PA phase. Headquarters, Corps of Engineers, authorized an OE project number J09CA068001. No other projects were recommended at PBR #14.

TABLE 2-1 DERP-FUDS PRELIMINARY ASSESSMENT PROJECTS				
Project Number	DERP Category	Present Phase	Comments	Location
J09CA068001	OE	SI	Ordnance or Explosives	Entire site See Plate 2
	HTRW	No projects recommended		
	BD/DR	No projects recommended		

b. **Other Investigations**

There were no other investigations brought to the attention of inspection team during the investigation of this site.

3. SITE DESCRIPTION

a. **Existing Land Usage**

(1) The former Victorville Precision Bombing Range is located approximately 42 miles east of Victorville, California in San Bernardino County (see plates 1 and 2). The area consists of

approximately 640.46 acres. Table 3-1 and Plate 5 contains information for current property ownership and usage.

(2) The area is used for Off-Highway Vehicle (OHV) recreation, and camping, by the public. The 640.46 acres that made up the former target area is government owned and is managed by the Bureau of Land Management (BLM).

TABLE 3-1 LAND USAGE					
AREA	FORMER USAGE	PRESENT OWNER	PRESENT USAGE	SIZE/ACRES	COMMENTS
A	Bomb Target	Federal Government	Recreational	165.00	See Plate 5
B	Safety Zone	Federal Government	Recreational	178.00	See Plate 5
C	Remaining Land	Federal Government	Recreational	297.46	See Plate 5
TOTAL				640.46	

**b. Climatic Data**

(1) Rainfall is sparse in all months based on the climatology data for Barstow and Victorville, California. Precipitation is rare in the summer months and occurs mainly in the winter. Measurable rain occurs one day in four from late October to early April. In three years out of four, traces or less are reported for the entire months of June, July and August. June is usually the month of minimum rainfall (0.04 inch) on the average. January is usually the month of maximum rainfall (1.01 inch) on the average. The total annual precipitation is about five inches. Very small amounts of snow are recorded during the winter months. The average seasonal snowfall is about two inches. Snow on the ground is rare and the number of such days varies from year to year.

(2) The desert type climate is normally mild during the winter months and summers long and hot. Winters are quite warm despite an occasional series of days when the nightly temperature drops below freezing. In winter, the average temperature is 45 degree Fahrenheit with an average daily minimum during the winter months of 30 degrees Fahrenheit. In 1949 a temperature of 17 degrees Fahrenheit was recorded. In summer, the average temperature is 77 degrees Fahrenheit. The average daily maximum temperature is 97 degrees Fahrenheit. The highest recorded temperature in San Bernardino County was 116 degrees Fahrenheit on July 14, 1972 at Barstow.

(3) The average relative humidity in midafternoon is about 20 percent. Humidity is higher at night and the average at dawn is about 50 percent. Percentage of possible sunshine is 90 percent of the time in summer and 60 percent in winter. The mean annual temperature is 62 degrees Fahrenheit.

(4) The prevailing wind is from the west with an average windspeed, eight miles per hour, in the summer. The highest recorded windspeed is 87.4 miles per hour.

### **c. Topography**

(1) The Victorville PBR #14 Range is located in the Mojave Desert near Johnson Valley between small mountain masses that are part of the Fry Mountains.

(2) The area is nearly level to strongly sloping terraces with approximately a 0 to 15 percent slope, with elevations from approximately 2,000 feet to about 4,000 feet.

(3) The area has characteristics of many gullies and channels leading from the mountain ranges to the playas on the desert floor. The vegetation consists of mostly desert shrubs, annual forbs, and grasses (see document F-3).

### **d. Geology and Soils**

(1) The area in which the former range lies is made up from only one soil association. The Mohave-Adelanto variants association consists of a well drained, moderately slowly permeable, sandy loams, moderately deep to deep caliche, developed in stratified clay loam alluvium.

(2) The mohave variant soils have brown, platy soft mildly alkaline sandy loam surface soils and reddish brown, prismatic, very hard slightly acid, sandy clay loam subsoils.

(3) The adelanto variant soils have brown, granular, soft, moderately alkaline, sandy loam surface soils and reddish brown, blocky, slightly hard, moderately alkaline, sandy loam subsoils.

(4) These soils overlie grayish brown massive, very hard and extremely hard, moderately alkaline, calcareous, clay loam (caliche) substrata (see document F-3)

### **e. Hydrology**

(1) Due to the desert climate and rapid permeability of the soil, there are no streams on the site. No dry streams, gullies or rills were noted during the site inspection. The

Mojave River is the only watershed in the area. Due to the remoteness of the former site there are no reports indicating the depth of groundwater in the immediate area of PBR #14. However, other former Victorville PBR sites in the vicinity have reported groundwater depths of approximately 250 feet.

(2) The area in which the former range was located is in the groundwater flow systems of the Basin and Range area. The Basin and Range area is in individual basins or in two or more hydraulically connected basins through which groundwater flows to a terminal discharge point or sink.

(3) These sinks have essentially the same characteristics, the impermeable rocks of the mountain ranges serve as boundaries to the flow system, and the majority of the groundwater flows through the basin-fill deposits.

(4) In the areas where carbonated rocks underlie the basins, substantial quantities of water can flow between the basins through the carbonated rocks and into the basin-fill deposits. This water also is ultimately discharged by evapotranspiration.

(5) Where possible recharge to the basin-fill deposits originates in the mountain as snow melt, and, where the streams emerge from the bedrock channels, the water infiltrates into the alluvial fans and replenishes the basin-fill aquifer. Intense rains may provide some direct recharge to the basin-fill deposit, but, in most cases, any rainfall that infiltrates the soil is immediately evaporated or taken up as soil moisture (see document F-4).

#### **f. Natural Resources**

A letter from the US Fish and Wildlife Service indicates the threatened desert tortoise may be found in the area of PBRs. Contact should be made with the above mentioned department if any projects are warranted. This information is provided in Table 3-2 (see document F-1).

#### **g. Historical/Cultural Resources**

There are no recorded sites in the area that made up the former PBR #14. However, there are rock arts recorded in the vicinity. Coordination should be done with the California Archaeological Information Center if any projects are recommended in this area (see document F-2 and table 3-2).

**TABLE 3-2  
NATURAL & CULTURAL RESOURCES**

Resource Classification	Type	Federal Status*
Wildlife	Reptiles Desert Tortoise	Threatened
Vegetation		None Listed
Historical/ Cultural	Prehistoric Historic	Coordinate with SHPO

**4. HISTORICAL ORDNANCE PRESENCE**

**a. Chronological Site Summary**

(1) In 1943 approximately 640.46 acres, was transferred from the Department of Interior to the War Department by Public Land Order 125 (see document F-5). The land was located approximately 36 mile southeast of the town of Barstow, California in San Bernadino.

(2) The land was to be used as a precision bombing range for training pilots stationed at Victorville Army Air Base (see document G-1).

(3) In 1947 it was determined by the War Department that no further need exists for the real estate of PBR #14 located southeast of Barstow, California (see documents G-2).

(4) The site was transferred by letter to the Department of the Interior in 1948 with custody assumed in 1954 (see documents G-2).

**b. Ordnance Related Records Review**

(1) A documents search was conducted by the site inspection (SI) team to obtain ordnance related records relevant to the former Victorville Precision Bombing range #14. Research sites included, but were not limited to, the National and State Archives; state, county, and local libraries; historical centers and societies; local newspapers; state, county, and local law enforcement agencies; and current owners of the former site (see Appendix A for a complete listing of contacts).

(2) Document F-5 was Public Land Order 125 withdrawing lands to be used by the War Department for bombing targets. This document has attached a clearance certificate dated 22 March 1948 and a deduinding report dated 4 February 1948 for 11 of the

Victorville Bombing Targets. These reports indicate that M38A2 practice bombs, 32 dud flare bombs and M26 aircraft parachutes were found and destroyed during this deduoding action. These reports also declare the PBRs free from explosive contamination.

(3) Document F-6 is the history of Victorville Army Air Field for November and December 1944. This document shows that the Army airfield maintained M38A2 practice bombs, M47A2 incendiary bombs, concrete bombs M85 and various small arms ammunition.

(4) Document G-1 and G-2 are land acquisition and real property management property documents. These documents verify acquisition, acreage location and surplus date of the property in question.

(5) Document K-1 is a 1989 aerial photo that has been computer enhanced to show the approximate layout of the Victorville PBR #14.

(6) Document L-1 is a drawing of the Victorville Army Air Field Bombing Ranges dated September 1945. This map was utilized in the drafting of the plates in this report.

### **c. Interviews With Site Related Personnel**

(1) Efforts to locate individuals who had served or had first hand knowledge of the Victorville Bombing Ranges including PBR #14 were not highly successful. Personal interviews were conducted with local individuals that had worked at the Victorville Army Air Force Base during the war years, but they did not know of the bombing ranges. Bureau of Land Management representatives, US Fish and Wildlife Service employees, and local law enforcement were also interviewed to obtain information about PBR #14.

(2) There were interviews with persons that had knowledge of all the PBRs as a bombing range or if ordnance had ever been found in the area (See documents I-1 through I-7).

(3) Detective Bill Myers and Bob Hall from San Bernardino Sheriff's Department were shown a map of the Victorville PBR targets. They stated that a 100 lb practice bomb had been recovered from PBR #14 area. They normally received 200 calls a year on military ordnance because of the large military presence in the area. They said most of the ordnance had been moved numerous times and thus could not say for sure where it was originally discovered (see document I-1).

(4) Personnel from the U.S. Army EOD Team at Fort Irwin and the U.S. Air Force EOD Team at Edwards AFB were also

interviewed. They had no knowledge of any OE being discovered on any of the Victorville PBR (see documents I-2 and I-3).

(5) Interviews from two former military personnel that were stationed at Victorville Flying School both stated that they had only seen 100 pound sand filled practice bombs dropped on the PBRs. However, they could not identify the specific targets (see documents I-4 and I-5).

(6) Mr. Bronson, supervisor for the Law Enforcement Rangers of the Bureau of Land Management, commented that when ordnance was found they notified Ft. Irwin EOD for removal actions. He did not pinpoint any specific areas with the exception that he thought ordnance items had been found near Target N-3 (see document I-6).

## 5. SITE ELIGIBILITY

### **a. Confirmed Formerly Used Defense Site**

Former land usage by the War Department was previously confirmed for the entire site as summarized in section 4a of this report. The 640.46 acres of the former Victorville PBR #14 was used by the War Department/Department of Defense as a practice bombing range. Historical documents and personal interviews confirm this finding. No ownership or usage of any part of the Victorville PBR #14 remains with the Department of Defense (DOD) (See documents E-1, G-1, G-2, plate 1 and 2).

### **b. Potential Formerly Used Defense Site**

There are no additional acres found during this investigation that were utilized to support this target.

## 6. VISUAL SITE INSPECTION

### **a. General Procedures and Safety**

(1) During the period of 20 January through 28 January 1998, members of the Assessment Team traveled to the former Victorville PBR #14. The primary task of the team was to assess OE presence and potential. Due to its former usage as a precision bombing range by the War Department/Department of Defense, as stated in the INPR. Site inspection was limited to non-intrusive methods; i.e. subsurface sampling was not authorized nor performed.

(2) Real estate rights-of-entry were not obtained nor deemed necessary, as the land in question is public land and accessible to the team.

(3) A site safety plan was developed and utilized by the assessment team to assure safety from injury during the site inspection of this facility. Prior to the inspection, a briefing was conducted which stressed that OE should only be handled by military EOD personnel (Reference B-1).

(4) Prior to the site visit, a thorough review of all available reports, historical documents, texts, and technical ordnance reference materials gathered during the historical records search portion was made to ensure awareness of potential ordnance types and hazards.

(5) The team traversed the target area first in a vehicle and then on foot. The team stopped at various points in the PBR #14 to observe fragments of bombs within the target area.

(6) The site is being broken down into sub-sites for this report: i.e., Area A is the target area, Area B is a buffer zone, and Area C is remaining land (see plate 4).

#### **b. Area A: Target Area**

(1) This area is approximately 165 acres in size. The area was designated as a practice bombing range in 1942 and relinquished in 1948 to the Department of the Interior. This area is BLM properties. The site is used at the present time for recreational camping, and OHV for the public (see photos J-1, J-2 plate 3 and plate 4).

(2) There was visual evidence of a target, three target rings as shown in document K-1, photos J-3 and J-4 are still remaining (see plate 3).

(3) As shown in photos J-5, J-6 and J-7 (see plate 3) there was debris from M38A2 practice bombs and M85 concrete bombs everywhere within area A (heavier amounts closer to the center of the target). On the north and on the northwest sides of the third target ring, 2 M124, 250lb practice bombs were found (see photo J-8 and plate 3). These were the only two of these items found.

#### **c. Area B: Buffer Zone**

(1) This area consists of approximately 178 acres that surrounds the original target area. The area is BLM property. It is also used at the present time for recreational camping, and OHV for the public.

(2) The only items found in the area were parts of practice bombs, spotting charge end caps, rusted body pieces and

suspension lugs. The farther from the target center the less amounts of debris were found.

**d. Area C: Remaining Land**

This remaining 297.46 acres surrounds the outside of the buffer area and the target (see plate 4). It is also BLM property. As with area A and B it is also used at the present time for recreational camping, and OHV for the public. There was no residue found in this area by the inspection team during this inspection

7. EVALUATION OF ORDNANCE HAZARDS

**a. General Procedures**

(1) This land was evaluated to determine confirmed, potential, or uncontaminated ordnance presence. Confirmed ordnance and explosive (OE) presence is based on verifiable historical records evidence or direct witness of OE items (with explosive components and/or inert debris/fragments) since site closure. Additional field data are not needed to identify a confirmed site.

(a) Verifiable historical record evidence is based on OE items actually seen on site since site closure and authenticated by: historical records (Archive Records, Preliminary Assessment Reports, Site Investigation Reports), local fire departments and law enforcement agencies/bombs squads, military Explosive Ordnance Disposal (EOD) Units, newspaper articles, photographs, or maps.

(b) Direct witness of OE items consists of the site inspection team(s) and other credible witnesses as determined by the ASR Research Team Leader (landowners, workers on-site, soldiers who served there, etc.) verifying that they have seen OE presence on the surface or subsurface since site closure.

(2) Potential Ordnance and Explosives (OE) Presence is based on a lack of confirmed OE presence. Potential OE presence is inferred from records, present day site features, non-verifiable direct witness, or indirect witness. Additional field data are needed to confirm potential OE sites.

(a) Inference from historical records is based on no OE items actually seen on site since site closure and would include documentation (records, aerial photographs, maps) indicating possible OE presence derived from common practice in production, storage, use, or disposal at that time and from records indicating known OE usage.

(b) Inference from present day site features would be the indication of possible OE presence from such obvious features as target circles, depressions, mounds/backstops, OB/OD areas/pits, etc.

(c) Indirect witness would be people who have stated that they have heard of OE presence on-site (hearsay evidence).

(3) Uncontaminated ordnance areas are based on a lack of confirmed or potential ordnance evidence. All historical records evidence and present day site inspections do not indicate confirmed or potential ordnance presence. There is no reasonable evidence, either direct or inferred, to suggest present day ordnance presence. Additional field data are not needed to assess uncontaminated ordnance site.

**b. Area A: Target Area**

(1) Based on materiel collected during the ASR and the definition of OE this area is considered a **confirmed** area of OE presence. This is based on historical documentation and visual evidence. The OE SI team found ammunition items within the target area.

(2) The ordnance found in this area was expended practice bomb parts, including spotting charge parts. There were no complete rounds found during this investigation. There were no reports of any complete items ever being found in this area. The items were inert and were not hazardous, they appeared to have already functioned as intended (See documents D-1 through D-5, J-4 through J-8 plate 3 and plate 4).

**c. Area B: Buffer Zone**

(1) Area B is a **confirmed** area of OE presence based on historical documentation, visual evidence and the definition of OE. The OE SI team found ammunition items within the target area.

(2) The ordnance found in this area was expended practice bomb parts, including spotting charge parts. There were fewer parts found in this area than in the above mentioned area. There were no complete rounds found during this investigation. There were no reports of any complete items ever being found in this area. The items were inert and were not hazardous, they appeared to have already functioned as intended (See documents D-1 through D-5, J-4 through J-8 plate 3 and plate 4).

**d. Area C: Remaining Land**

(1) The outer area shown in plate 4 is a **potential** area based on historical documentation, no visual evidence and the definition of OE. The OE SI team found no ammunition items or parts within the target area.

(2) This area has the potential to have some of the same above mentioned items within its boundaries due to the close proximity to the buffer area and target. There were no items discovered during this investigation.

(3) All land outside of the project areas shown on plate 4 should be considered uncontaminated.

**8. SITE ORDNANCE TECHNICAL DATA**

**a. End Item Technical Data**

(1) While no comprehensive list of the exact types of ammunition used at the former Victorville PBR #14 could be located, the range was a practice bombing range. The general fillers of the munitions used on the target area were sand or water filled. No evidence exists that chemical warfare materials were used at this site.

(2) Table 8-1, has been developed to establish a list of potential ordnance items and their fillers that could exist at surface or sub-surface levels within the former site. This table has been developed based on historical documentation and circumstances under which this area was used. The model numbers used to delineate possible types are speculative and are based on common models that existed during the time period the site was in existence.

TABLE 8-1 END ITEM TECHNICAL DATA			
ITEM	MODEL/TYPE	FILLER/WEIGHT	FUZE/TYPE
Bomb, practice, 100 pound	M38A2	Body - sheet metal Filler - sand Spotting charge - M1A1	Unknown
	M85	Body - concrete with sheet metal tail assembly Spotting charge - M1A1	None
Bomb, chemical, 100 pound (metal parts)	M47A1*, M47A2*	Body - sheet metal Filler* - sand	Unknown*
Bomb Practice 250 lb	M124	Body - sheet metal Filler - gravel/concrete sand Spotting charge - M39A1 Conical tail fin Assemble	M193
Charge, spotting	M1A1, M39A1	Filler - 3 lbs black powder	N/A
* The M47A1 and M47A2 chemical bombs used at Victorville PBR ##14 were configured as practice bombs and inertly filled with sand. It is unknown if inert fuzes were used in this configuration.			

**b. Chemical Data of Ordnance Fillers**

Table 8-2, has been developed to provide information on the explosive/chemical compounds used in the ordnance cited in Table 8-1.

TABLE 8-2 CHEMICAL DATA OF ORDNANCE FILLERS		
FILLER	SYNONYM(S)	CHEMICAL FORMULA
Black Powder		
75% Sodium Nitrate		NaNO <sub>3</sub>
10% Sulfur		S
15% Charcoal		C

9. OTHER ENVIRONMENTAL HAZARDS

**a. Hazardous, Toxic, and Radiological Waste**

There was no evidence found to suggest the presence of any HTRW which could be attributed to Department of Defense usage. It is therefore recommended that no HTRW project be pursued for this site.

**b. Building Demolition/Debris Removal**

There was no evidence found to suggest the presence of any building or debris presence which could be attributed to Department of Defense usage. It is therefore recommended that no BD/DR project be pursued for this site.

ORDNANCE AND EXPLOSIVES  
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APPENDIX A

REFERENCE SOURCES

**APPENDIX A  
REFERENCE SOURCES**

<b>Organizations</b>	<b>Name</b>	<b>Telephone</b>	<b>Nature of Support</b>
<b><u>GOVERNMENT SOURCES</u></b>			
<b>FEDERAL AGENCIES</b>			
<b>Department of Defense</b>			
Department of Defense Explosive Safety Board (DDESB) 2461 Eisenhower Avenue Alexandria, VA 22331-0600	Computer Search	(703) 325-8624	No Information
Defense Library on Disk (DLOD) Pentagon Library, RM 1A518 Washington, DC 20301-6000	Computer Search	(703) 697-4658	No Information
Defense Technical Information Center. (DTIC) 8725 John J. Kingman Rd. Suite 0944 Fort Belvoir, VA 22304-6145	Computer Search	(703) 427-8274	No Information
Center of Military History ATTN: DAMH-RAS 1099 14th St. N.W. Washington, DC 20005-3402	Staff	(202) 761-5416	See Appendix B, Section II, Parts A and B
<b>Department of the Army</b>			
759 <sup>th</sup> Ord Co. Building 520 Ft. Irwin, CA 92310	SSG Salet	(760) 380-4092	No Information See Conversation Record I-3
95 <sup>th</sup> CEG/CED Edwards AFB, CA.	MSGT Hepner TSGT Glinka	(805) 277-2162	No Information See Conversation Record I-4

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Organizations	Name	Telephone	Nature of Support
<u>GOVERNMENT SOURCES</u>			
<b>FEDERAL AGENCIES</b>			
Department of Army (continued)			
Defense Logistics Studies (DLSIE) Information Exchange Fort Lee, VA 23801	Computer Search	(804) 734-4007	No Information
National Imagery and Mapping Agency 5801 Tabor Ave. Philadelphia, PA 19120-5098	Bill Harris	(800) 826-0342	New Aeronautical charts
IOC Historical Office ATTN: AMSIO-EAH Bldg 390, Rock Island Arsenal Rock Island, IL 61299	Tom Slattery	(309) 794-1450	No Information
Rock Island Arsenal Museum ATTN: AMSIO-PAC-M, Bldg 60 Rock Island, IL 61299	Chris Leinicke	(309) 794-3518	No Information
U.S. Army Chemical School Fisher Library Bldg. 1081 Fort McClellan, AL 36205	Richard Pastorett	(205) 848-4414	No Information
U.S. Military History Institute Library Carlisle Barracks Bldg. 22 Carlisle, PA 17013	Dennis Vetock John Sloanaker	(717) 245-3611	No Information
U.S. Army Technical Center for Explosives Safety ATTN: SIOAC-ESL Savanna, IL 61074-9639	FUDS Reference Library	(815) 273-8867/ 8789/8825	No Information

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<b>FEDERAL AGENCIES</b>			
<b>Department of Army (continued)</b>			
U.S. Army Technical Center for Explosives Safety Library ATTN: SIOAC-ESM Savanna, IL 61074-9639	Chris Holiday	(815) 273-8772	No Information
U.S. Military History Institute Archive Branch Carlisle Barracks Carlisle, PA 17013-5008	Richard Sommers	(717) 245-3601	No Information
U.S. Military History Institute Photo Archives Carlisle Barrackd Carlisle, PA 17013	Mike Winey	(717) 245-3434	No Information
US Army Chemical & Biological Defence Command Aberdeen Proving Ground, MD 21010-5423	Kathleen Ciolfi	(410) 679-4430	No Information
U.S. Army Ordnance Museum ATTN: ATSL-DOS-M Building 2601 Aberdeen PG, MD 21005-5201	Dr. Atwater Roger Godin	(410) 278-3602	No Information
USACE-Los Angeles District Southern California Area Office 10845 Rancho Bernardo Road Rancho Bernardo, CA 92127	Jim Walker B.J. Allen	(619) 674-6789/ 6765 Fax 674-6781	Referrals

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<b><u>GOVERNMENT SOURCES</u></b>			
<b>FEDERAL AGENCIES</b>			
<b>Department of Army (continued)</b>			
USACE-Los Angeles District 911 Wilshire Blvd. Los Angeles, CA 93043	Deb Castens Greg Boghossian Jeff Armentrout	(213) 452-3719/ 3722	Historical Background
Utilization of Command Installations (Monthly Progress Report)	Publication		No Information
Army Air Force Installations Directory Continental United States	Publication		No Information
Development of AAF Base Facilities in The U.S. 1939-1945	Publication		No Information
<b>Department of the Airforce</b>			
Air Force Historical Research Agency 600 Chennault Drive Maxwell AFB, AL 36112	Joe Caver	(334) 953-2395	No Information
(AFHRA) Air Force Historical Research Agency 600 Chennault Drive Maxwell AFB, AL 36112	IRIS System	(334) 953-2437	Microfilm Rolls No Information
Air Force Bases (Active Air Force Bases within the USA On 17 September 1982)	Publication		No Information
Air Force Times 6883 Commercial Drive Springfield, VA 22159	Locators Staff	(800) 368-5718	No Information

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<b>FEDERAL AGENCIES</b>			
<b>Department of the Air force (continued)</b>			
Air University Library 600 Chennault Circle Maxwell AFB, AL 36112	Leroy Bell	(334) 953-2888	No Information
<b>Department of the Navy</b>			
Naval Construction Battalion Center (NCBC) ATTN: Code 10H-NAVFAC Historian 10 23 <sup>rd</sup> Ave. Port Hueneme, CA 93043	Dr. Vince Transano Carol Marsh	(805) 982-5913	No Information
Naval Construction Battalion Center (NCBC) Technical Information Center ATTN: Code 72, 1100 23 <sup>rd</sup> Avenue Port Hueneme, CA 93043	Brian Thompson	(805) 982-1124	No Information
Marine Corps Historical Center Bldg 58, Washington Naval Yard Washington, DC 20374	Staff	(202) 433-3483	See Appendix B Section II Parts A and B
Naval Construction Battalion Center (NCBC) Civil Engineering Support Office ATTN: Code 15, 1000 23 <sup>rd</sup> Ave. Port Hueneme, CA 93043	Mona Leon-Guerrero	(805) 982-3057	No Information
NAVEODTECDIV Technical Library 2008 Stump Neck Road Indianhead, MD 20640-5070	Betty Arbogast	(301) 743-6834	No Information

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<b>Organizations</b>	<b>Name</b>	<b>Telephone</b>	<b>Nature of Support</b>
<b><u>GOVERNMENT SOURCES</u></b>			
<b>FEDERAL AGENCIES</b>			
<b>Department of the Navy (continued)</b>			
Washington Navy Yard Operational Archives Bldg. 57 Washington, DC 20374	Staff	(202) 433-3171	See Appendix B, Section II, Parts A and B
USMC, EOD Unit, MCAGCC 29 Palms, CA 92272	Major Allston	(760) 830-7215/ 6885	No Information
<b>FEDERAL AGENCIES</b>			
<b>National Archives Federal Records Administration</b>			
NARA-Pacific Region (Laguna Niguel) 24000 Avila Rd. Laguna Niguel, CA 92607	Suzanne Dewberry	(714) 360-2641	See Appendix B, Section III, Parts A and B
NARA-Pacific Region (San Francisco) 1000 Commodore Drive San Bruno, CA 94066-2350	Bill Greene Lisa Miller	(415) 876-9015 Fax 876-9233	See Appendix B, Section III, Parts A and B
Washington National Records Center 4205 Suitland Rd Suitland, MD 20409	Staff	(202) 707-5522	See Appendix B, Section II, Parts A and B
NARA- Archives II (Cartographic/Architectural Branch) 8601 Adelphi Rd College Park, MD 20740	Staff	(301) 713-7040	See Appendix B, Section II, Parts A and B

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<b>National Archives Federal Records Administration (continued)</b>			
NARA- Archives I (Modern Military) Pennsylvania Ave & 7 <sup>th</sup> Washington, DC 20408	Staff	(202) 501-5385	See Appendix B, Section II, Parts A and B
NARA- Archives II (Still Picture Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-6660	See Appendix B, Section II, Parts A and B
NARA- Archives II (Civil Reference Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7250	See Appendix B, Section II, Parts A and B
NARA- Archives II (Motion Picture Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7060	See Appendix B, Section II, Parts A and B
NARA- Archives II (Textural Reference Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7250	See Appendix B Section II, Parts A and B
NARA- Archives I (Old Military) Pennsylvania Ave & 7 <sup>th</sup> Washington, DC 20408	Staff	(202) 501-5390	See Appendix B, Section II, Parts A and B

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<b>FEDERAL AGENCIES</b>			
<b>National Archives Federal Records Administration (continued)</b>			
NARA- Archives I (Navy) Pennsylvania Ave. & 7th Washington, DC 20409	Staff	(202) 501-5671	See Appendix B, Section II, Parts A and B
National Archives, Suitland Branch (Civil and Military) 4205 Suitland Road Suitland, MD 20409	Staff	(314) 538-4085	See Appendix B, Section III, Parts A and B
National Personnel Records Center 9700 Page Ave St. Louis, MO 63132	Wilson Sullivan Bill Siebert	(314) 538-4085	See Appendix B, Section III, Parts A and B
<b>Library of Congress</b>			
Library of Congress Geography and Map Division Washington, DC 20536	Staff	(202) 707-5522	See Appendix B, Section II, Parts A and B
<b>Smithsonian Institution</b>			
Smithsonian National Air And Space Museum Historical Research Division Washington, DC 20560	Staff	(202) 357-3133	See Appendix B, Section II, Parts A and B

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<b><u>GOVERNMENT SOURCES</u></b>			
<b>FEDERAL AGENCIES</b>			
<b>Department of Agriculture</b>			
U.S. Department of Agriculture Aerial Photography Field Office P.O. Box 30010 2222 West 2300 South Salt Lake City, UT 84131-0010	Sherrie Holyoak	(801) 975-3503	Aerial Photos after 1956
U.S. Department of Agriculture Consolidated Farm Service Agency 44811 Date Avenue West Lancaster, CA 93534	Doug Brand Holleen	(805) 942-9549	Aerial Photos from 1959, 1965 and 1971
U.S. Department of Agriculture Natural Resources Conservation Service P.O. Box 788115, Bldg. 1456, Griffin Rd Twenty-nine Palms, CA 92278	John Rule	(760) 830-7011	Aerial Photos from 1982
U.S. Department of Agriculture Natural Resources Conservation Service 18484 Highway 18, Suite 195 Apply Valley, CA 92307	Jackie Lindgren Rick Aguayo	(760) 242-2906 Fax 242-0203	Soil Survey Information
<b>Department of Commerce</b>			
NOAA, Air Force Weather Service 151 Patton Avenue, Room 120 Ashville, NC 28801	Janet Wall	(704) 271-4404	Local Climatological Data
NOAA, National Climatic Data Center Federal Bldg. Ashville, NC 28801	Sam McCowan Yolanda Goosch	(704) 271-4272	Climatological Data

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<b>Organizations</b>	<b>Name</b>	<b>Telephone</b>	<b>Nature of Support</b>
<b><u>GOVERNMENT SOURCES</u></b>			
<b>FEDERAL AGENCIES</b>			
<b>Department of the Interior</b>			
Bureau of Land Management 6221 Box Springs Blvd. Riverside, CA 92507	John Keyes	(909) 679-5383	No Information
Bureau of Land Management Barstow Resoucee Area 150 Coolwater Lane Barstow, CA 92311	Tim Read  Jerry Bronson	(619) 255-8700	Real Estate Records  See Conversation Record I-2
U.S. Geological Survey EROS Data Center Sioux Falls, SD 57198	Staff	(605) 594-6151 Fax 594-6589	Aerial Photos
U.S. Geological Survey, (ESIC) Box 25046, Bldg. 810 Denver Federal Center Denver, CO 80225	Paula Erickson Steve Reiter	(303) 202-4200 Fax 202-4188	Aerial Photos
USGS, Denver Federal Center P.O. Box 25286 Denver CO 80225	Roger Compton	(303) 202-4700	Topographic Quad Maps
U.S. Fish and Wildlife Service Ecological services 2493 Portola Rd., Suite B Ventura, CA 93003	Ray Branfield	(805) 644-1766	Endangered/Threatened Species

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<u>GOVERNMENT SOURCES</u>			
<b>State</b>			
California State Archives 1020 East O St. Sacramento, CA 92415	Mr. Metzger	(916) 653-2246	No Information
California State Historic Preservation Office San Bernardino Archaeological Information Center 2024 Orange Tree Lane Redland, CA 92374	Robin Laska	(909) 792-1497 Fax 798-8585	Archaeological/Historical Information
California State Library California History Section 914 Capitol Hall Library and Courts Bldg. Sacramento, CA 94237	John Gonzales Sybylle Zemitis	(916) 654-0176 Fax 654-8777	No Information
California State University San Bernardino Library 5500 University Parkway San Bernardino, CA 92407	Staff	(909) 880-5084 Fax 880-7084	No Information
California State Library Government Documents Section 914 Capital Hall Library and Court Bldg. Sacramento, CA 94237-0001	Brent Murphy	(916) 654-0069	No Information
State of California Department of Fish and Game 1416 9 <sup>th</sup> Street Sacramento, CA 95814	Internet		Endangered Species Information

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<b>State (continued)</b>			
<b><u>GOVERNMENT SOURCES</u></b>			
University of California P.O. Box 19557 Irvine, CA 92110	Staff	(714) 824-6836	No Information
University of California Government Documents Dept. P.O. Box 19557 Irvine, CA 92110	Jeff Schneidewind Kay Collins	(714) 824-7234	No Information
University of California Archives P.O. Box 19557 Irvine, CA 92713	Mary Ellen Goddard	(714) 824-7193	Provided Referrals
<b>Local</b>			
San Bernardino County 172 West 3 <sup>rd</sup> St. San Bernardino, CA 92415	Staff	(909) 387-8307	Plat maps
San Bernardino County Flood Control 825 East 3 <sup>rd</sup> St. San Bernardino, CA 92415	Gary Duncan	(909) 387-2529	No Information
San Bernardino County Library Victorville Branch 15011 Circle Drive Victorville, CA 92392	Mr. Booker	(619) 245-4222	No Information
San Bernardino County Library Lucerne Valley Branch 33103 Old Woman Springs Rd Lucerne Valley, CA 92356	Staff	(619) 248-7521	No Information

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<b>Organizations</b>	<b>Name</b>	<b>Telephone</b>	<b>Nature of Support</b>
<b><u>GOVERNMENT SOURCES</u></b>			
<b>Local (continued)</b>			
San Bernardino County Museum 2024 Orange Tree Lane Redlands, CA 92374	Robin Laska Noella Benvenuti Pamela Frost	(909) 798-8570	No Information
San Bernardino County Planning 385 North Arrowhead Ave. San Bernardino, CA 92415	Marla Taub	(909) 387-4131	No Information
San Bernardino County Sheriff's Dept. Barstow Station 225 E Mountainview Barstow, CA 92311	SGT. Jecusco	(760) 256-4841	No Information
San Bernardino County Sheriff and Bomb Squad 655 East 3 <sup>rd</sup> St. San Bernardino, CA 92415	Tom Alsky Bill Myers Bob Hall	(909) 387-3598/ 3606/3601 Fax 387-3455	No Information See Conversation Record I-1
San Bernardino Public Library 555 West 6 <sup>th</sup> St. San Bernardino, CA 92415	Chris Shovey	(909) 381-8208	No Information
<b><u>NON GOVERNMENT SOURCES</u></b>			
<b>National</b>			
Coast Defense Study Group, Inc. 731 Baltimore Pike Bel Air, MD 21014	Publication		No Information
Northern Illinois Library System 4034 East State St. Rockford, IL 61108	Staff	(815) 229-0330	No Information

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<b>Organizations</b>	<b>Name</b>	<b>Telephone</b>	<b>Nature of Support</b>
<b><u>NON GOVERNMENT SOURCES</u></b>			
<b>National</b> (continued)			
Council on America's Past 518 Why Worry Lane Phoenix, AZ 85021	Heliogram Publication	(800) 398-4693	No Information
Knight-Ridder Information Inc. 2440 El Camino Mountain View, CA 94040	Staff	(800) 334-2564	No Information
On-line Computer Library Center 6565 Frantz Rd Dublin, OH 43017-3395	Staff	(800) 848-5878	No Information
Scientific & Tech Info Library System 689 Discovery Drive Huntsville, AL 35806	Staff	(205) 922-9820	No Information
World War II sites in The U.S.	Richard Osborne		No Information
California Historical Society 678 Mission Street San Francisco, CA 94105	Beth Graham	(415) 357-1848 Fax 357-1850	No Information
San Bernardino Visitor and Convention Bureau 201 North E. Street San Bernardino, CA 93603	Christine	(909) 889-8937	No Information
State Historical Society Of Wisconsin Library 816 State Street Madison, WI 53706	Staff	(608) 264-6534	No Information

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Organizations	Name	Telephone	Nature of Support
<u>NON GOVERNMENT SOURCES</u>			
<b>Local</b>			
19446 Corwin Rd Apple Valley, CA 92307	Edward Laska	(619) 242-5746	No Information
40 Oak Shadow Ct. Baltimore, MD 21228	Owen Cooper	(410) 747-5991	No Information
Arda Haenszal 809 Standish Way Redlands, CA 92373	Local Historian	(909) 798-0550	No Information
John Darr Cheyenne, WY	Knowledgeable Person	(307) 635-2924	No Information
John Lynch 518 Why Worry Lane Phoenix, AZ 85021	Historian/Author	(602) 249-3974	No Information
Mojave Historical Society P.O. Box 68 Victorville, CA 92392			No Information
Victorville Chamber of Commerce 14174 Greentree Boulevard Victorville, CA 92392	Sally Martinez	(760) 245-6506	No Information
Victorville Museum 11873 Apply Valley Road Apply Valley, CA 92307	Walter Day Wayne Fowlie	(619) 240-2111	No Information

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
VICTORVILLE PRECISION BOMBING RANGE #14  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J04CA068001

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ORDNANCE AND EXPLOSIVES  
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- SECTION 2: NATIONAL CAPITAL REGION ARCHIVES RECORDS
  - PART A: POSITIVE FINDINGS
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FOR THE FORMER  
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SECTION I

BIBLIOGRAPHY

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B-1 Site Safety Plan For OEW Investigations, U.S. Army Corps of Engineers, Rock Island District, dated 25 June 1992. Appendix A-209, dated January 1998.

B-2 Mandatory Plan For Ordnance and Explosive Waste (OEW) Mandatory Center of Expertise (MCX) and Design Center, CEHND 1105-3-9, U.S. Army Corps of Engineers, Huntsville Division, dated 10 August 1992.

B-3 Defense Environmental Restoration Program for Formerly Used Defense Sites Ordnance and Explosive Waste ARCHIVES SEARCH REPORT MANUAL, Version 2.1, U.S. Army Corps of Engineers, Rock Island District, dated 28 February 1994.

B-4 Navsea OP 1664, U.S. Explosive Ordnance, Commander, Naval Sea Systems Command, dated May 1947 w/changes January 1969. (100 Pound Practice Bomb M38A2. D-1, Spotting Charge M1A1, D-2, Incendiary Bomb M47A1, D-3, 100 Pound Practice Bomb M85, D-4).

B-5 Ordnance Corps, Drawing, 82-0-23, Bomb Practice, 100LB, M38A2, Complete Assembly, 10 August 1955, (D-1).

B-6 Ordnance Corps, Drawing, 82-0-80, Bomb Smoke, 100LB, M47A4, Complete Assembly, 30 December 1948, (D-3).

B-7 Ordnance Corps, Drawing, 82-3-405, Bomb Smoke, 100LB, M47A4, Complete Assembly, 15 November 1946, (D-4).

B-8 Ordnance Corps, Drawing, 82-0-96, Bomb Smoke, 100LB, M47A4, Complete Assembly, 15 November 1946, (D-4).

B-9 Department of the Army Technical Manual, Bombs and Bomb Components, TM 9-1325-200 dated April 1966 (250 Pound Practice Bomb M124, D-5).

B-10 US Army Corps of Engineers, Los Angeles District, FDE, SSS, and PSS for Victorville Precision Bombing Range #14, dated 3 July 1991 (E-1).

B-11 Letter, United States Department of the Interior, Fish and Wildlife Service, Ventura Fish and Wildlife Office, Ventura California, Species list for the Former Victorville PBR, San Bernardino County, California, dated 19 December 1998 (F-1).

B-12 Letter, California Archeological Inventory, Archeological Information Center, San Bernardino County Museum, Redlands California, dated 11 November 1997 (F-2).

B-13 Letter, Soil Information, United States Department of Agriculture, Apple Valley, California, dated 17 November 1997 (F-3).

B-14 Computer Search, USGS, Ground Water Atlas of the United States-Segment 1 California Nevada, Ground Water Flow System, URL <http://water.wr.usgs.gov/gwatlas/basin/system.html> (F-4).

B-15 Public Land Order #125, California Withdrawing Public Land for use of the War Department as Bombing Target Sites, date April 1945, attached Clearance Certificate dated 22 March 1948 and attached Deduinding Report for Victorville Bombing Targets dated 4 February 1948, NARA Pacific Southwest Region, (F-5).

B-16 Report, History of Victorville Army Air Field, Victorville, California from 1 November to 31 December 1944, Range Maintenance /Ammunition Received, AFHRA, Maxwell AFB, AL Call NO. 289.40-8, IRIR 00179308 (F-6).

B-17 Land Acquisition and Disposal Report, Reproduction from the National Archives Pacific Region, Laguna Nignel Office, Not Dated (G-1).

B-18 Real Property Management and Disposal Report, dated June 1954, Reproduction from the National Archive Pacific Region, Laguna Nignel Office, (G-2).

B-19 Computer enhanced aerial photograph of PBR #14 date 1989, Photo supplied by the Department of Interior, US Geological Survey, EROS Data Center, Sioux Falls, South Dakota (K-1).

B-20 Drawing, Real Estate, Victorville Army Air Field bombing Ranges, dated September 1945, Reproduction from the National Archive Pacific Southwest Region, (L-1).

SECTION II

NATIONAL CAPITAL REGION ARCHIVES FINDINGS

PART A

POSITIVE FINDINGS

VICTORVILLE PRECISION BOMBING RANGE NO. 14, CA

SECTION II  
NATIONAL CAPITAL REGION ARCHIVES FINDINGS  
PART A  
POSITIVE FINDINGS

VICTORVILLE PRECISION BOMBING RANGE NO. 14, CA

Also Researched Under Barstow, CA; San Bernardino County, CA; Victorville Army Airfield; and George Air Force Base.

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Rolls B2647 thru B2649

Comprehensive History of Victorville Air Force Base, Victorville, California, 1 November 1945 -31 December 1948

Rolls B2647 thru B2649

Historical Record of Victorville Army Airfield, Victorville, California, From 1 March 1944 to 30 April 1944

Rolls B2647 thru B2649

Historical Record of Victorville Army Airfield, Victorville, California, From 8 December 1941 to 1 January 1943

Rolls B2647 thru B2649

Historical Record of 3035th A.A.F. Base Unit, Victorville Army Airfield, Victorville, California, From 1 May 1944 to 30 June 1944

Rolls B2647 thru B2649

Historical Record of Victorville Army Airfield, Victorville, California, From 1 January 1943 to 1 March 1944

Rolls B2647 thru B2649

Historical Record of Victorville Army Airfield, Victorville, California, From 1 January 1939 to 7 December 1941

Rolls B2647 thru B2649

Historical Record of Victorville Army Airfield, Victorville, California, 1 November 1944 to 31 December 1944

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Vol. XII (T-Z)  
Victorville, CA

***NARA - ARCHIVES II - TEXTUAL BRANCH  
COLLEGE PARK, MD***

RG 18 (Records of the Army Air Corps)

Entry 1: Security Classified File, 1944 - 1948

Box 288

Correspondence Relative to Proposed Additional Facilities Construction,  
Victorville Army Airfield, 7 November - 13 December 1944

Entry 1: Security Classified File, 1944 - 1948

Box 289

Tentative List of Stations for Planning on the Installation of Instruments  
Approach Systems, Army Air Forces Training Command

Entry 1: Security Classified File, 1944 - 1948

Box 292

Non-Use Report, Victorville Army Airfield, Including Detailed List of  
Facilities and Real Estate Data on Bombing Ranges, 1 October 1945

Entry 1: Security Classified Decimal File, 1944 - 1948

Box 558

Rolled Map, Army Air Forces Bombing and Gunnery Ranges within the  
Continental United States, 1 May 1945

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946

Box 2247

Memorandum Relative to Proposed Assignment of Victorville Precision  
Bombing Ranges to Fourth Air Force, 6 February 1946

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946

Box 2247

Memoranda Relative to Policy Regarding Decontamination of Bombing  
and Gunnery Ranges, 9 August - 19 September 1946

VICTORVILLE PRECISION BOMBING RANGE NO. 14, CA

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946  
Box 2248

Memorandum Relative to Bombing Range Status and Requirements,  
Victorville Army Airfield, 20 June 1944

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946  
Box 2281

Correspondence Relative to Status of Victorville Army Airfield,  
18 September - 4 October 1945

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946  
Box 2281

Memoranda Relative to Proposed Installation of Type E-1 Sonic Bomb  
Scoring Targets, Victorville Army Airfield, 27 March - 16 April 1945

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946  
Box 2281

Memoranda Relative to Proposed Hangar Modifications, Victorville Army  
Airfield, 30 March - 21 May 1945

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946  
Box 2795

Correspondence Relative to Army Air Force Installation in California,  
Washington, and Oregon, Victorville Bombing Ranges

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946  
Box 2798

Memoranda Relative to Declaration of Victorville Army Airfield as  
Excess Leased Property, 26 December 1946 - 18 February 1947

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946  
Box 2798

Memoranda Relative to Adverse Conditions, Including Presence of  
Unexploded Bombs at Victorville Army Airfield Bomb Targets,  
31 January - 27 February 1947

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946  
Box 2798

Memoranda Relative to Transfer of Surplus Victorville Army Airfield  
Bombing Targets to Custody of Chief of Army Corps of Engineers,  
10 July 1946 - 11 August 1947

VICTORVILLE PRECISION BOMBING RANGE NO. 14, CA

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946

Box 2798

Memorandum Relative to Reactivation of Victorville Army Airfield  
Bombing Targets, 16 January 1947

Entry 2: Air Adjutant General's Unclassified Decimal File, 1944 - 1946

Box 2798

Memoranda Relative to Real Property Disposal, Victorville Army  
Airfield, 5 June - 21 November 1947

Entry 292: Air Adjutant General's Unclassified Central Decimal File, Oct 1942 -  
1944

Box 1592

Rolled Map, Bombing Range Target, V.A.F.S., Victorville, CA

Entry 292: Air Adjutant General's Unclassified Central Decimal File, Oct 1942 -  
1944

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Correspondence Relative to Bombing and Gunnery Range Requirements,  
Victorville Army Airfield, 6 October - 13 November 1943

Entry 292: Air Adjutant General's Unclassified Central Decimal File, Oct 1942 -  
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Box 1641

Range Data, Victorville Army Airfield

Entry 294: Air Adjutant General's Security Classified Decimal File, Oct 1942 -  
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Real Property Utilization Report, Victorville Army Airfield, 2 August  
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Entry 294: Air Adjutant General's Security Classified Decimal File, Oct 1942 -  
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Real Property Utilization Report, Victorville Army Airfield, 4 September  
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Entry 294: Air Adjutant General's Security Classified Decimal File, Oct 1942 -  
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List, Post War Air Force Training Installations, Victorville Army Airfield

VICTORVILLE PRECISION BOMBING RANGE NO. 14, CA

Entry 295: Correspondence Relating to Airfields, 1939 - 1942  
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Memoranda Relative to Real Estate Acquisition and Construction  
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12 February 1942

Entry 295: Correspondence Relating to Airfields, 1939 - 1942  
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Memoranda Relative to Acquisition of Government Owned Land for  
Victorville Flying School Bombing Ranges, 3 February - 14 March 1942

Entry 295: Correspondence Relating to Airfields, 1939 - 1942  
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Correspondence Relative to Real Estate Acquisition, Victorville Army  
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RG 48 (Records of the Office of the Secretary of the Interior)

Entry 749B: Central Classified Correspondence, 1937 - 1953  
Box 3220

Memorandum Relative to Real Estate Acquisition, Victorville Precision  
Bombing Ranges, 1 April 1943

Entry 749B: Central Classified Correspondence, 1937 - 1953  
Box 3220

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Department as Bombing Target Sites, Victorville Precision Bombing  
Ranges, 24 April 1943

Entry 749B: Central Classified Correspondence, 1937 - 1953  
Box 3220

Letter Relative to Real Estate Acquisition, Victorville Precision Bombing  
Range No. 14, 21 April 1943

RG 77 (Records of the Office of the Chief of Engineers)

Entry 1011: Security Classified Subject Files, 1940 - 1945  
Box 855

Correspondence and Report Relative to Additional Facilities Construction,  
Victorville Army Airfield, 6 October 1944 - 31 March 1945

Entry 1011: Security Classified Subject Files, 1940 - 1945  
Box 855

Contract Documents, Victorville Military Airport Bombing Target  
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VICTORVILLE PRECISION BOMBING RANGE NO. 14, CA

Entry 1023: General Correspondence Relating to Airfields, Part II, Progress Reports, 1940 - 1945

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Construction Program at Air Corps Stations, Advanced Twin Engine School, Victorville, California, 1 - 15 June 1941

Entry 1023: General Correspondence Relating to Airfields, Part II, Progress Reports, 1940 - 1945

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Construction Program at Air Corps Stations, Advanced Twin Engine School, Victorville, California, 15 September 1941

Entry 1023: General Correspondence Relating to Airfields, Part II, Progress Reports, 1940 - 1945

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Construction Program at Air Corps Stations, Advanced Twin Engine School, Victorville, California, 30 September 1941

Entry 1023: General Correspondence Relating to Airfields, Part II, Progress Reports, 1940 -1945

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Construction Program at Air Corps Stations, Advanced Twin Engine Flying School - Victorville, California, 31 October 1941

Entry 1023: General Correspondence Relating to Airfields, Part II, Progress Reports, 1940 -1945

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Construction Program at Air Corps Stations, Advanced Twin Engine Flying School - Victorville, California, 31 January 1942

RG 107 (Records of the Office of the Secretary of War)

Entry 102: Office, Administrative Assistant to the Secretary of War, Project Decimal File, 1943 - 1946

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Correspondence Relative to Real Estate Acquisition, Victorville Army Airfield, 9 - 27 April 1943

RG 160 (Records of the Army Service Forces)

Entry 27: Mobilization Division, Command Installation, Correspondence File, 1942 - 1946

Box 19

Draft Circular, "Neutralization of Unexploded Ammunition and Duds"

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RG 341 (Records of Headquarters U.S. Air Force)

Entry 494: Correspondence Regarding AF Real Estate Facilities, 1948 - 1955  
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Correspondence Relative to Status of Victorville Air Force Base,  
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Entry 494: Correspondence Regarding AF Real Estate Facilities, 1948 - 1955  
Box 46

Letters Relative to Proposed Reactivation, Victorville Air Force Base,  
18 - 25 October 1948

Entry 494: Correspondence Regarding AF Real Estate Facilities, 1948 - 1955  
Box 46

Letters Relative to Status, Victorville Air Force Base, 19 April - 7 May  
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RG 429 (Records of the Organizations in the Executive Office of the President)

Entry 12: Central Real Property Surveys  
Box 47

Department of Defense Installation Survey Report, George Air Force  
Base, Victorville, California, 24 October 1973

***U.S. ARMY CORPS OF ENGINEERS - OFFICE OF HISTORY  
ALEXANDRIA, VA***

Real Estate Records

Realty Control File Summary Sheet  
Victorville Precision Bombing Range No. 14

SECTION II

NATIONAL CAPITAL REGION ARCHIVES FINDINGS

PART B

NEGATIVE FINDINGS

VICTORVILLE PRECISION BOMBING RANGE NO. 14, CA

SECTION II  
NATIONAL CAPITAL REGION ARCHIVES FINDINGS  
PART B  
NEGATIVE FINDINGS

VICTORVILLE PRECISION BOMBING RANGE NO. 14, CA

Also Researched Under Barstow, CA; San Bernardino County, CA; Victorville Army Airfield; and George Air Force Base.

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Historical Data Cards  
Posts, Camps, and Stations File

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WASHINGTON, DC***

US Department of the Interior, Geological Surveys

***LIBRARY OF CONGRESS - STILL PHOTOS DIVISION  
WASHINGTON, DC***

Divisional Catalogs  
Geographic Catalogs  
Habs/Haer  
Stereographic Catalogs  
Subject Catalogs  
Videodisk Collection

***NARA - ARCHIVES I  
WASHINGTON, DC***

RG 49 (Records of the Bureau of Land Management)  
Entry: Land Entry Papers

RG 69 (Records of the Works Progress Administration)  
Entry: Central Decimal Files, 1935 - 1944

RG 77 (Records of the Office of the Chief of Engineers)  
Entry 391: Construction Completion Reports, 1917 - 1943  
Entry 393: "Historical Record of Buildings" and "Record of Equipment and Condition of Buildings" at Active Army Posts, 1905 - 1942

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RG 153 (Records of the Office of the Judge Advocate General)

Entry: Reservations File, 1800 - 1950

RG 156 (Records of the Office of the Chief of Ordnance)

Entry 36: General Correspondence, 1915 - 1941

RG 162 (Records of the Federal Works Agency)

Entry 21: Records of the War Public Works Program, 1941 - 1949

RG 175 (Records of the Chemical Warfare Service)

Entry 1: Central Correspondence Files, 1918 - October 1942

Entry 4: Security and Confidential Central Correspondence Files, 1918 - 1942

RG 394 (Records of US Army Continental Commands, 1920 - 1942)

Entry: 9th Corps Area, Office of the Engineer

***NARA - ARCHIVES II - TEXTUAL BRANCH  
COLLEGE PARK, MD***

RG 16 (Records of the Department of Agriculture)

Entry 17: General Correspondence of the Office of the Secretary of Agriculture,  
1906 - 1975

RG 18 (Records of the Army Air Corps)

Entry 46: The Air Inspector, Decimal File, 1945 - 1947

Entry 293: Security Classified Central Decimal File, 1939 - 1942, Bulkies

Entry 293: Security Classified Central Decimal Files, 1939 - 1942, Series I

Entry 293: Security Classified Central Decimal Files, 1939 - 1942, Series II

RG 30 (Record of the Bureau of Public Roads)

Entry 54: Highway Traffic Advisory Committee to the War Department, 1941 -  
1945

RG 57 (Records of the United States Geological Survey)

Entry 27: Correspondence and Related Records, 1906 - 1945

RG 77 (Records of the Office of the Chief of Engineers)

Entry 106B: General Correspondence, 1918 - 1945

Entry 1014: General Correspondence with Divisions, 1941 - 1945

Entry 1015: General Correspondence with Districts, 1941 - 1945

RG 92 (Records of the Office of the Quartermaster General)

Entry 1892: Classified Geographic File, 1936 - 1945

Entry 1892A: General Correspondence (Geographic File), 1936 - 1945

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RG 96 (Records of the Farmers Home Administration)

Entry 3: Correspondence Relating to Participation in the Defense Program, 1940 - 1942

RG 107 (Records of the Office of the Secretary of War)

Entry 108: Secretary of the Army (Patterson), Central Decimal File, 1946 - 1947

Entry 110: Office, Administrative Assistant to the Secretary of War, Decimal File, February 1946 - June 1947

Entry 127: Office, Special Consultant to the Secretary of War, John D. Russell's File, 1942 - January 1946

Entry 159: Special Assistant for Construction, M. J. Madigan, Projects, 1940 - 1945

Entry 211: Office, Assistant Secretary of War for Air, Establishment of Airfields and Airbases, 1940 - 1945

Entry 212: Establishment of Airfields and Airbases, 1941 - 1945

Entry 213: Office, Assistant Secretary of War for Air, Robert A. Lovett, Decimal File, 1940 - 1946

RG 111 (Records of the Office of the Chief Signal Officer)

Entry 1036B: Historical Files, 1908 - 1962

RG 112 (Records of the Office of the Surgeon General)

Entry 31: Geographic Series, 1938 - 1942

Entry 32: Geographic Series (Formerly Security Classified), 1938 - 1941

RG 115 (Records of the Bureau of Reclamation)

Entry 7: General Administrative and Program Files, 1919 - 1945

RG 159 (Records of the Office of the Inspector General)

Entry 26D: General Correspondence, 1939 - 1947

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RG 160 (Records of Headquarters, Army Service Forces)

Entry 25: Director, Plans and Operations, Liaison and Control Branch, Subject File, 1942 - 1944

Entry 138: Readjustment Division, Central Decimal Files, 1943 - 1944

Entry 139: Readjustment Division, Central Decimal Files, March 1943 - 1946

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RG 165 (Records of the War Department General and Special Staffs)

Entry 258: Reports and Correspondence Relating to the Construction, Utilization, and Disposal of Army Installations, 1944 - 1947

Entry 484D: Federal Works Agency Project Files, 1940 - 1946

Entry 484E: Security Classified Federal Works Agency Project Files, 1942 - 1945

Entry 484G: Federal Agencies Branch, Airport Development Project Files, 1940 - 1942

Entry 484K: Civil Aeronautics Administration Airport Development Program, 1940 - 1945

RG 168 (Records of the National Guard Bureau)

Entry 344: State Decimal File, 1922 - 1945

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RG 175 (Records of the Chemical Warfare Service)

Entry 2A: General Correspondence, 1942 - 1947

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Entry 56B: Records Relative to Legislation, 1946 - 1954

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Entry: Series 1942 - 1959 (Geographic Files)

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Entry: Historical Program Files, 1940 - 1950

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RG 337 (Records of Headquarters, Army Ground Forces)

Entry 16A: General Staff, G-3 Section, Administrative Division, Subject Correspondence File, 1942 - 1947, Uniform and Equipment to Western Defense Command

Entry 25: Army Field Forces, Headquarters, General Staff, G-3 Operations Group, Organization and Equipment Division, General Decimal File, 1943 - 1948

Entry 55A: Ground Adjutant General Section, Records Division, Project Decimal File, March 10, 1942 - 1943, 1946 - 1947

Entry 57: General Headquarters, US Army Special Staff

Entry 57A: General Headquarters, US Army Project Files, 1940 - 1942

RG 338 (Records of US Army Commands, 1942 -)

Entry: Ninth Service Command

Entry: Posts, Camps, and Stations

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RG 340 (Records of the Office of the Secretary of the Air Force)

Entry 53: Air Coordinating Committee, General File, 1944 - 1950

RG 341 (Records of Headquarters, US Air Force)

Entry 336: Plans, Central Decimal File, 1942 - 1954

RG 342 (Records of US Air Force Commands, Activities, and Organizations)

Entry: "Sarah Clarke" Decimal Correspondence File

RG 407 (Records of the Adjutant General's Office, 1917 -)

Entry: Classified Project Decimal File, 1940 - 1950

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Entry 427: World War II Operations Reports, 1940 - 1948

RG 429 (Records of the Organizations in the Executive Office of the President)

Entry 17: Records of the Federal Property Council

***NARA - ARCHIVES II - CARTOGRAPHIC BRANCH  
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RG 18 (Records of the Army Air Corps)

RG 30 (Records of the Bureau of Public Roads)

RG 77 (Records of the Office of the Chief of Engineers)

RG 92 (Records of the Office of the Quartermaster General)

RG 145 (Records of the Agricultural Stabilization and Conservation Service)

RG 342 (Records of U.S. Air Force Commands, Activities, and Organizations)

RG 373 (Records of the Defense Intelligence Agency)

VICTORVILLE PRECISION BOMBING RANGE NO. 14, CA

***NARA - ARCHIVES II - MOTION PICTURE, SOUND, AND VIDEO BRANCH  
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RG 111 (Records of the Office of the Chief Signal Officer)

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COLLEGE PARK, MD***

RG 18 (Records of the Army Air Corps)

RG 30 (Records of the Bureau of Public Roads)

RG 77 (Records of the Office of the Chief of Engineers)

RG 92 (Records of the Office of the Quartermaster General)

RG 111 (Records of the Office of the Chief Signal Officer)

RG 165 (Records of the War Department General and Special Staffs)

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RG 77 (Records of the Office of the Chief of Engineers)

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Accession 077-53A-325

Accession 077-55A-323

Accession 077-57A-374

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PART A  
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**NARA, NATIONAL PERSONNEL RECORDS CENTER  
ST LOUIS, MO**

RG 18, Records of the Army Air Forces

Accession #342-47A4227

Box #06-23-58-9-5

Dwg, Regional Map of VAAF & Satellite Facilities, Sept. 1943

RG 342, Records of U.S. Air Force Commands, Activities, and  
Organizations

Accession #342-53A-4077

Box #06-23-58-9-3

Memo, Subj: Information Pertaining to Bombing Ranges, ACAFS,  
Army Air Base, Victorville, California, February 13, 1942

Memo, Subj: Victorville Army Flying School, Victorville,  
California - Contract No. W-509-Eng.-2196 - Bombing  
Targets - Notice of Completion and Release to Air Corps,  
April 16, 1942

Memo, Subj: Decontamination of Bombing and Gunnery Ranges,  
Oct. 10, 1946

Paper, Dedudding Report on Bombing Targets Formerly Assigned  
to Victorville Army Air Field, 25 Sep 1946

Accession #342-47A4227

Box #06-23-58-9-5

Memo, From 4196th AAF Base Unit to Sub-Station Sheriff's  
Office, San Bernardino County, Re: Removal of Bomb Scrap,  
19 August 1947

Memo, Status of Assignment of Bombing and Gunnery Ranges,  
25 June 1947

Memo, Subj: Removal of Military Scrap from Artillery,  
Bombing and Other Target Ranges, 6 August 1947

Memo, Subj: Status of Assignment of Bombing and Gunnery  
Range, Feb 19 1947

Memo, Subj: Teletype SBCON-2-2 dated 4 Feb 47, 10 Feb 1947  
Paper, Statistical Data Bombing Ranges, Victorville Army Air  
Field, (as Reflected by VAAF Records 11 March 1947)

**NARA, PACIFIC REGION (LAGUNA NIGUEL)  
LAGUNA NIGUEL, CA**

RG 77, Records of the Office of the Chief of Engineers

Accession #077-64J0445

Box #48

Memo, From ASF, HQ 9th Service Command to Commanding Officer, Camp Haan, Re: Movement of 65th Ordnance Bomb Disposal Squad to Victorville, 1 August 1945, w/Indorsements

Memo, Subj: Declaration as Excess, Auxiliary Installations of Victorville AAF, 7 Dec 1945, w/1st Ind, 28 Dec 1945

Memo, Subj: Withdrawal of Victorville Bombing Targets from Surplus, 20 Mar 1946 w/Indorsements

Memo, Subj: Withdrawal of Victorville Bombing Targets from Surplus, 15 Apr 1946

Memo, Subj: Transfer of Victorville AAF Bombing Targets, 18 Feb 1947

Accession #077-96-133

Box #27

Realty Control File Summary, Undated

Memo, Subj: Land Acquisition, Bombing Ranges for Victorville Army Flying School, 2 Sep 1942, w/Indorsements

Memo, Subj: Excess Bombing Targets, Victorville, 1 Feb 1946  
Warning Notice, Declaring Bombing Target 14 as Surplus

Property, 6 Feb 1946

Memo, Subj: Reclassification of Victorville Bombing Ranges, 18 Apr 1946

Memo, Subj: Transfer of Surplus Facilities, Pacific Div, No. 4197-3 (Victorville AAF), 11 Aug 1947

Memo, Subj: Disposal of Bombing Target Sites at Victorville AAF, 14 Aug 1947

Warning Notice, Declaring Bombing Target 14 as Surplus Property, 19 Aug 1947

Military Acquisition Project Report, Victorville PBR #14, w/Tract Register, 14 Nov 1947

Memo, Subj: Report of the Deduinding of Victorville Bombing Targets, San Bernardino County, 4 Feb 1948

Certificate of Clearance, Victorville Bombing Targets Nos. 3, 7, 10, 11, 12, 13, 14, 16, 17, 19, and 20, 22 Mar 1948

Memo, From Chief of Engineers to BLM, Re: Public Land Order No. 125, 1 Nov 1948

Real Property Management and Disposal Report, Victorville  
PBR #14, 1 Jun 1954  
Final Project Ownership Map, 3 Dec 1947  
Final Project Ownership Map, Victorville Bombing Ranges,  
19 Sep 1945  
Location Map, Victorville Bombing Targets, 27 Nov 1944

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VICTORVILLE PBR NO. 14

**NARA, PACIFIC REGION (LAGUNA NIGUEL)  
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RG 30, Records of the Bureau of Public Roads  
All Entries  
Nothing Found

RG 49, Records of the Bureau of Land Management  
All Entries  
Nothing Found

RG 71, Records of the Bureau of Yards and Docks  
All Entries  
Nothing Found

RG 77, Records of the Office of the Chief of Engineers  
Accession #077-96-0134  
Box #5  
Nothing of Value to this ASR Found

RG 92, Records of the Quartermaster General  
All Entries  
Nothing Found

RG 156, Records of the Chief of Ordnance  
All Entries  
Nothing Found

RG 219, Records of the Office of Defense Transportation  
All Entries  
Nothing Found

RG 269, General Records of the General Services Administration  
All Entries  
Nothing Found

RG 270, Records of the War Assets Administration  
All Entries  
Nothing Found

RG 336, Records of the Office of the Chief of Transportation  
All Entries  
Nothing Found

RG 338, Records of U.S. Army Commands  
All Entries  
Nothing Found

RG 342, Records of U.S. Air Force Commands, Activities, and  
Organizations  
All Entries  
Nothing Found

**NARA, NATIONAL PERSONNEL RECORDS CENTER  
ST LOUIS, MO**

RG 342, Records of U.S. Air Force Commands, Activities, and  
Organizations  
Accession #342-54A4118  
Box #06-38-18-1-1  
Nothing of Value to This ASR Found

Accession #342-46A4076  
Box #06-38-18-2-1  
Nothing of Value to This ASR Found

Accession #342-50A4042  
Box #06-38-18-1-3, 2 Boxes  
Nothing of Value to This ASR Found

**NARA, PACIFIC REGION (SAN FRANCISCO)  
SAN BRUNO, CA**

RG 18, Records of the Army Air Forces  
All Entries  
Nothing Found

RG 30, Records of the Bureau of Public Roads  
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RG 49, Records of the Bureau of Land Management  
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RG 77, Records of the Office the Chief of Engineers  
Accession #75Q1061  
Boxes #1-3  
Nothing of Value to This ASR Found

RG 92, Records of the Office of the Quartermaster General  
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RG 111, Records of the Chief Signal Officer  
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RG 112, Records of the Surgeon General (Army)  
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RG 121, Records of the Public Buildings Service  
Accession #9NSS-121-87-001  
Boxes #1 and 9  
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Accession #9NSS-121-85-004  
Box #72  
Nothing of Value to This ASR Found

RG 156, Records of the Office of the Chief of Ordnance  
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RG 219, Records of the Office of Defense Transportation  
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RG 269, General Records of the General Services Administration  
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Nothing Found

RG 270, Records of the War Assets Administration  
All Entries  
Nothing Found

RG 291, Records of the Federal Property Resources Service  
Accession #9NSS-291-93-002  
Box #19  
Nothing of Value to This ASR Found

RG 338, Records of U.S. Army Commands  
All Entries  
Nothing Found

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
VICTORVILLE PRECISION BOMBING RANGE #14  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J04CA068001

APPENDIX C

GLOSSARY

## APPENDIX C

### GLOSSARY

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AR	Army Regulation
AGGR	Air to Ground Gunnery Range
BD/DR	Building Demolition/Debris Removal
CAL	Caliber
CEHNC	U.S. Army Corps of Engineers, Engineering and Support Center, Huntsville
CEMVD	U.S. Army Engineer, Mississippi Valley Division
CEMVR	U.S. Army Engineer, Rock Island District
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CESAJ	U.S. Army Engineer, Jacksonville District
CON/HTW	Containerized Hazardous and Toxic Waste
CWM	Chemical Warfare Material
DA	Department of Army
DACS	Defense Ammunition Center and School
DERA	Defense Environmental Restoration Account
DERP	Defense Environmental Restoration Program
DMACSC	Defense Mapping Agency Customer Service Center
DOD	Department of Defense
DOI	Department of Interior
EE/CA	Engineering Evaluation Cost Analysis
EOD	Explosive Ordnance Disposal
FDE	Findings and Determination of Eligibility
FM	Field Manual
FUDS	Formerly Used Defense Site(s)
GSA	General Services Administration
HE	High Explosive
HTRW	Hazardous, Toxic and Radiological Waste
HTW	Hazardous and Toxic Waste
INPR	Inventory Project Report
IOC	Industrial Operations Command
IRP	Installation Restoration Program
NARA	National Archives Records Administration
NGS	National Geographical Service
OE	Ordnance and Explosives
PA	Preliminary Assessment
PBR	Precision Bombing Range
PD	Point Detonating
PN	Project Number
PRP	Privately Responsible Party
PSS	Project Summary Sheet
QASAS	Quality Assurance Specialist Ammunition Surveillance

GLOSSARY (CONT.)

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RA	Remedial Action
RAC	Risk Assessment Code
RD	Remedial Design
RD/RA	Remedial Design/Remedial Action
RE	Real Estate
SAA	Small Arms Ammunition
SARA	Superfund Amendments and Reauthorization Act
SFC	Sergeant First Class
SGT	Sergeant
SI	Site Inspection
SIOAC-ES	Army Material Command Ammunition Center for Explosive Safety
SSS	Site Summary Survey
TSQ	Timed Super Quick
USA	U.S. Army
USACE	U.S. Army Corps of Engineers
USATCES	U.S. Army Technical Center for Explosives Safety
USDA	United States Department of Agriculture
UXO	Unexploded Ordnance

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
VICTORVILLE PRECISION BOMBING RANGE #14  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J04CA068001

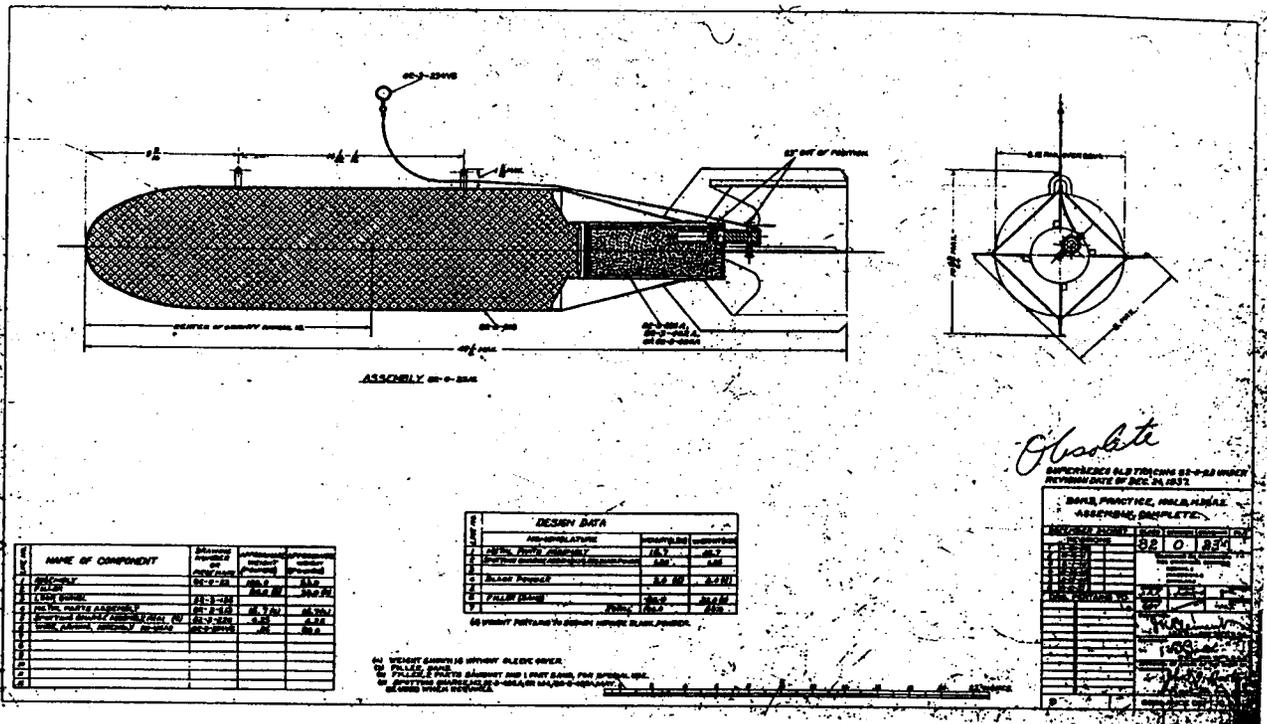
APPENDIX D  
TEXTS/MANUALS

APPENDIX D  
TEXTS/MANUALS

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- D-2 Spotting Charge M1A1 (B-4).
- D-3 Incendiary Bomb M47A1 (B-4, B-6, B-7, B-8).
- D-4 100 Pound Practice Bomb M85 (B-4).
- D-5 250 Pound Practice Bomb M124 (B-9).



**U. S. EXPLOSIVE ORDNANCE**

OP 1664

**100-pound M38A2**

- Over-all length, inches .....47.5
- Diameter, inches .....8.18
- Weight, empty, pounds .....15.7
- Weight, sand-loaded and spotting charge, pounds .....100

This bomb simulates a G.P. bomb of the same size. The spotting charge is assembled in a sleeve at the base of the bomb, within the fin box. Authorized spotting charges are M1A1, M8, and M4.

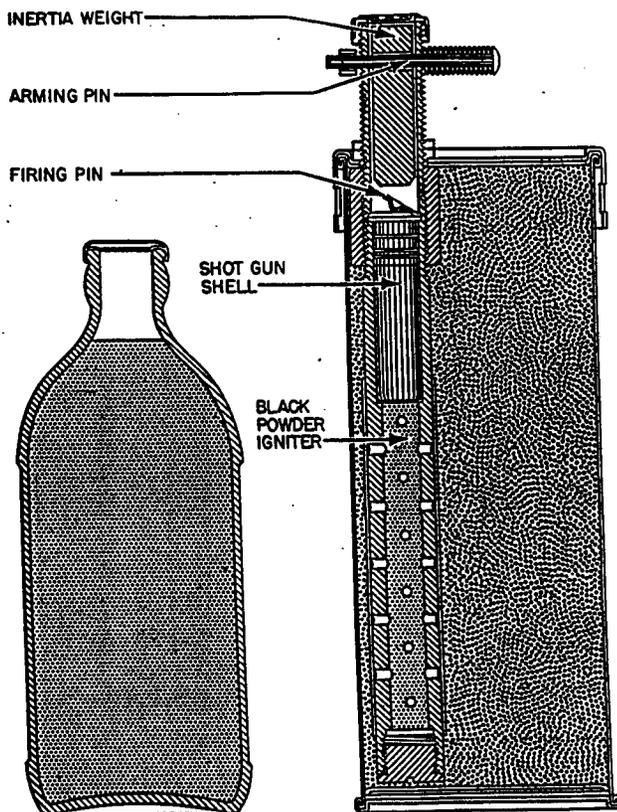


Figure 316. Spotting Charges M3 (right) and M5 (left)

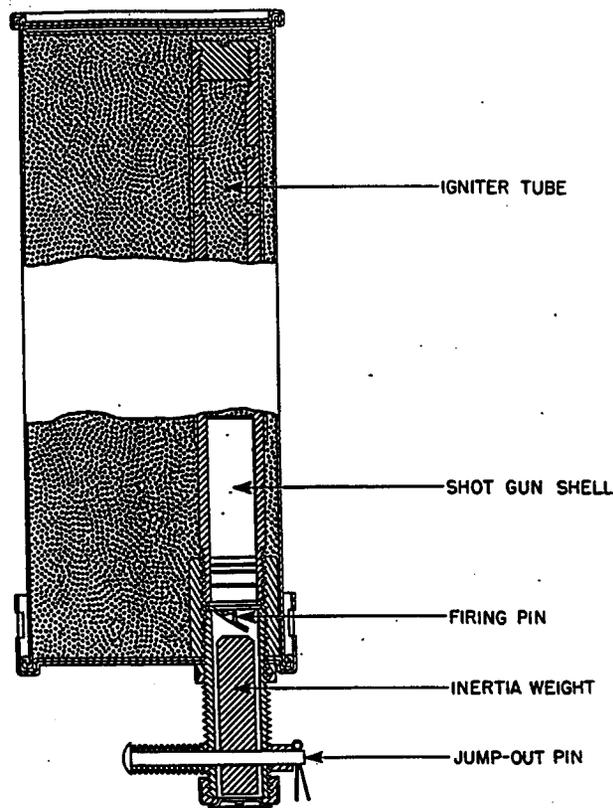


Figure 315. Spotting Charge M1A1

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### Spotting Charges (Army)

<b>M1A1</b>	
Over-all length, inches.....	11.18
Diameter, inches.....	3.43
Weight, pounds.....	4.25
Black-powder charge, pounds.....	3.0
Bomb used in.....	M38A2
Fuze.....	Integral inertia-type

This type of spotting charge fits in the after end of the 100-pound Practice Bomb M38A2. It produces a flash of flame and white smoke for observation of bombing accuracy. When assembled in the bomb, the can of the charge protrudes two to three inches out of the bomb body.

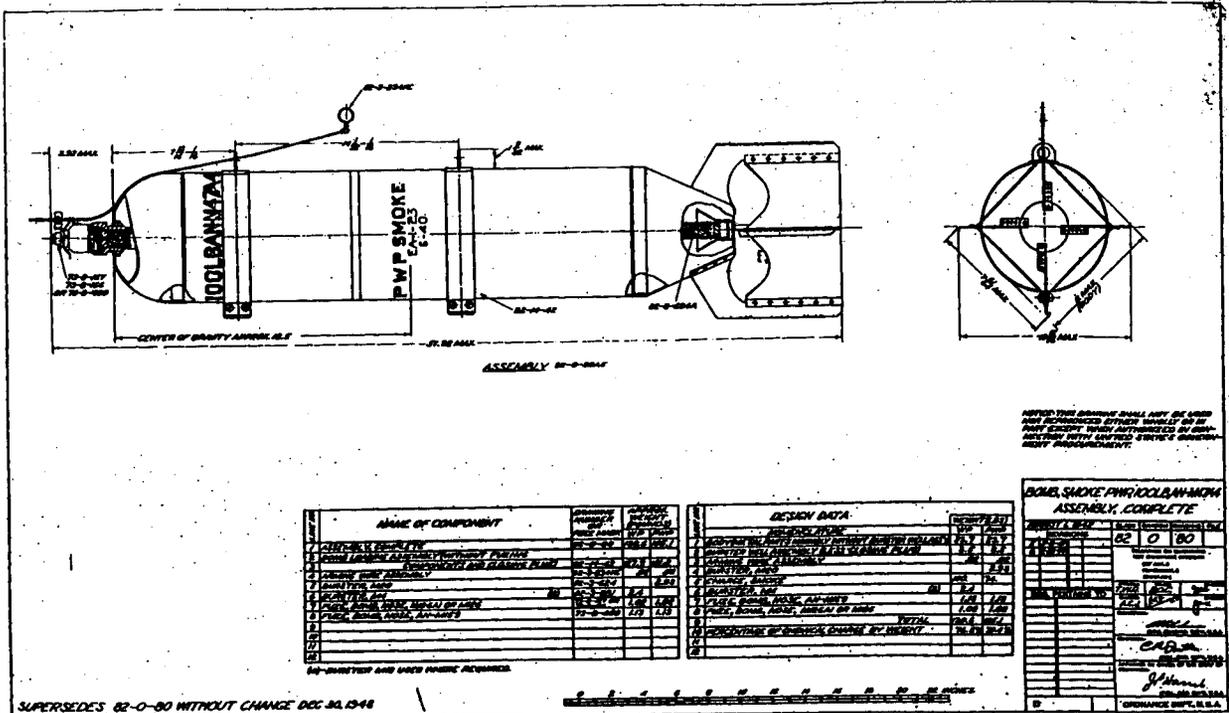
The fuze is an integral part of the spotting charge assembly. When the arming wire is pulled, the spring-loaded arming pin jumps out, leaving the inertia weight supported only by the combination firing pin and creep spring. On impact, the inertia weight drives this firing pin into the shotgun-type primer, which, in turn, ignites the black powder.

**M3:** The Spotting charge M3 has a 2 1/4-pound dark smoke filling and a black-powder igniter. It is 5/8 inch longer than the Spotting Charge M1A1, but otherwise is like it. The M3, with

its dark smoke filler, is well adapted for bombing practice over snow-covered terrain. The black-powder igniter charge contains approximately 425 grains. It is used in the Practice Bomb M38A2.

<b>M5</b>	
Over-all length, inches.....	7.37
Diameter, inches.....	2.95
Material .....	Glass
FS filler, fluid ounces.....	14.4

The Spotting Charge M5 consists of a glass bottle filled with FS smoke mixture. An ordinary bottle cap seals the mixture. The bottle is held to the Practice Bomb M38A2 by a wire twisted around the neck of the bottle and attached to the tail vanes. The charge assembly weighs 2.54 pounds.



U. S. EXPLOSIVE ORDNANCE

OP 1664

The AN-M69X incorporates a 4.5-ounce charge of tetryl to produce an anti-personnel effect. Over-all dimensions of the AN-M69X duplicate those of the AN-M69, but the amount of incendiary mixture is reduced (0.4 pound less). Operation of the Fuze M1 ignites a safety fuse lead terminating in the Detonator M106, which explodes the tetryl, fragmenting 65% of the bomb case after ejection of the incendiary material, following a pre-determined time delay of 0.5 to 6 minutes (30%—1/2 minute; 30%—2 minutes; 10%—6 minutes). The time delay is varied by adjusting the length of the safety fuse.

100-pound Incendiary AN-M47 Series

AN-M47A2	
Over-all length, inches.....	48.9
Body length, inches.....	39.0
Body diameter, inches.....	8.1
Wall thickness, inch.....	0.06
Tail length, inches.....	12.9
Tail width, inches.....	10.9
Filling.....	Mustard gas, W.P., or gasoline gel
Fuzing.....	M159, AN-M126A1, M126, M108, AN-M147

**Construction:** The bomb body is a sheet-steel tube with a longitudinal seam weld. The nose end is hemispherical. A base plate at the rear end is welded to the tube. Several bursters may be used interchangeably. The burster runs the length of the bomb. The Burster AN-M12 is a tube containing a 50-50 mixture of black powder and magnesium. The Burster AN-M13 is a tube containing TNT and tetryl pellets at each end, and is used in conjunction with the Igniter AN-M9 (WP or Na). The Na igniter will permit use over water. Four vanes are welded to a truncated cone with box-type interior struts to form the tail.

**Suspension:** Horizontal suspension is provided by two eyebolts formed by holes in each half of the two suspension bands, the halves then being crimped together to form a complete band. The bands are secured to the bomb body by tightening the bolts on the underside of the

body. One of the bands can be loosened and slipped to the center of gravity if single suspension is desired.

Two clusters are now standardized to provide single suspension for four to six bombs. The Cluster Adapter M24 holds six AN M17's, and the M22 has a capacity of four AN M17's.

**M47A2—Gas:** Loaded with 68.5 pounds of mustard gas. Complete round weighs 98 pounds. Inside of body is coated with oil. Equipped with Burster M1.

**M47A1—Gas:** Differs from the M47A2 only in that the interior is coated with black acid-proof paint instead of oil.

**M47—Chemical:** Original design, has wall thickness of only 1/32 inch. Not used for H filling.

**M47A2—Smoke:** Main filling is 100 pounds of white phosphorus, and total weight is 127 pounds. Burster M4 is authorized for high-altitude bombing; Burster M18 is authorized for low-altitude bombing. Burster M7 may be substituted for either.

**M47A1—Smoke:** Like M47A2—Smoke, with charge of 108 pounds WP and total weight of 129.5 pounds, and interior coated with black acid-proof paint.

**AN-M47A2 — Incendiary:** Loaded with 40-pound charge of gelled gasoline, either IM or NP, with total weight of 68.6 pounds. Burster AN-M13 and Igniter AN-M9 (WP or Na) authorized for this bomb.

**M47A1—Incendiary:** Like AN-M47A2, with interior coating of acid-proof paint instead of oil.

**AN-M47A3 — Incendiary:** Identical to AN-M47A2, except that tail assembly is three inches longer.

**AN-M47A4—Incendiary:** On this modification, the suspension lugs are strengthened.



2-53. Bomb, Practice: 250-Pound, M124

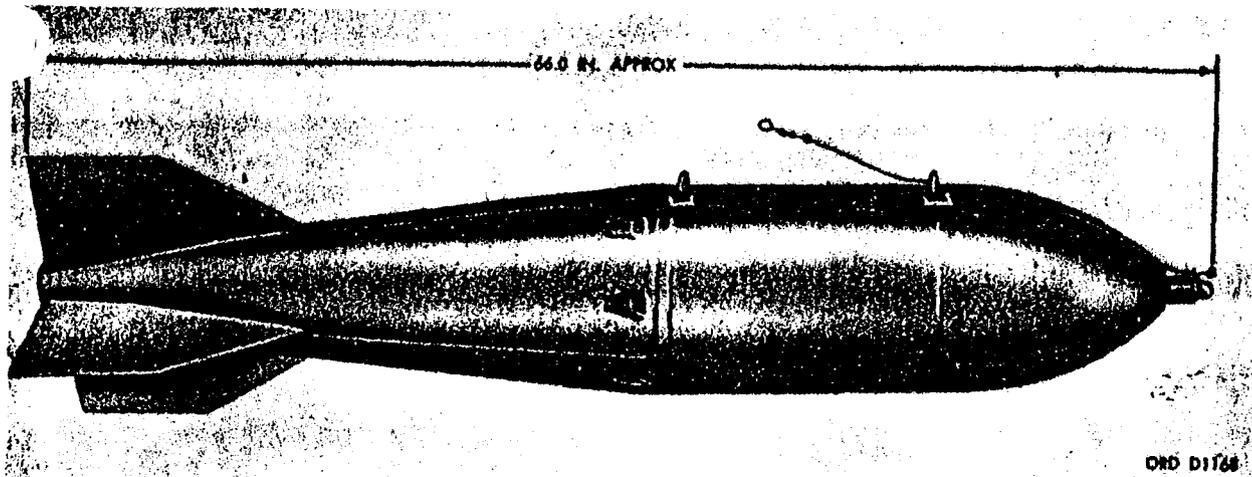


Figure 2-64. Bomb, practice: 250-pound, M124.

Table 2-51. Bomb, Practice: 250-Pound, M124

Model.....	M124
Length of Assembled Bomb (in.)	66.0
Diameter of Body (in.)	13.0
Weight of Complete Round (filled) (lb)	268.6
Weight of Filler (lb)	191.0
Fin Assembly.....	M140
"e.....	M193
"iter.....	M32
Spotting Charge.....	M39A1
Arming-Wire Assembly.....	M19

a. *Description.* Practice bomb M124 (fig. 2-64 and table 2-51) has a streamlined body equipped with a conical tail fin to provide good aerodynamic stability when dropped from high speed aircraft. This bomb is carried on internal racks in bombardment aircraft operating at high speed and/or high altitude. It is not authorized for external carriage. It is shipped and stored empty, but is filled with an inert filler consisting of 156 pounds of gravel and 35.1 pounds of concrete sand immediately prior to use. Normally, complete rounds are assembled as they are used.

b. *Components.* The external contour is a relatively clean form having low air resistance. The body and fin assembly (fig. 2-65) are constructed of light-gage sheet steel. The nose and body sections are welded together into a single unit. Two suspension lugs are placed 14 inches apart. The nose is closed by a hex-head closing plug. A screw-in cap closes the filler hole at the aft end of the bomb. The internal design of the bomb includes a small, hollow steel tube which runs lengthwise through the center of the bomb. It extends from the fuze well in the nose to the closing-cap adapter at the aft end. The tube is closed at the aft end with a cork or polyethylene shipping plug. This tube carries the primacord igniter from the nose fuze well back to the spotting charge in the tail fin when the bomb is assembled for use. Two internal reinforcement rings add rigidity to the bomb body. These rings are 14 inches apart, in locations corresponding to the position of the suspension lugs.

c. *Functioning.* Upon impact of the bomb with the target, the primacord is ignited. The burning primacord ignites the spotting charge in the tail fin, permitting observation of the bombing accuracy.

5-35. Charge, Spotting: M39A1

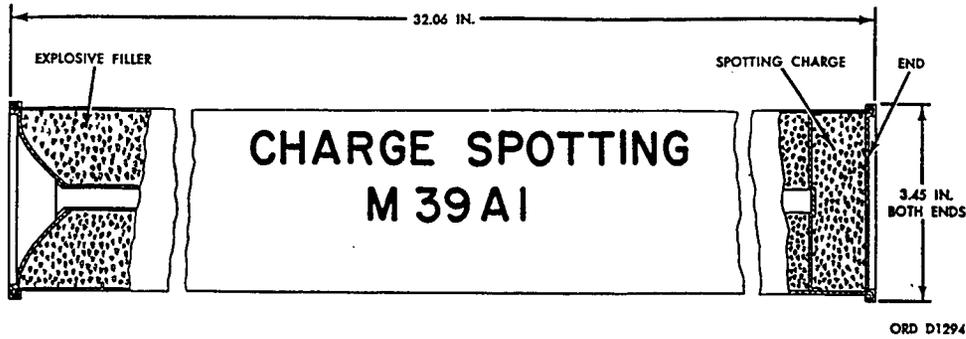


Figure 5-27. Charge, spotting: M39A1.

Table 5-28. Charge, Spotting: M39A1

Model.....	M39A1
Length of Assembly (in.).....	32.06
Diameter of Body (in.).....	3.45
Weight of Filler (lb).....	10.2

extending nearly through the center of the charge, and a tube guide which supports the tube. The container is closed at the rear by a felt pad and rear cover.

The M39A1 (fig. 5-27 and table 5-28) is authorized for use with the 250-pound practice bomb, M124. It contains a charge of approximately 10.20 pounds of 80-percent black powder and 20-percent flaked aluminum powder in a cylindrical terne-plate casing. A cover assembly consists of a funnel-shaped front cover (closing the forward end of the casing), a tube

d. Fuze, Bomb: Nose, M193.

- (1) *General.* Nose fuze M193, a modification of fuze AN-M158 (c above), is authorized for use in practice bomb M124. Nose fuze M193 differs in that it has a modified arming vane and a nose shield. The arming vane has a blade angle of 85°, instead of 60°, which enables the vane to withstand higher air speeds than the conventional vane. The nose shield, a domeshaped, aluminum shell which protects the striker from excessive air pressure at high speeds, is attached by drive screws to the vane nut. Pressure on the striker would prevent it from advancing relative to the fuze body and thus prevent the fuze from arming. The shield is provided with two inspection holes through which the position of the vane hub can be observed.

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
VICTORVILLE PRECISION BOMBING RANGE #14  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J04CA068001

APPENDIX E  
REPORTS/STUDIES

APPENDIX E

REPORTS/STUDIES

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E-1 FDE, SSS, And PSS for Victorville Precision Bombing Range  
#14, dated 3 July 1991 (B-10).

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
FOR FORMERLY USED SITES  
FINDINGS AND DETERMINATION OF ELIGIBILITY  
VICTORVILLE PRECISION BOMBING RANGE NO. 14  
BARSTOW, CALIFORNIA  
SITE NO. J09CA068000

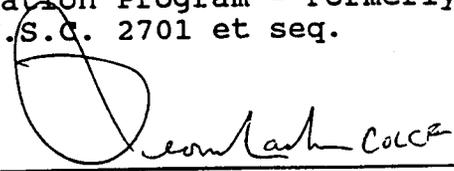
FINDINGS OF FACT

1. On May 20, 1943, the Department of Defense (DOD) acquired a total of 640.46 acres of Public Domain from the Department of Interior (DOI) through government agency transfer by means of Public Land Order No. 125.
2. Victorville Precision Bombing Range (PBR) No. 14 was used by the U.S. Army Air Force as a practice bombing range. The site was operated in conjunction with the Victorville Army Air Field (now the George Air Force Base). Site improvements consisted of the light oil on grade target outlines, frame butts and appurtenances, fences, and gates. There were no buildings or auxiliary facilities on-site.
3. On August 13, 1947, DOD declared the Victorville PBR No. 14 site, totaling 640.46 acres, as surplus to the War Assets Administration (WAA). The WAA authorized the retransfer of the property to DOI by letter dated August 13, 1947, and custody was relinquished on November 1, 1948. Public Land Order No. 948 dated March 29, 1954, partially revoked Public Land Order No. 125, thereby allowing DOI to officially assume custody of the property. In a letter to the Bureau of Land Management dated November 1, 1948, DOD indicated that the site was visually inspected and certified it to be free and clean of explosive ordnance. All detachable improvements were removed, and the concentric oil rings were allowed to deteriorate by weathering. DOD did not make any additional provisions for restoration. The property is currently maintained by the DOI Bureau of Land Management.

DETERMINATION

Based on the foregoing findings of fact, the site has been determined to be formerly used by DOD. It is therefore eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 U.S.C. 2701 et seq.

3 July 91  
Date

  
\_\_\_\_\_  
For ROGER F. YANKOUBE  
Brigadier General, U.S. Army  
Commanding

SITE SURVEY SUMMARY SHEET  
FOR  
PROJECT NO. J09CA068000

SITE NAME: Victorville Precision Bombing Range No. 14

LOCATION: Barstow, California

DESCRIPTION OF PROBLEM: None

SITE HISTORY: The Department of Defense (DOD) acquired the land from the Department of Interior (DOI) through a government agency transfer by means of Public Land Order No. 125 in 1943. Custody of the land was relinquished to DOI in 1948. The site remains as Public Domain and is vacant of structures or inhabitants. Current evidence of military activity on the site consists of scattered practice bomb fragments. However, this debris does not constitute an unsafe condition or hazard. There is no evidence of unsafe debris, hazardous or toxic materials, or unexploded ordnance resulting from DOD use of the site. State, county, and local agencies were contacted and have no records of any hazardous or toxic waste sites that are co-located or adjacent to the Victorville PBR No. 14 site.

AVAILABLE STUDIES AND REPORTS: None

CATEGORY OF HAZARD: Not applicable

BASIS FOR DETERMINATION OF DOD RESPONSIBILITY: Not applicable

POC/DISTRICT: Debra Castens, (213) 894-2865, Los Angeles District

STATUS: Currently, the property is maintained by the DOI Bureau of Land Management.

DESCRIPTION OF PROPOSED REMEDIAL ACTION: Not applicable

ESTIMATED COST: None

PROJECT SUMMARY SHEET  
FOR  
DERP-FUDS OE PROJECT NO. J09CA068000  
VICTORVILLE PRECISION BOMB RANGE NO. 14  
BARSTOW, CALIFORNIA  
SITE NO. J09CA068000

PROJECT DESCRIPTION: The Victorville Precision Bombing Range (PBR) No. 14 was used by the U.S. Army Air Corps as a practice bombing target for aircraft from the Victorville Army Air Field (now George AFB).

PROJECT ELIGIBILITY: The property has formerly been used by the U.S. Army Air Corps. No military improvements are known to have occurred. The site is nearly flat with about 24 feet of relief and is covered with light brush, and grass. The site is remote, undeveloped desert, covered with brush and visited by off-road vehicles.

POLICY CONSIDERATIONS: N/A

PROPOSED PROJECT: Recommend the Corp's Mandatory Center of Expertise (MCX) for OEW at the Huntsville Division make a determination if further action is appropriate.

RAC: Attached

DISTRICT POC: Request CEHNC inform Ms. Debra Castens at (213) 894-2865 when a determination is made regarding project status.

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
VICTORVILLE PRECISION BOMBING RANGE #14  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J04CA068001

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

APPENDIX F

LETTERS/MEMORANDUMS/ MISCELLANEOUS ITEMS

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F-1 Letter, Species list for the Former Victorville PBR, San Bernardino County, California (B-11).

F-2 Letter, California Archeological Inventory (B-12).

F-3 Letter, Soil Information (B-13).

F-4 Ground Water Information (B-14).

F-5 Public land order #125 dated April 1945, With Attachments. Clearance Report dated March 1948 and Dedudding Report dated February 1948 (B-15).

F-6 Report, History of Victorville Army Air Field, Victorville, California from 1 November to 31 December 1944 (B-16).



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

Ventura Fish and Wildlife Office  
2493 Portola Road, Suite B  
Ventura, California 93003

December 19, 1997

Director  
Defense Ammunition Center  
Attn: SIOAC-ESL (R.Hale)  
3700 Army Depot Road  
Savanna, Illinois 61074-9639

Subject: Species List for the Former Victorville Precision Bombing Range, San Bernardino County, California

Dear Mr. Hale:

This letter is in response to the Department of the Army's (DOA) request, dated November 10, 1997 and received by us on November 17, 1997, for information on listed, proposed, and candidate species that may occur in the vicinity of the former Victorville Precision Bombing Range in San Bernardino County, California. The Army's Defense Ammunition Center is assisting the U.S. Army Corps of Engineers in assessing formerly used defense sites for potential contamination by ordnance and explosives.

The threatened desert tortoise (*Gopherus agassizii*) occurs in the vicinity of the Victorville Precision Bombing Range. Critical habitat for the desert tortoise has been designated and portions of the bombing range occur within the Ord-Rodman critical habitat unit. No species proposed for listing or candidate species occur within the area of the bombing range.

This letter fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act of 1973, as amended (Act). If the subject project may affect a listed species, the DOA has the responsibility to prepare a biological assessment if the project is a construction project which may require an environmental impact statement<sup>1/</sup>. If a biological assessment is not required, the DOA still has the responsibility to review its proposed activities and determine whether the listed species will be affected.

During the assessment or review process, the DOA may engage in planning efforts, but may not make any irreversible commitment of resources. Such a commitment could constitute a violation of section 7(d) of the Act. If a threatened or endangered species may be affected, the DOA should request, in writing through our office, consultation pursuant to section 7 of the Act.

Informal consultation may be used to exchange information and resolve conflicts with respect to threatened or endangered species prior to a written request for formal consultation.

Should you have any questions, please contact Denise Washick of my staff at (805) 644-1766.

Sincerely,



Diane K. Noda  
Field Supervisor

---

<sup>1/</sup> "Construction Project" means any major Federal action which significantly affects the quality of the human environment designed primarily to result in the building or erection of man-made structures such as dams, buildings, roads, pipelines, channels and the like. This includes Federal actions such as permits, grants, licenses, or other forms of Federal authorizations or approval which may result in construction.



11 November 1997

Larry Dauphin, SIOAC-ESL  
Defense Ammunition Center  
3700 Army Depot Road  
Savanna, IL 61074-9639

Dear Mr. Dauphin,

Here is your record search for the formerly used defense sites in order of request. I checked the whole sections of all the areas even if your mapped APE did not cover it so that you would have a better idea of any cultural resources nearby. For a complete bibliography listed by NADB numbers, see the enclosed bibliography.

1) PBR N-3/PBR #44 USGS Hinkley 7.5' Quad

There are no recorded sites within T10N R3W Sec 8, however, there are two reports covering that area numbered NADB 1061035 & 1061479 in the bibliography. There are many prehistoric sites in the vicinity including Black & Inscription Canyon Rock Art District which is currently being nominated to the National Register.

2) PBR #3 USGS Fairview Valley 7.5' Quad

There are two lithic reduction sites in T6N R2W Sec 27, 28, 33, 34 designated SBR-2132 & SBR-2135. There are no reports recorded within the project area.

3) PBR #4 USGS Apple Valley South & Fifteenmile Valley 7.5' Quads

There are no recorded sites in T4N R2W Sec 5, 6, 7, 8. Two reports, 1060629 & 1062515, are inside the APE and four reports, 1060240, 1060900, 1060901 & 1062158, skirt the SE corner of Sec 8.

4) PBR #5 USGS West Ord Mtn 7.5' Quad (APE is not on USGS Stoddard Well)

There are no sites and no survey reports for T6N R1W Sec 4.

5) PBR #6 USGS Lucerne Valley & White Horse Mtn 7.5' Quads

There are no sites recorded For T5N R1W Sec 22, 23, 26, 27. One pipeline report, 1060046, passes through the APE.

6) PBR #9 USGS Fry Mtn & Grandview Mine 7.5' Quads

There are no sites and no surveys recorded for T5N R2E Sec 2, 3 & T6N R2E Sec 34, 35.

7) PBR #10 USGS Old Woman Springs 7.5' Quad

There is one lithic scatter, SBR-1883, and no reports recorded in the T4N R2E Sec 1, 12 & T4N R3E Sec 6, 7.

8) PBR #11 USGS Fry Mtn & Iron Ridge 7.5' Quads

There is one isolate on the Fry Mtn Quad and three isolates on the Iron Ridge Quad. All are flakes. Two reports cross the APE, 1060240 & 1063065.

- 9) PBR #12 USGS Melville Lake 7.5' Quad  
There are no sites recorded for T4N R4E Sec 5 & T5N R4E Sec 32, however, there are two reports, 1062257 & 1060956.
- 10) PBR #14 USGS Galway Lake & Iron Ridge 7.5' Quads  
There are no recorded sites in T6N R5E Sec 30, however, there is rock art recorded in the vicinity. Two reports, 1060701 & 1062257, are in the APE.
- 11) PBR #15 USGS Emerson Lake & Melville Lake 7.5' Quads  
There are no sites or surveys within T4N R5E Sec 30, 31. Report 1062257 is adjacent to the APE on the west.
- 12) PBR #16 USGS Emerson Lake & Melville Lake 7.5' Quads  
There are no sites in T4N R5E Sec 6 & T5N R5E Sec 31. There is one report, 1060956, on the Emerson Lake Quad.
- 13) PBR #19 USGS Joshua Tree North 7.5' Quad  
There is one pending military site dead center of T2N R6E Sec 26, 27 designated P1031-1H. A pending site is one that has not been formally recorded, but we have some information on. One report, 1061724, is in the APE.

None of these areas has been well surveyed, however, I noted "abandoned target" on some of the maps within the APE. Also, you might check the old George AFB records (previously known as Victorville Army Airfield) for more information. Someone talked to my father-in-law last year about some of the areas. He was stationed there in 1945-7.

If you have any further questions, please, call me at (909) 792-1497 Tuesday through Friday between 8 AM & 4 PM. Have a great day!

Sincerely,



Robin E. Laska  
Acting Coordinator



United States  
Department of  
Agriculture

Natural  
Resources  
Conservation  
Service

11/10.14  
18484 Highway 18, Suite 195  
Apple Valley, California 92307  
(760) 242-2906 ♦ Fax: (760) 242-0203

November 17, 1997

Mr. Larry M. Daupin  
Director, DAC  
3700 Army Depot Road  
Savanna, IL 61074-9639

Dear Mr. Daupin:

In response to your FAX requesting soils and aerial photography information for various PBR's I have enclosed individual map sheets and soils data for each. You were correct in that PBR's N-3, 3, 4, 5, and 6 are within the Mojave River Area Soil Survey which was issued in February 1986. I have enclosed the map sheets and soils descriptions for each of the soils within the PBR.

For the other PBR's, we do not have detailed soils data. The soils information for PBR's, nos. 9, 10, 11, 12, 14, 15, 16, and 19 was obtained from the General Soils Report of the Southwestern Desert Area of San Bernardino County, which was issued in June of 1970. Please keep in mind that the soils information from this survey is for general planning purposes and is not site specific. I've attached narrative soils descriptions for each of the PBR's noted on the soil survey map sheet for the General Soils Report.

As for aerial photography, we do have some photos which are infrared photos. These do not photocopy very well and I can not lend these photos out. However, you may want to contact the Mojave Desert RCD who has a color scanner which may be able to scan these photos for you at a nominal cost. Please contact Jackie Lindgren, District Coordinator, to find out cost information for scanning these photos.

Should you have any additional questions please do not hesitate to call me.

Sincerely,

Rick Aguayo  
District Conservationist

Enclosures

Group IV - Areas dominated by soils that have restricted depth.

~~Mohave-Adelanto~~ Mohave-Adelanto variants association, 0 to 15 percent slopes.

This association consists of well drained, moderately slowly permeable, sandy loams, moderately deep to deep to caliche, developed in stratified clay loam alluvium. The soils are on nearly level to strongly sloping terraces on slopes of 0 to 15 percent. Vegetation consists mostly of desert shrubs, annual forbs, and grasses. Elevations range from 2,000 to about 4,000 feet. Mean annual precipitation is 3 to 7 inches, mean annual air temperature is 66° F., and the frost-free season is 220 to 300 days. This association comprises about 16 percent of the Desert Area.

Mohave variant soils make up about 45 percent and Adelanto variant soils about 35 percent of the association. Sunrise (10 percent) and Cajon and Arizón (10 percent) soils comprise the remaining 20 percent.

Mohave variant soils have brown, platy, soft, mildly alkaline, sandy loam surface soils and reddish brown, prismatic, very hard, slightly acid, sandy clay loam subsoils. Adelanto variant soils have brown, granular, soft, moderately alkaline, sandy loam surface soils and reddish brown, blocky, slightly hard, moderately alkaline, sandy loam subsoils. These

soils overlie grayish brown, massive, very hard and extremely hard, moderately alkaline, calcareous, clay loam (caliche) substrata.

These soils are used mainly for recreation, urban, and wildlife. Limited grazing in some areas is possible when there is sufficient rainfall to produce forage. Urban uses are rapidly expanding around Adelanto, Apple Valley, Barstow, Hesperia, and Victorville.



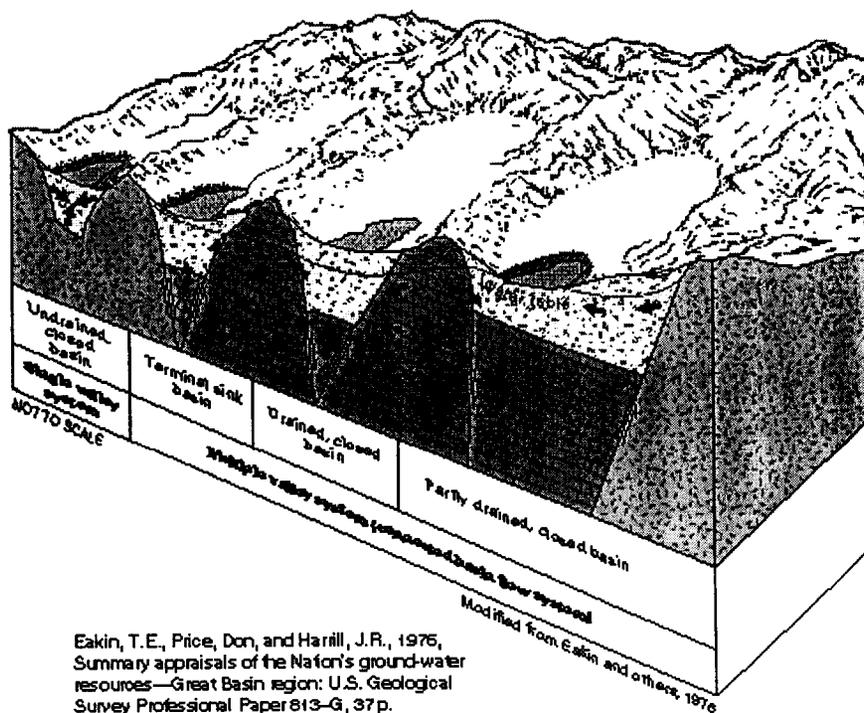
Ground Water Atlas of the United States - Segment 1 California Nevada

GROUND-WATER FLOW SYSTEMS

The ground-water flow systems of the Basin and Range area are in individual basins or in two or more hydraulically connected basins through which ground water flows to a terminal discharge point or sink. Except for relatively small areas that drain to the Colorado River, water is not discharged to major surface-water bodies but is lost solely through evapotranspiration. Each basin has essentially the same characteristics--the impermeable rocks of the mountain ranges serve as boundaries to the flow system, and the majority of the ground water flows through basin-fill deposits. In the area where carbonate rocks underlie the basins, substantial quantities of water can flow between basins--through the carbonate rocks and into the basin-fill deposits; but this water also is ultimately discharged by evapotranspiration. Most recharge to the basin-fill deposits originates in the mountains as snowmelt, and, where the mountain streams emerge from bedrock channels, the water infiltrates into the alluvial fans and replenishes the basin-fill aquifer. Intense thunderstorms may provide some direct recharge to the basin-fill deposits, but, in most cases, any rainfall that infiltrates the soil is either immediately evaporated or taken up as soil moisture; little water percolates downward through the unsaturated zone to reach the water table in the valleys. In mountain areas underlain by permeable carbonate rocks, most of the recharge may enter the carbonate rocks and little water remains to supply runoff.

Figure 25. Four types of basins have been identified in the Basin and Range area and are classified on the basis of differences in ground-water flow.

- EXPLANATION**
- Basin-fill deposits
  - Playa that receives ground-water discharge
  - Dry playa
  - Phreato phytes—Plants with roots that extend to water table
  - Low-permeability bedrock
  - Permeable bedrock
  - Direction of ground-water movement
  - Fault—Arrows show relative vertical movement



Eakin, T.E., Price, Don, and Harill, J.R., 1976, Summary appraisals of the Nation's ground-water resources—Great Basin region: U.S. Geological Survey Professional Paper 813-G, 37 p.

Because regional aquifers are not continuous within the Basin and Range area, the individual basins, which are encircled by topographic drainage divides, have been classified as one of four types based on similar recharge-discharge relations (fig. 25 and table 1). The simplest type is the "undrained, closed basin," a single valley in which the underlying and surrounding bedrock is practically impermeable and does not allow interbasin flow, and all recharge is discharged at a sink represented by a playa near the center of the basin. Basins underlain by permeable bedrock commonly are hydraulically connected as multiple valley systems. The "partly drained, closed basin" is underlain or

surrounded by bedrock that is moderately permeable and allows some ground water to flow out of the basin. In this type of basin, some water is evaporated or transpired at the upgradient side of a playa, but most of the water continues to flow past the downgradient side of the playa and leaves the basin. The "drained, closed basin" has a deep water table that prevents evapotranspiration. The bedrock is sufficiently permeable to allow all recharge to flow through it and out of the basin. The "terminal sink basin" is underlain or surrounded by bedrock that is sufficiently permeable to conduct flow into the basin, and the playa in the basin is the discharge point for recharge from several connected basins.

In some places, an existing or ancestral stream course connects several basins that are not closed. The individual basins connected by such streams can also be classified as partly drained, drained, or terminal sink.

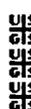
Examples of the individual type basins follow, except for the drained closed basin. With the exception that the water table in the drained closed basin is far below the playa, the partly drained and drained closed basins are sufficiently similar that discussion of each type is not warranted.

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[Back to "Basin-Fill Aquifers"](#) - [Forward to "Single, Undrained, Closed Basin"](#)  
[Back to Basin and Range aquifers "Contents"](#)  
[Ground Water Atlas Home Page](#)

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 [USGS Earth Resources of California](#)  
 [USGS Headquarters](#)  
 [USGS Water Resources - National](#)

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The URL for this report is <<http://water.wr.usgs.gov/gwatlas/basin/systems.html>>.  
For questions or comments regarding the USGS World Wide Web contact:  
<[Dale A. Cox](#)>

CALIFORNIA

C  
O  
P  
Y

WITHDRAWING PUBLIC LANDS FOR USE OF THE  
WAR DEPARTMENT AS BOMBING TARGET SITES

By virtue of the Authority vested in the President and pursuant to  
Executive Order No. 9337 of April 24, 1945: IT IS ORDERED, As follows:

Subject to valid existing rights, the public lands in the following-  
described areas are hereby withdrawn from all forms of appropriation under the  
public-land laws, including the mining and mineral-leasing laws, and reserved for  
the use of the War Department as bombing target sites:

San Bernardino Meridian

- |   |  |
|---|--|
| T. 5 N., R. 1 W.,<br>Sec. 22, E1/2SW1/4 and SE1/4:<br>Sec. 23, W1/2SW1/4:<br>Sec. 26, W1/2NW1/4:<br>Sec. 27, NE1/4 and E1/2NW1/4.           | T. 5 N., R. 2 E.,<br>Sec. 2, lot 4, SW1/4NW1/4:<br>Sec. 3, lots 1, 2, 3, S1/2NE1/4, and SE1/4NW1/4.                |
| T. 6 N., R. 1 W., Sec. 4.   | T. 6 N., R. 2 E.,<br>Sec. 34, E1/2SW1/4 and SE1/4:<br>Sec. 35, W1/2SW1/4.  |
| T. 4 N., R. 2 W.,<br>Sec. 5, SW1/4:<br>Sec. 6, SE1/4:<br>Sec. 7, NE1/4:<br>Sec. 8, NW1/4:   | T. 4 N., R. 3 E.,<br>Sec. 6, S1/2SW1/4 and SW1/4SE1/4:<br>Sec. 7, W1/2 NE1/4, NW1/4, N1/2SW1/4, and<br>NW1/4SE1/4. |
| * T. 6 N., R. 2 W.,<br>* Sec. 27, S1/2SW1/4:<br>* Sec. 28, S1/2SE1/4:<br>* Sec. 33, NE1/4 and N1/2SE1/4:<br>* Sec. 34, NW1/4 and N1/2SW1/4. | T. 6 N., R. 3 E.,<br>Sec. 35, E1/2:<br>Sec. 36, W1/2.  |
| T. 5 N., R. 3 W., Sec. 12.  | T. 3 N., R. 4 E., Sec. 6   |
| T. 6 N., R. 3 W., Sec. 21.  | T. 4 N., R. 4 E., Sec. 5, W1/2.  |
| T. 4 N., R. 1 E.,<br>Sec. 21, E1/2:<br>Sec. 22, W1/2.   | T. 5 N., R. 4 E., Sec. 32, S1/2.   |
| T. 5 N., R. 1 E.,<br>Sec. 3, SW1/4:<br>Sec. 4, SE1/4:<br>Sec. 9, NE1/4:<br>Sec. 10, NW1/4.  | T. 4 N., R. 5 E.,<br>Sec. 30, S1/2, unsurveyed.<br>Sec. 31, N1/2, unsurveyed.                                      |
| T. 4 N., R. 2 E.,<br>Sec. 1, SE1/4SE1/4:<br>Sec. 12, E1/2NE1/4 and NE1/4SE1/4.  | T. 6 N., R. 5 E., Sec. 30.   |
|   | T. 2 N., R. 6 E.,<br>Sec. 26, W1/2:<br>Sec. 27, E1/2.  |
|   | T. 4 N., R. 6 E., Sec. 29.   |
|   | T. 3 N., R. 6 E.,<br>Sec. 24, SE1/4:<br>Sec. 25, NE1/4.  |
|   | T. 3 N., R. 7 E.,<br>Sec. 19, SW1/4:<br>Sec. 30, NW1/4.  |

\* Lands covered by this report.

The areas described, including both public and non-public lands, aggregate 11,560.08 acres.

This order shall take precedence over, but shall not rescind or revoke, the withdrawal for classification and other purposes made by Executive Order No. 6910 of November 26, 1934, as amended, so far as such order affects the above-described lands.

It is intended that the public lands described herein shall be returned to the administration of the Department of the Interior, when they are no longer needed for the purpose for which they are reserved.

ABE FORTAS,  
Acting Secretary of the Interior

May 20, 1943.

( F. R. Doc. 43-8566; Filed, May 27, 1943; 9:34 a.m.)

#10

CERTIFICATE OF CLEARANCE

VICTORVILLE BOMBING TARGETS NOS. 3, 7, 10, 11, 12, 13, 14, 16, 17, 19, AND 20

22 March 1948

This is to certify that the areas known as Victorville Bombing Targets Nos. 3, 7, 10, 11, 12, 13, 14, 16, 17, 19 and 20, as shown on Real Estate Map of Victorville Army Air Force Bombing Ranges, Drawing No. 65-PP, were completely dedudded during the period from 20 October 1947 to 24 January 1948.

2360 dud practice bombs M38-A2 and 32 dud flare bombs, aircraft parachute M26, were found and destroyed during the course of the dedudding.

To the best of our knowledge and belief, the entire area covered by these 11 bombing targets is clear of all explosive or dangerous material and the land is safe for the purpose of grazing, mining or other agricultural purposes.

B. C. Hedrick  
B. C. HEDRICK  
Engineer, Civil  
Los Angeles District

JOSEPH P. SAINAPO  
1st Lt., C. E.  
9800th TSU-GE Det. #14  
Bomb & Shell Disposal Team  
Commanding

#14

WAR DEPARTMENT  
Office of the Chief of Engineers  
9800 TSU DETACHMENT NO. 14  
BOMB AND SHELL DISPOSAL TEAM      4 February 1948

SUBJECT: Report of the dedudding of Victorville Bombing  
Targets, San Bernardino County, California.

TO: Division Engineer  
South Pacific Division  
Corps of Engineers, War Dept  
Oakland Army Base  
Oakland 14, California.

1. The 9800th TSU-CE Detachment #14, Bomb & Shell Disposal Team was assigned the clearing of the Victorville Bombing Targets, Victorville, California under Surplus Real Estate Directive, South Pacific Division Number: 4892-3 and Los Angeles District Number 2364-3. This directive covers the dedudding of target Numbers: 3,7,10,11, 12, 13, 14, 15, 17, 19 and 20, a total of 7,022 acres. The dedudding of said targets began 20 October 1947 and were completed 24 January 1948.

2. Six laborers, hired through the Los Angeles District Engineers and the personnel of the Detachment made up the searching party. Two Project Engineers were also furnished by the Los Angeles District Engineers.

3. The total man hours, including civilian and Detachment labor, were 7176 hours. The total civilian field cost (salary, per diem and vehicle repairs) was \$7,547.

4. A team made up of one Project Engineer and one Sergeant from the Detachment surveyed and marked the boundaries of each range ahead of the search crew. The other Project Engineer, in conjunction with a Detachment Sergeant, controlled the search crew.

5. It is estimated that there is approximately 840 tons of scrap on subject targets.

6. The method of searching was as it has been in similar reported jobs. However, the immediate target areas were more heavily impacted and a large percentage of the bombs were buried or partially buried necessitating several passes of the search crew and considerable excavating. The excavating was done with non-sparking picks cutting down the danger of setting off a bomb by accidently digging into one.

7. All blasting was done after the searchers were out of the range or at a later date. The dud bombs were rid of by placing a sufficient size charge of Composition C-3 on them so as to explode the bomb or completely demolish it. After detonation the demolition men checked the surrounding area to see that the object in question had been destroyed.

8. A list of duds found and destroyed are given below:

- (a) 2,860 Bombs, Practice, M38-A2
- (b) 32 Bombs, Flare, Aircraft, Parachute, M26

9. I believe the 7,022 acres covered by this report to be free from explosive material for the purpose of grazing, mining and/or agricultural purposes.

10. The location of this area is designated by the enclosed map of:

Real Estate  
Victorville Army Air Field Bombing Ranges  
Drawing No. 65-FP  
State: California  
County: San Bernardino

JOSEPH P. SAINATO  
1st Lt., CE  
9800th TSU CE Det #14  
Bomb & Shell Disposal Team  
Commanding

HISTORY  
OF  
VICTORVILLE ARMY AIR FIELD  
VICTORVILLE, CALIFORNIA  
FROM  
1 NOVEMBER to 31 DECEMBER 1944

P.R.C.

00179308

DECLASSIFIED  
EO 11652

addition should enable the personnel to perform their duties at a higher standard.<sup>39</sup>

A great many combat returnees have been assigned to the Motor Repair Shop and Special Purpose Motor Pool. On-the-job training is being conducted for these men, as, in most cases, their previous experience was not in line with the functions of these departments.<sup>40</sup>

#### Bombing Range Maintenance

From 1 January 1944 to 31 December 1944, the Range Crew drove a total of 147,754 miles on VAAF target maintenance, with only one minor accident.<sup>41</sup>

Use of the series "N" targets has been discontinued, due to the completion of the Bombardier Training Program at this station.<sup>42</sup>

#### Field Lighting

There was no change of any kind in this department during the period 1 November 1944 through 31 December 1944.

39. Reminiscence, Major W.P. Maynard, Automotive Officer, VAAF, Victorville, Calif., 1 Jan 1945.
40. Reminiscence, Major W.P. Maynard, Automotive Officer, VAAF, Victorville, Calif., 1 Jan 1945.
41. Daily Report, Bombing Range Maintenance Office, VAAF, Victorville, Calif., 1 Jan 1944 to 31 Dec 1944.
42. Reminiscence, Capt. B. F. Magnusson, Bomb. Range Maintenance Officer, VAAF, Victorville, Calif., 1 Jan 1945.

### Section 3

#### Supply

#### Supervisor of Supply

During the months of November and December normal operations were maintained by all departments. Two major changes were effected, the first of which was the new exchanging procedure of worn out clothing and equipage. After much discussion between the Supervisor of Supply, Air Inspector Administrative, and the Commanding Officers of the several Sections, it was deemed advisable to set up a procedure whereby the individual enlisted man could turn in his worn out clothing and equipage direct to Classification for Army Replacement.<sup>43</sup> It is believed that this method of salvaging clothing and equipage will result in a considerable saving of manpower, as well as providing much quicker replacement of clothing which cannot be repaired.

Change of type of airplane used for the training program necessitated a complete new stock of parts. To accomplish this, personnel was sent to other stations having this type plane to study the supply problem so that proper stock level and suitable parts would be available when needed. Progress has been very satisfactory as a whole and very few planes have been grounded for lack of parts.

A few minor changes were made, the most important of which was the

43. Reminiscence, Capt. Joseph H. Berg, General Supply Officer, VAAF, Victorville, Calif., 1 Jan 1945.

change of supply point of quartermaster supplies. Under the provisions of Supplement #5, O.Q.M.G. Circular letter #84, dated 10 September 1944,<sup>44</sup> Mira Loma Quartermaster Depot ceased operating as a supply point for this station and was replaced by Utah Army Service Force Depot, Ogden, Utah. Although Ogden is approximately 550 miles from this base, in comparison to the 60 miles to Mira Loma, this department experienced no great inconvenience to date insofar as supplies are concerned.

Change in the procedure of individual issue record, as outlined in AAF Regulation 15-121<sup>45</sup> was made to the satisfaction of all concerned.

The establishment of the Preventive Line Maintenance in the Motor Repair Shop necessitated the remodeling of the Parts Supply Room. New and larger parts bins were built, enabling parts personnel to give more efficient service.

The Chemical Warfare Department was transferred from the jurisdiction of the Supervisor of Supply to the Deputy for Administration and Services, and the Base Chemical Officer was placed under the jurisdiction of the Deputy for Supply and Maintenance for supply purpose only.<sup>46</sup> This change became necessary in order to effect closer co-ordination with Troop Training, since the bulk of work of the Chemical Warfare Service Department lay in that field.

Training and Operations Supply was transferred from the jurisdiction

44. Ltr, QMSO, Utah ASF Depot, Ogden, Utah, 400.302, 15 Nov 1944, Subj: Quartermaster Supply, To: CO, VAAF, Victorville, Calif.
45. AAF Regulation 15-121, Hq AAF, Washington, D.C., 9 Nov 1944, Subj: Individual AAF Issue Record:
46. VAAF Policy No. 20-4, VAAF, Victorville, Calif., 23 Nov 1944.

of the Deputy for Training and Operations to the Deputy for Supply and Maintenance,<sup>47</sup> inasmuch as it was considered to be more closely related to supply functions rather than training.

Supply problems were met and overcome with a minimum of confusion. Among these problems is storing of classified radar equipment in the Communications Supply Warehouse. This necessitated a complete remodeling of the Communications Supply Warehouse to store the many items of this equipment. Armed guards have been placed on duty 24 hours a day to safeguard this equipment. A very serious storage problem is now in existence, and can only be remedied by the building of additional warehouse facilities. Work orders have been submitted to overcome this problem and have been forwarded to higher headquarters for approval. To date, no action has been forthcoming. With the inauguration of the new training program, a problem was encountered by the Training and Operations Supply in setting up and equipping a number of new offices due to the shortage of office equipment. The situation was met by improvising and redistribution as much as possible. The replacement of obsolete gas masks for the Chemical Warfare Service Supply is being made.<sup>48</sup> A survey of all personnel revealed that certain officers and enlisted personnel lacked this protective equipment, due to the fact that since they returned from theaters of operations many had their masks taken away from them.

47. Par 3, Memo Order No. 128, VAAF, Victorville, California, 28 Nov 1944.  
48. Ltr, ASF Depot, Ogden, Utah, 31 Oct 1944, Subj: Obsolescence and Disposal of Stockinette Gas Masks and Component, To: All Posts, Camps and Stations.

Requisitions for equipping and replacement has been made, and back orders are currently being filled. <sup>49</sup>

The Quartermaster Department was subjected to three inspections during the period. On 31 October 1944, under the provisions of AAF Regulation 120-6, an administrative inspection was made of the Quartermaster clothing section. The rating given was "very satisfactory." <sup>50</sup>

The records of this department were audited by the Ninth Service Command District Auditor during the first week of November. No discrepancy was found. The only irregularity discerned was the fact that postage stamps were being issued on property issue slips instead of on memorandum receipts. This was corrected during the audit, and the report sent forward stated that internal control was satisfactory. <sup>51</sup> The stock record section was inspected by the Quartermaster Control Officer, AAFWFTC, Santa Ana, California, on 16 and 17 November 1944. <sup>52</sup> This inspection was completed with a report to AAFWFTC, which evidenced that this section was operating in accordance with prescribed procedure.

Listed below are the statistics for the various departments.

49. Requisition from Chemical Warfare Office, VAAF, Victorville, Calif., To: CW Supply, Utah ASF Depot, Ogden, Utah, Property Files CWS, 24 Nov and 8 Dec 1944.
50. Ltr, Air Inspector, VAAF, Victorville, Calif., 3 Nov 1944, Subj: Administrative Inspection of QM Clothing, to: CO, VAAF.
51. Certificate of Audit, 682-45, ASF NSC District Auditor, Los Angeles, Calif., 15 Nov 1944, To: CO, VAAF, Victorville, Calif.
52. Ltr, General Supply, VAAF, Victorville, Calif., 16 Nov 1944, Subj: Quartermaster Stock Control Inspection at VAAF, To: CG, AAFWFTC, Santa Ana, Calif.

Air Corps Supply

1. Received 892,000 pounds of supplies.
2. Shipped 557,531 pounds of supplies.
3. Received and issued 1,890,123 gallons of gasoline.
4. Received and issued 24,174 gallons of oil.
5. Maintained approximately 15,000 stock record cards.
6. Processed 472 debit memorandum receipts.
7. Processed 405 credit memorandum receipts.
8. Initiated 40 purchase requests.
9. Submitted 1162 requisitions.
10. Processed 4,925 vouchers to the S/R account.
11. Average number of airplanes grounded daily for parts -  
November, 11; December, 16.

53

General Supply

1. Received 122,733 pounds of freight.
2. Shipped 20,048 pounds of freight.
3. Processed 929 Property Issue Slips.
4. Processed 136 property turn-in slips.
5. Issued 227 debit Memorandum Receipts.
6. Issued 188 credit Memorandum Receipts.
7. Submitted 96 requisitions for supplies.
8. Initiated 26 Purchase Requests, amounting to \$18,888.08. 54

Ordnance Supply

1. Bombs practice 100 #M38a2: Received 18,000.
2. Bombs chemical 100 #M47a2; Received 10,000.
3. Bombs concrete 100 #M85; Received 18,879. 55
4. Duds reported: .02% . 56
5. Expended 1500 Bombs practice 100 #M38A2.
6. Expended 8500 Bombs chemical 100 #M47A2. 57
7. Small Arms Ammunitions: Received 58 Expended 59

Cartridge, ball, cal.22 LR	0	13,500
Cartridge, ball, cal.45 M1911	3,500	29,710
Cartridge, ball, cal. 30 M1	2,581	4,800

53. Stock Records, Vouchers, Requisitions and Purchase Request Files, Air Corps Supply, VAAF, Victorville, Calif., 1 Nov thru 31 Dec 1944.
54. Vouchers to General Supply Stock Record Account, Requisition File, and Purchase Request File, VAAF, Victorville, Calif., 1 Nov to 31 Dec 1944.
55. Ordnance Debit Voucher File, VAAF, Victorville, Calif., 1 Nov to 31 Dec 1944.
56. Squadron Operations Forms, VAAF, Victorville, Calif., 1 Nov to 31 Dec 44.
57. Certificate of Expenditure, Bombs, Ordnance Office Credit Voucher File, VAAF, Victorville, Calif., Nov and Dec 1944.
58. Ordnance Debit Voucher File, VAAF, Victorville, Calif., Nov and Dec, 194
59. Property Issue Slip, Certificate of Expenditure, Ammunition, VAAF, Victorville, Calif., Nov and Dec 1944.

7. Small Arms Ammunitions (cont'd)	Received	Expended
Cartridge, ball, cal.50 1/2	10,528	0
Shell shotgun, No.00 buckshot, 12ga.	881	0
Shell shotgun, No.7 1/2 buckshot, 12ga.	3,500	0
Shell shotgun, No.8 chilled shot	35,000	53,000
Ammunition, blank, dbl. pellet, charge for 75 mm	10	37
8. Received sixty carloads of Ordnance Supplies.		<u>60</u>

	<u>Subsistence</u>	<u>October</u>	<u>November</u>
1. Rations issued		101,201	88,847
Value		\$ 50,590.22	\$ 55,677.03
2. Cash Sales		9,419.45	7,571.17
3. Charge Sales		43,422.71	44,519.19
4. Gasoline Sales		1,877.76	2,252.63
Federal Tax		312.99	572.14
State Tax		625.92	744.21
			<u>61</u>

	<u>Transportation</u>	<u>October</u>	<u>November</u>
1. Shipments received on Govt B/L		439	493
2. Total tonnage received		6,161,162	7,096,660
3. Carloads Received		17	44
4. Shipments made on Govt G/L		202	154
5. Total weight of outgoing shipments		540,647	371,309
6. Carload shipments made		8	3
7. ATC Air Freight shipments received		8,591	15,039
8. ATC Air Freight shipments made		2,485	5,328
9. Transportation requests issued		241	258
10. Army meal tickets issued		324	465
11. OFA Forms 594 and 595 issued		2,716	613
			<u>62</u>

Note: Reference is made to history for the period September and October; the statistics for Rail Transportation were for the months of August and September, instead of September and October.

60. Ordnance Debit and Credit Voucher files, VAAF, Victorville, Calif., Nov and Dec 1944.
61. Vouchers to the General Supply Subsistence Section Account, VAAF, Victorville, Calif., 1 Oct to 30 Nov 1944.
62. Govt. B/L Files, Demurrage Files, Meal Ticket File, Air Transport Command Feeder Air Freight Service Files, and Transportation Request Files, VAAF, Victorville, Calif., 1 Oct to 30 Nov 1944.

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
VICTORVILLE PRECISION BOMBING RANGE #14  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J04CA068001

APPENDIX G

REAL ESTATE DOCUMENTS

APPENDIX G

REAL ESTATE DOCUMENTS

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G-1 Land Acquisition and Disposal Report, Not Dated (B-17).

G-2 Real Property Management and Disposal Report, dated  
June 1954 (B-18).

Reproduced from the National Archives  
Pacific Region, Laguna Niguel Office

**SOUTH PACIFIC DIVISION HISTORICAL FILE SUMMARY**  
(Land Acquisition and Disposals Subsequent to 1 July 1940)

**RESERVATION NAME:**

1881

Victorville Precision Bombing Range No. 14, California

**OFFICIALLY DESIGNATED BY:**

**LOCATION:**

In San Bernardino County, 36 Miles Southeast of The Town of Barstow,  
California

**TYPE:**

Auxiliary to Victorville AAF

**LAND OWNERSHIP AND COST DATA**

**ACQUISITION ACTIONS:**

**DISPOSAL ACTIONS**

Exhibit "A"

**NET AREA:**

**GROSS COST:**

640.46 Acres, Transferred from Dept. of Interior,  
Total Area Acquired  
640.46 Acres, Relinquished to Dept. of Interior  
0.00 Acres 1 November 1948

\* P.L.O. No. 125,  
Dated 5/20/43

**JURISDICTION:**

**RELOCATIONS:**

**FINAL PROJECT MAP:**

See Final Audited Map File,  
And Exhibit "E"

**MISCELLANEOUS PAPERS:**

Exhibit "E"

**REMARKS:**

\*P.L.O. No. 125 revoked by P.L.O. No. 948 dated 3/29/54  
540.46 Acres by P.L.O. No. 125 retransferred to Department of the Interior by P.L.O. No. 948  
dated 29 March 1954  
DO NOT REMOVE OR ADD PAPERS TO THIS FILE



ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
VICTORVILLE PRECISION BOMBING RANGE #14  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J04CA068001

APPENDIX H  
NEWSPAPERS/JOURNALS

**Not Used**

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
VICTORVILLE PRECISION BOMBING RANGE #14  
VICTORVILLE, CALIFORNIA  
PROJECT NUMBER J04CA068001

APPENDIX I

INTERVIEWS

APPENDIX I

INTERVIEWS

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---

I-1 Conversation with Bill Meyers and Bob Hall, dated  
22 January 1998.

I-2 Conversation With MSGT Hepner and TSGT Glinka dated  
29 January 1998.

I-3 Conversation with CPT Grimes, 1SG Fortney and SFC Woods,  
dated 28 January 1998.

I-4 Conversation with Glenn Brook, dated 2 March 1998.

I-5 Conversation with Owen Cooper, dated 4 March 1998.

I-6 Conversation with Jerry Bronson, dated 23 January 1998.

<b>CONVERSATION RECORD</b>	<b>TIME</b> 0930 PST	<b>DATE</b> 22 January 1998
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TYPE

VISIT                       CONFERENCE

TELEPHONE  
INCOMING  
OUTGOING

<b>NAME OF PERSON CONTACT WITH</b> Bill Myers Bob Hall	<b>ORGANIZATION</b> San Bernardino Sheriff's Department	<b>TELEPHONE NO.</b> (401) 789-8347
--	--	--

**SUBJECT** Victorville Precision Bombing Ranges

**SUMMARY** Messrs. Hall and Myers are special detectives assigned to the San Bernardino Sheriff's Bomb Squad. Members of the assessment team met with the detectives at the Sheriff's Department. The detectives were shown a map of the Victorville bomb targets and were asked if any they had any knowledge of ordnance being discovered at these sites.

They explained that they receive over 200 calls per year regarding military munitions due to the large military presence in San Bernardino County. Most the munitions recovered have been moved a number of times before they are notified, so there is no way of determining the origin location of the ordnance.

Mr. Myers stated that a 5-inch rocket had been recovered in the vicinity of bomb target 6, 7 or 8. He was unable to identify which target contained the rocket, but he recalled seeing a number of fins sticking out of the ground.

He stated that a 100-lb. practice bomb was recovered from target 14 about seven years ago.

Mr. Myers stated that he had hunted in the area surrounding target N-3, but he did not notice any ordnance in that area.

**ACTION REQUIRED**

**ACTION TAKEN**

<b>NAME OF PERSON DOCUMENTING CONVERSATION</b> George Ofslager	<b>ORGANIZATION</b> CEMVR-ED-DO	<b>TELEPHONE NUMBER</b> (309) 794-6024
<b>SIGNATURE</b> 	<b>TITLE</b> QA Spec (Ammo)	<b>DATE</b> 22 January 1998

<b>CONVERSATION RECORD</b>	<b>TIME</b> 0845	<b>DATE</b> Thu 29 Jan 1998
----------------------------	---------------------	--------------------------------

TYPE

VISIT

CONFERENCE

TELEPHONE  
 INCOMING  
 OUTGOING

<b>NAME OF PERSON CONTACT WITH</b> MSGT Hepner TSGT Glinka	<b>ORGANIZATION</b> 95 <sup>th</sup> CEG/CED Edwards AFB, CA	<b>TELEPHONE NO.</b> (805) 277-2162
--	--	--

**SUBJECT**

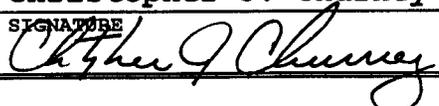
Victorville Precision Bomb Targets

**SUMMARY**

MSGT Hepner and TSGT Glinka have been with the 95<sup>th</sup> CEG/CED for a few months and 5 ½ years respectively. Although they have responded to OE incidents at George AFB (formerly Victorville AAF), neither could recall ever responding to OE incidents at any of the Victorville PBRs. Neither had any knowledge of any OE incidents occurring at the Victorville PBRs. Both stated the EODs at Fort Irwin would normally respond to any incidents in the area of the PBRs.

**ACTION REQUIRED**

**ACTION TAKEN**

<b>NAME OF PERSON DOCUMENTING COVERSATION</b> Christopher J. Churney	<b>ORGANIZATION</b> CEMVR-ED-DO	<b>TELEPHONE NUMBER</b> (309) 794-6011
<b>SIGNATURE</b> 	<b>TITLE</b> Chem Engineer	<b>DATE</b> 29 Jan 1998

<b>CONVERSATION RECORD</b>	<b>TIME</b> 0930	<b>DATE</b> Wed 28 Jan 1998
----------------------------	---------------------	--------------------------------

<b>TYPE</b>		
<input checked="" type="checkbox"/> VISIT	<input type="checkbox"/> CONFERENCE	<input type="checkbox"/> TELEPHONE
		<input type="checkbox"/> INCOMING
		<input type="checkbox"/> OUTGOING

<b>NAME OF PERSON CONTACT WITH</b> CPT Grimes, 1SG Fortney SFC Woods	<b>ORGANIZATION</b> 759 <sup>th</sup> EOD Ft. Irwin, CA	<b>TELEPHONE NO.</b> (760) 380-4092
--	---	--

**SUBJECT**  
Victorville Precision Bomb Targets

**SUMMARY**

CPT Grimes, 1SG Fortney and SFC Woods were questioned by the SI team whether they had any specific knowledge of OE presence at any of the Victorville PBRs. Neither of the 3 could recall the 759<sup>th</sup> responding to any OE incidents in the Victorville area. They had no knowledge any OE being discovered on any of the PBRs. SFC Woods referred the SI team to B.J. Allen, a former EOD in the COE San Diego Area Office, and the EODs at Edwards AFB.

**ACTION REQUIRED**

**ACTION TAKEN**

<b>NAME OF PERSON DOCUMENTING CONVERSATION</b> Christopher J. Churney	<b>ORGANIZATION</b> CEMVR-ED-DO	<b>TELEPHONE NUMBER</b> (309) 794-6011
<b>SIGNATURE</b> <i>Christopher J. Churney</i>	<b>TITLE</b> Chem Engineer	<b>DATE</b> 28 Jan 1998

<b>CONVERSATION RECORD</b>		<b>TIME</b> 11:00 AM	<b>DATE</b> 2 March 1998
<b>TYPE</b>			
<input type="checkbox"/> VISIT		<input type="checkbox"/> CONFERENCE	
		TELEPHONE	
		INCOMING	
		X OUTGOING	
<b>NAME OF PERSON CONTACTED</b> Glenn Brooks	<b>ORGANIZATION</b> Former Airman	<b>TELEPHONE NO.</b> (405) 732-8877	
<b>SUBJECT</b> Victorville PBRs			

**SUMMARY:**

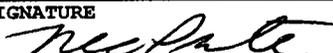
Mr. Brooks said that he was part of the initial enlisted cadre and arrived at Victorville AAF in September of 1941. He was in the aircraft maintenance branch and remembered working on the Beechcraft AT-7 and AT-11 as well as the Lockheed P-38. He said the P-38s arrived straight from the plant in early 1942. The P-38 pilots carried both .50 caliber and 20mm machine guns, but these were fired only at the Muroc Dry Lake range near what is now Edwards AFB.

He knew specifically of 4 Victorville AAF bombing ranges that were in dry lakes. He said there were large circles around the target center to assist the bombardier cadets. Mr. Brooks said the AT-11s were used for this training, and all they ever dropped were 100 lb sand filled bombs with a small smoke charge. As a maintenance man, he used to go up on some of the training missions. He was certain there were never any HE bombs or any kinds of rockets used when he was there. He added that the 100 lb practice bombs were stored out in the open, and that small arms and spotting charges were the only items stored in one small igloo on the AAF.

Mr. Brooks left Victorville AAF as a 2LT in April of 1943 and went on to spend an additional 30 years in the Air Force.

**ACTION REQUIRED**

None

<b>NAME OF PERSON DOCUMENTING CONVERSATION</b> Ronald Plante	<b>ORGANIZATION</b> CEMVR-ED-DO	<b>TELEPHONE NUMBER</b> (309) 782-1481
<b>SIGNATURE</b> 	<b>TITLE</b> QASAS	<b>DATE</b> 2 March 1998

<b>CONVERSATION RECORD</b>	<b>TIME</b> 1:00 PM	<b>DATE</b> 4 March 1998
----------------------------	------------------------	-----------------------------

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		<input type="checkbox"/> INCOMING
		<input checked="" type="checkbox"/> OUTGOING

<b>NAME OF PERSON CONTACTED</b> Owen Cooper	<b>ORGANIZATION</b> Former Bombardier Cadet	<b>TELEPHONE NO.</b> (410) 747-5991
--	---	--

**SUBJECT** Victorville PBRs

**SUMMARY:**

Mr. Cooper said that he joined the Army Air Forces as an aviation cadet but washed out of flight school and then trained as a bombardier. He was in class 43-3 at Victorville Army Air Field, graduating in March of 1943. He trained in the AT-11 and flew practice bombing missions to ranges all around the Victorville area, including some on the dry lake bed of Lake Lucerne (PBR #6). Mr. Cooper said all he ever dropped were 100 pound sand filled bombs with a spotting charge. He never saw an HE bomb at Victorville and was unaware of any other cadets dropping HE bombs. He recalled that the standard procedure was to drop one practice bomb on a target, and then follow specific compass headings to other targets to drop additional practice bombs one at a time.

After completing bombardier training, Mr. Cooper joined a B-17 crew for further training in Utah and eventually flew missions over Germany as a lead bombardier with the 91<sup>st</sup> Bomb Group.

**ACTION REQUIRED**  
None

<b>NAME OF PERSON DOCUMENTING CONVERSATION</b> Ronald Plante	<b>ORGANIZATION</b> CEMVR-ED-DO	<b>TELEPHONE NUMBER</b> (309) 782-1481
<b>SIGNATURE</b> <i>nee Plante</i>	<b>TITLE</b> QASAS	<b>DATE</b> 4 March 1998

<b>CONVERSATION RECORD</b>		<b>TIME</b> 8:00	<b>DATE</b> 23 Jan 98
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			<input type="checkbox"/> INCOMING
			<input type="checkbox"/> OUTGOING
<b>NAME OF PERSON CONTACT WITH</b> Jerry Bronson	<b>ORGANIZATION</b> BLM, Barstow Field Office	<b>TELEPHONE NO.</b> (760) 252-6075	
<b>SUBJECT</b> Former Victorville Bombing Ranges.			

**SUMMARY**

Mr. Bronson is the North Zone Supervisor for the Law Enforcement Rangers for the BLM, Barstow Field Office.

During discussion with Mr. Bronson, he made comments about finding ordnance items in the area close to Victorville target N-3. He also commented that the rangers have found ordnance items in the past (didn't remember exact locations) but, he commented that they never touched any of the items, they would always call the EOD unit at Fort Irwin to remove the items.

**ACTION REQUIRED**  
NONE

**ACTION TAKEN**  
NONE

<b>NAME OF PERSON DOCUMENTING COVERSATION</b> Jodi L. Bausman	<b>ORGANIZATION</b> CEMVR-ED-DO	<b>TELEPHONE NUMBER</b> (309) 794-6157
<b>SIGNATURE</b> <i>Jodi L. Bausman</i>	<b>TITLE</b> ENG. Tech.	<b>DATE</b> 23 Jan 98

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
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APPENDIX J

PRESENT SITE PHOTOGRAPHS

## APPENDIX J

### PRESENT SITE PHOTOGRAPHS

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J-1 Looking eastward toward the general location of PBR #14, approximately 3 mile away.

J-2 Looking northward across PBR #14, center of target is approximate 400 yard on the other side of the vehicle.

J-3 Looking at M38 bomb bodies buried in the sand on the east edge of Area A

J-4 Looking at the south side of target ring #3, Area A, showing rings still intact and easily found today.

J-5 Looking at an M85 Practice Bomb (Cement) found in the center ring at PBR #14, Area A.

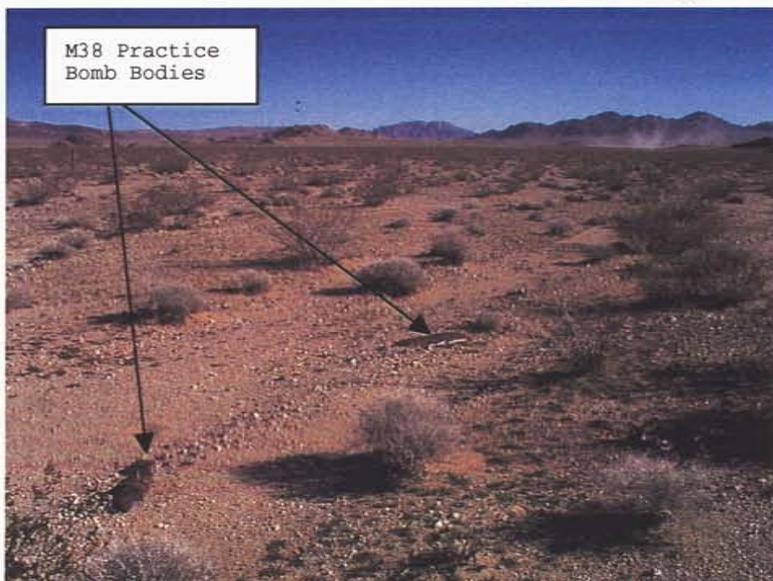
J-6 Looking at what's left of an M38 Practice Bomb, found in the center ring at PBR #14, Area A, (This was the closes to complete round found on this site, Spotting charge had functioned as it should have).

J-7 Mr. Holcombe pointing out some of the practice bomb parts found in Area B.

J-8 Looking at one of two M124, 250lb. practice bombs found on the outer ring of PBR #14, Area A.



**J-1** Looking eastward in the general direction of PBR #14 approximately 3 mile away.



**J-3** Looking at M38 practice bomb cases buried in the sand on the east edge of Area A.



**J-2** Looking northward across PBR #14, the center of the PBR is approximately 400 yards on the other side of the car.



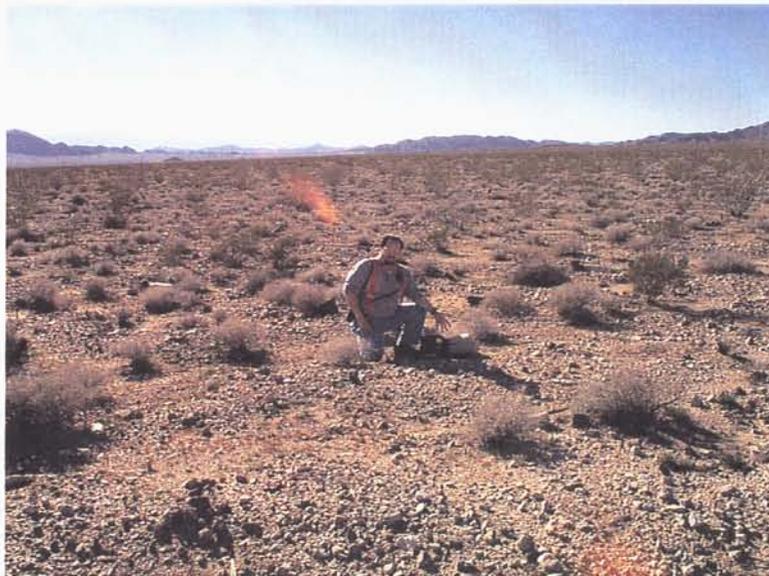
**J-4** Looking at the south side of the number 3 target ring at PBR #14, Area A.



**J-5** Looking at a M85 cement practice bomb found in the center ring at PBR #14, Area A.



**J-6** Looking at a M38 practice bomb found in the center ring of PBR #14, Area A.



**J-7** Mr. Holcombe (UXO Spec) pointing out some of the practice bomb parts being found in Area B.



**J-8** Looking at one of the two M124 250lbs. Practice bombs found on PBR #14 near the #3 target ring in Area A.

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APPENDIX K  
HISTORICAL PHOTOGRAPHS

APPENDIX K

HISTORICAL PHOTOGRAPHS

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K-1 Computer enhanced aerial photograph of PBR #14 date 1989  
(B-19).



#### **VICTORVILLE PRECISION BOMBING RANGE #14**

The above 1989 aerial photo has been enhanced to show the former precision bombing target #14 layout.

Precision bombing range #14 is located approximately 42 miles east of the town of Victorville, Ca. Located an additional 21 miles north east of state hiway 247 on gravel roads.

The former PBR lies in township 6 north, range 5 east, approximately in the center of section 30 and consists of approximately 640 acres. The Marine Corps Air Ground Combat Center borders the east side of the former PBR.

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APPENDIX L

REFERENCE MAPS/DRAWINGS

APPENDIX L

REFERENCE MAPS/DRAWINGS

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---

L-1 Drawing, Real Estate, Victorville Army Air Field bombing Ranges, dated September 1945 (B-20).

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APPENDIX M

ARCHIVES SEARCH REPORT CORRESPONDENCE

**Not Used**

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR THE FORMER  
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VICTORVILLE, CALIFORNIA  
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APPENDIX N

PROJECT AREA BIBLIOGRAPHY

**APPENDIX N  
PROJECT AREA BIBLIOGRAPHY**

<b>Document ID</b>	<b>Project Area(s)</b>	<b>OE Classification</b>	<b>Document Name</b>	<b>Document Date</b>	<b>Document Source</b>	<b>Description and Comments</b>
1	Area A	Contaminated	Public Land Order #125	1-Apr-45	NARA Pacific South West Region	Doc F-5. Attachment; Clearance Certificate dated 22 March 1948 and Dedudding Report dated 4 February 1948. States mentioned bombing ranges were completely dedudded during period 20 Oct 1947 to 24 Jan 1948. Area covered in this report free of explosive materials for the purpose of grazing, mining and or agricultural purpose.
1	Area B	Contaminated	Public Land Order #125	1-Apr-45	NARA Pacific South West Region	Doc F-5. Attachment; Clearance Certificate dated 22 March 1948 and Dedudding Report dated 4 February 1948. States mentioned bombing ranges were completely dedudded during period 20 Oct 1947 to 24 Jan 1948. Area covered in this report free of explosive materials for the purpose of grazing, mining and or agricultural purpose.
1	Area C	Potential	Public Land Order #125	1-Apr-45	NARA Pacific South West Region	Doc F-5. Attachment; Clearance Certificate dated 22 March 1948 and Dedudding Report dated 4 February 1948. States mentioned bombing ranges were completely dedudded during period 20 Oct 1947 to 24 Jan 1948. Area covered in this report free of explosive materials for the purpose of grazing, mining and or agricultural purpose.
2	Area A	Contaminated	History of Victorville AAF	1 Nov to 31-Dec-44	AFHRA Maxwell AFB, AL	Doc. F-6; Range Maintenance and Ammunition Received, Verified model numbers and types of ordnance used by Victorville AAF.
2	Area B	Contaminated	History of Victorville AAF	1 Nov to 31-Dec-44	AFHRA Maxwell AFB, AL	Doc. F-6; Range Maintenance and Ammunition Received, Verified model numbers and types of ordnance used by Victorville AAF.

**APPENDIX N  
PROJECT AREA BIBLIOGRAPHY**

<b>Document ID</b>	<b>Project Area(s)</b>	<b>OE Classification</b>	<b>Document Name</b>	<b>Document Date</b>	<b>Document Source</b>	<b>Description and Comments</b>
2	Area C	Potential	History of Victorville AAF	1 Nov to 31-Dec-44	AFHRA Maxwell AFB, AL	Doc. F-6; Range Maintenance and Ammunition Received, Verified model numbers and types of ordnance used by Victorville AAF.
3	Area A	Contaminated	Land Acquisition and Disposal Report	Not Dated	National Archives Pacific Region, Laguna Nignel Office.	Doc G-1; Acquisition Transfer Date, Relinquish Dates, Acreage and Location Information.
3	Area B	Contaminated	Land Acquisition and Disposal Report	Not Dated	National Archives Pacific Region, Laguna Nignel Office.	Doc G-1; Acquisition Transfer Date, Relinquish Dates, Acreage and Location Information.
3	Area C	Potential	Land Acquisition and Disposal Report	Not Dated	National Archives Pacific Region, Laguna Nignel Office.	Doc G-1; Acquisition Transfer Date, Relinquish Dates, Acreage and Location Information.
4	Area A	Contaminated	Real Property Management and Disposal Report	Jun-54	National Archives Pacific Region, Laguna Nignel Office.	Doc G-2; Surplus Date and Receiving Agency Acres and Location.
4	Area B	Contaminated	Real Property Management and Disposal Report	Jun-54	National Archives Pacific Region, Laguna Nignel Office.	Doc G-2; Surplus Date and Receiving Agency Acres and Location.
4	Area C	Potential	Real Property Management and Disposal Report	Jun-54	National Archives Pacific Region, Laguna Nignel Office.	Doc G-2; Surplus Date and Receiving Agency Acres and Location.
5	Area A	Contaminated	Aerial Photo	1989	Department of the Interior	Doc K-1; Computer Enhance to Show Target Layout.

**APPENDIX N  
PROJECT AREA BIBLIOGRAPHY**

<b>Document ID</b>	<b>Project Area(s)</b>	<b>OE Classification</b>	<b>Document Name</b>	<b>Document Date</b>	<b>Document Source</b>	<b>Description and Comments</b>
5	Area B	Contaminated	Aerial Photo	1989	Department of the Interior	Doc K-1; Computer Enhance to Show Target Layout.
5	Area C	Potential	Aerial Photo	1989	Department of the Interior	Doc K-1; Computer Enhance to Show Target Layout.
6	Area A	Contaminated	Drawing, Real Estate, Victorville AAF BR	Sep-45	National Archives Pacific Southwest Region	Doc L-1; Location of All Victorville AAF BRs
6	Area B	Contaminated	Drawing, Real Estate, Victorville AAF BR	Sep-45	National Archives Pacific Southwest Region	Doc L-1; Location of All Victorville AAF BRs
6	Area C	Potential	Drawing, Real Estate, Victorville AAF BR	Sep-45	National Archives Pacific Southwest Region	Doc L-1; Location of All Victorville AAF BRs

ORDNANCE AND EXPLOSIVES  
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APPENDIX O  
DISTRIBUTION

APPENDIX O

DISTRIBUTION

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Commander, U. S. Army Corps of Engineers Los Angeles District, Attn: CESPL-ED-MI ATTN: (Boghossian) 911 Wilshire Blvd. Los Angeles, Ca 90017	1		
Commander, U. S. Army Corps of Engineers Los Angeles District, Attn: CESPL-CO-SS (Walker) 10845 Rancho Bernardo Road, 2nd Floor Suite 200, Room 204 Rancho Bernardo, CA 92127	1		
Director, U.S. Army Defense Ammunition Center ATTN: SIOAC-ESL Savanna, Illinois, 61074-9639	3		

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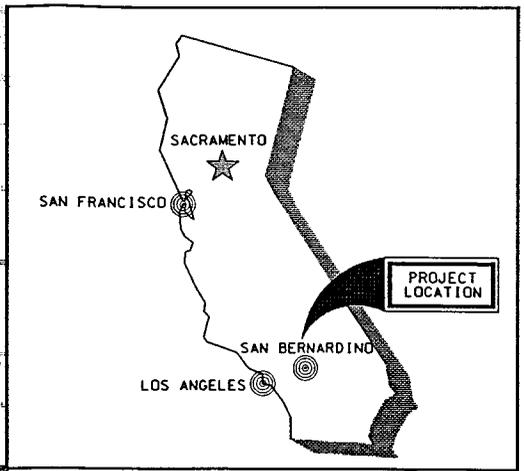
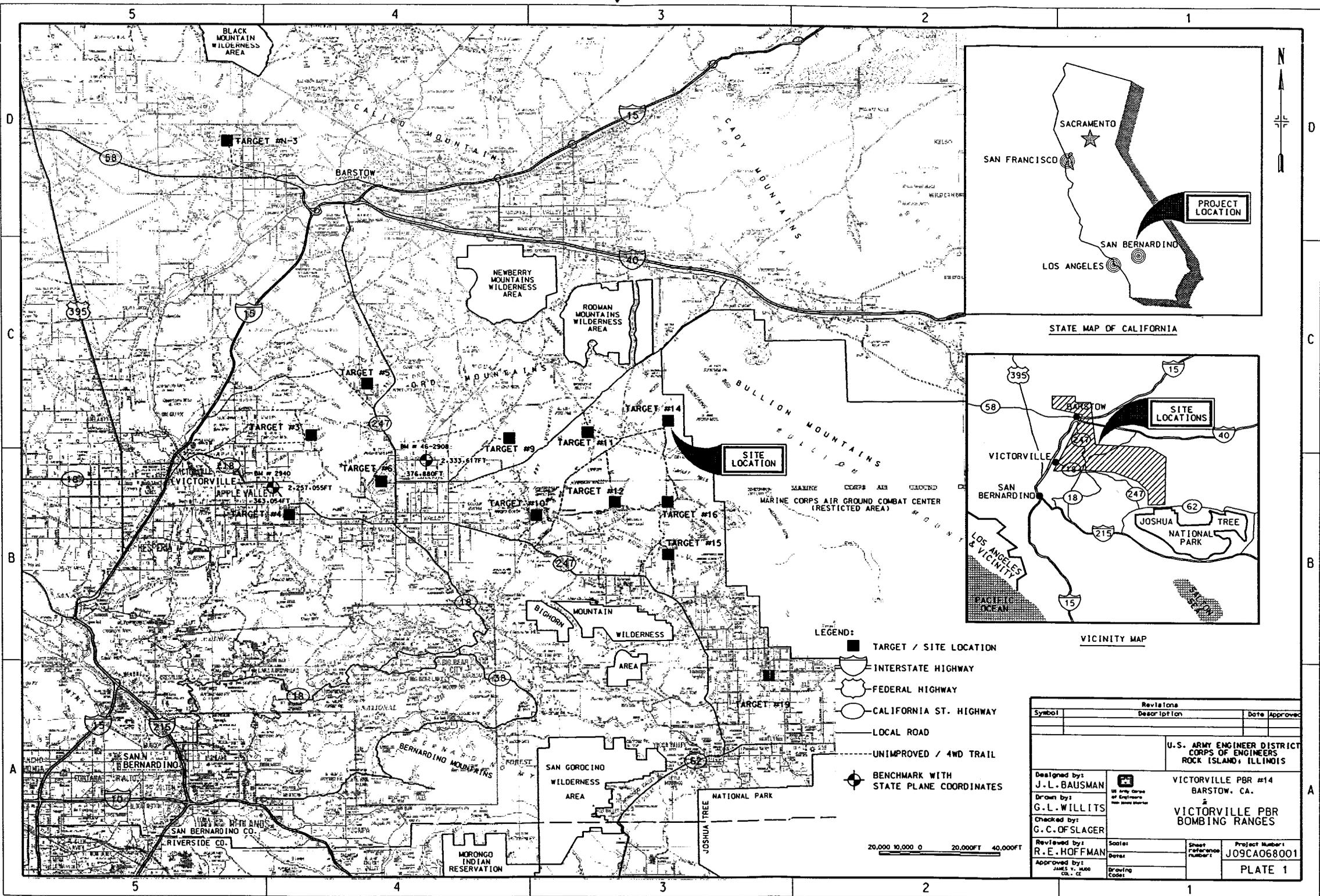
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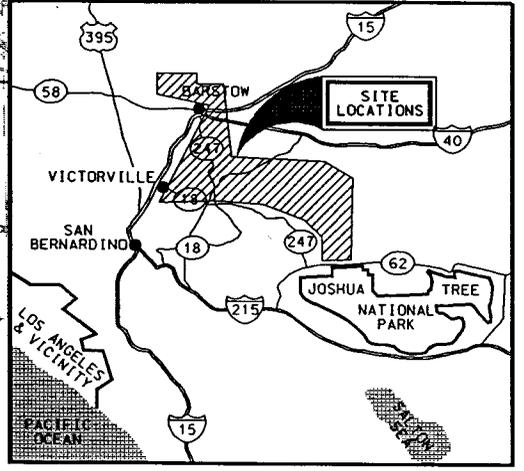
I - Final Report  
II - Findings Report  
III - Routed Final Report

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
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VICTORVILLE PRECISION BOMBING RANGE #14  
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PLATES



STATE MAP OF CALIFORNIA



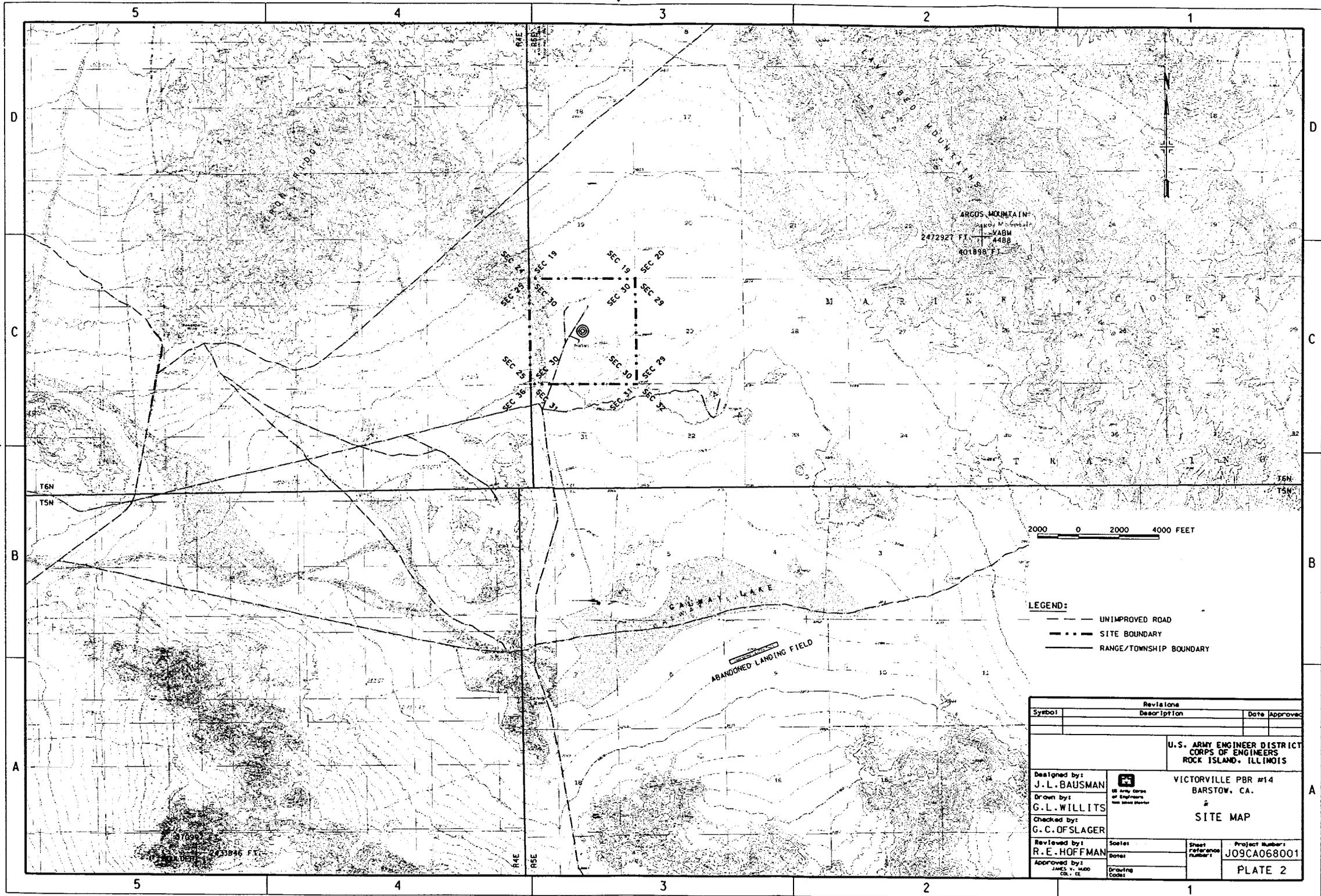
VICINITY MAP

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  - CALIFORNIA ST. HIGHWAY
  - LOCAL ROAD
  - - - UNIMPROVED / 4WD TRAIL
  - ⊕ BENCHMARK WITH STATE PLANE COORDINATES

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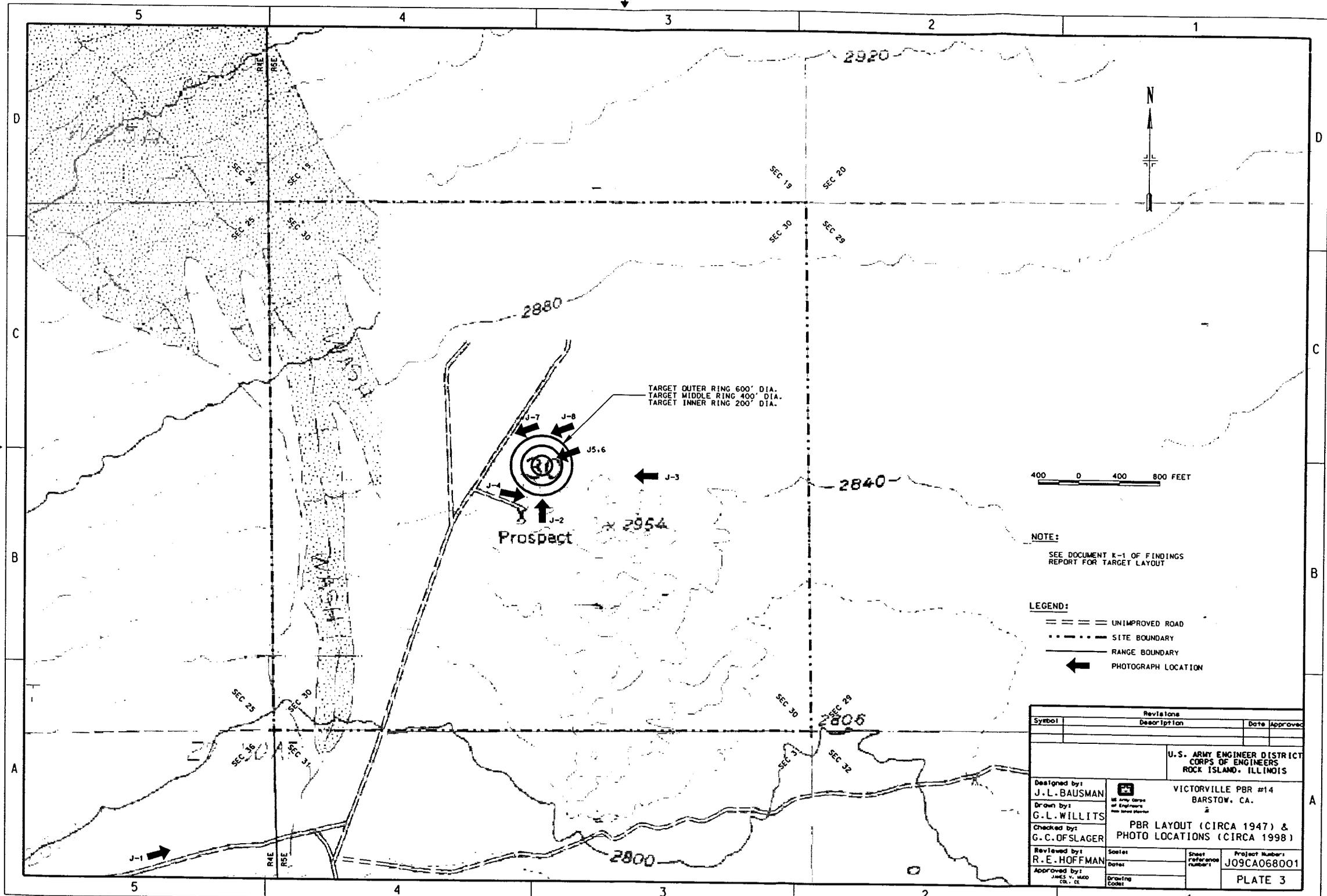
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Designed by: J. L. BAUSMAN		VICTORVILLE PBR #14 BARSTOW, CA.	
Drawn by: G. L. WILLITS		VICTORVILLE PBR BOMBING RANGES	
Checked by: G. C. OF SLAGER			
Reviewed by: R. E. HOFFMAN	Scale:	Sheet Reference Number:	Project Number: J09CA068001
Approved by: JAMES W. MOON COL., CE	Date:	Drawing Code:	PLATE 1



**LEGEND:**  
 - - - UNIMPROVED ROAD  
 - - - - - SITE BOUNDARY  
 - - - - - RANGE/TOWNSHIP BOUNDARY

Revisions		Date Approved	
Symbol	Description		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: <b>J. L. BAUSMAN</b>	 G. L. WILLITS <small>Professional Engineer No. 10000</small>	VICTORVILLE PBR #14 BARSTOW, CA.	
Drawn by: <b>G. L. WILLITS</b>		2 <b>SITE MAP</b>	
Checked by: <b>G. C. DFSLAGER</b>	Scale:	Sheet reference number:	Project Number:
Reviewed by: <b>R. E. HOFFMAN</b>	Dates:		<b>J09CA068001</b>
Approved by: <b>JAMES V. MCGO</b> Col. CE	Drawing Code:		<b>PLATE 2</b>

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TARGET OUTER RING 600' DIA.  
 TARGET MIDDLE RING 400' DIA.  
 TARGET INNER RING 200' DIA.

Prospect

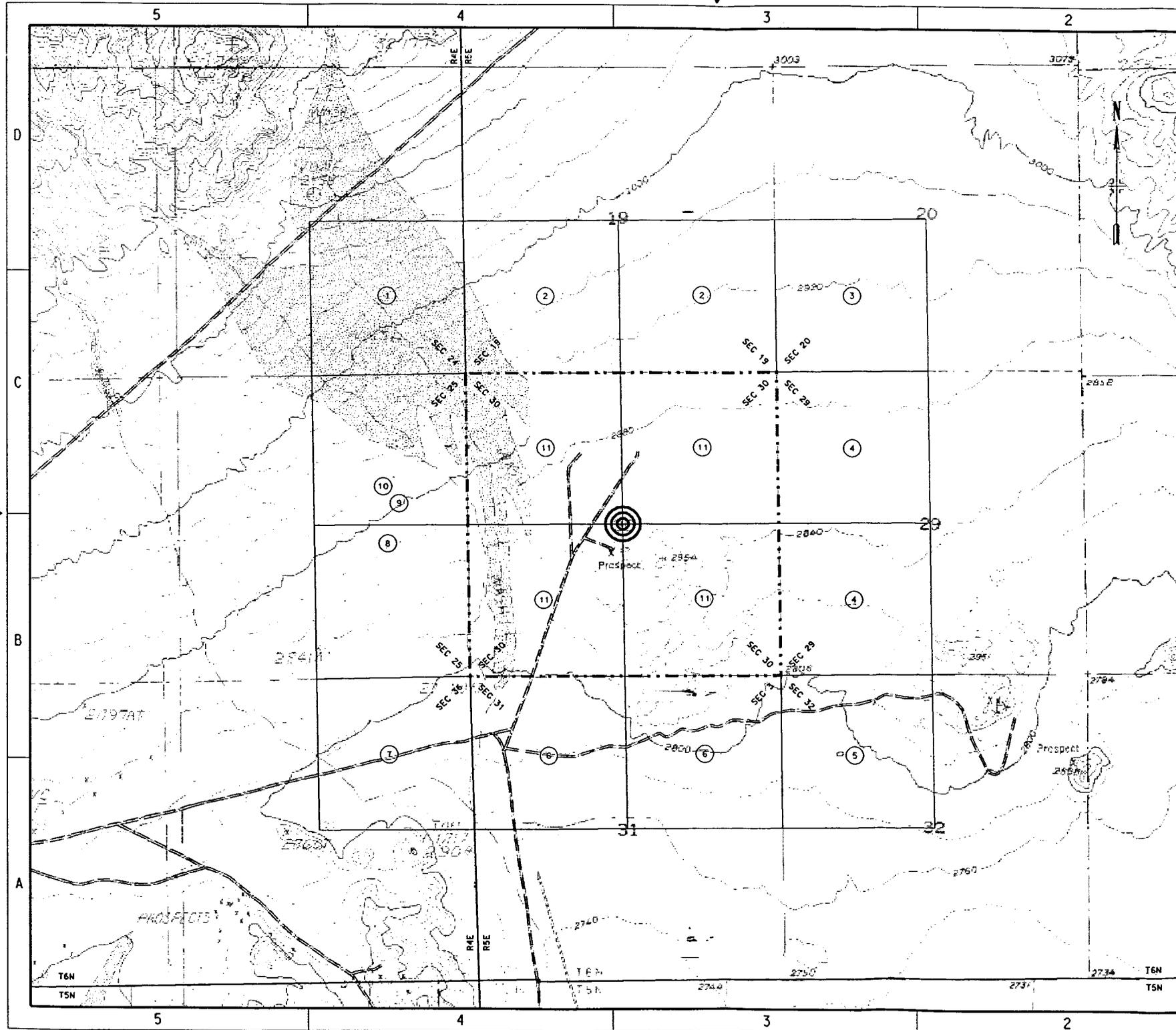
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 SEE DOCUMENT K-1 OF FINDINGS  
 REPORT FOR TARGET LAYOUT

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  - ← PHOTOGRAPH LOCATION

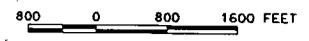
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Drawn by: G. L. WILLITS		2			
Checked by: G. C. OFSLAGER		PBR LAYOUT (CIRCA 1947) & PHOTO LOCATIONS (CIRCA 1998)			
Reviewed by: R. E. HOFFMAN		Scale:		Project Number:	
Approved by: JAMES V. HAD CO. 1		Sheet Reference Number:		J09CA068001	
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OWNERSHIP SUMMARY		
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⑧	RUBY SWEZY	240.00
⑨	PERRY CUNNINGHAM HOLCOMB	160.00
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- LEGEND:**
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  - - - - SITE BOUNDARY
  - RANGE BOUNDARY

Revisions		Date		Approved	
Symbol	Description				
<b>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS</b>					
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Drawn by: <b>G. L. WILLITS</b>					
Checked by: <b>G. C. OF SLAGER</b>					
Reviewed by: <b>R. E. HOFFMAN</b>					
Approved by: <b>[Signature]</b>		Sheet Reference Number: <b>JO9CA068001</b>	Project Number: <b>PLATE 5</b>		

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